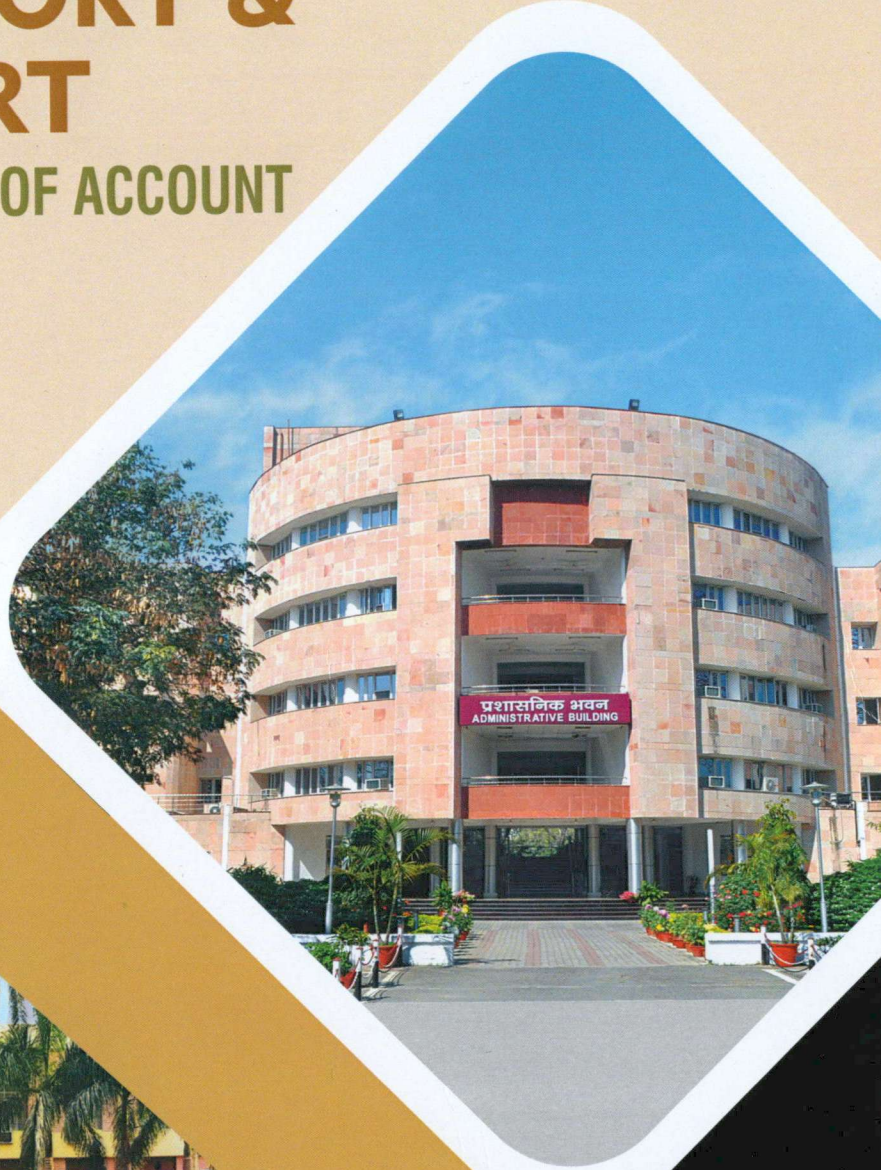


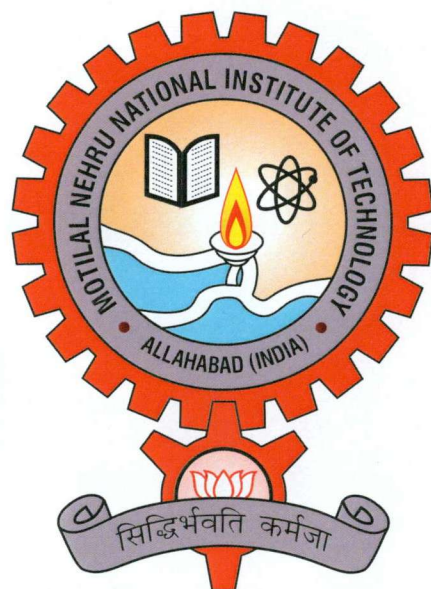


ANNUAL REPORT & AUDIT REPORT WITH AUDITED STATEMENT OF ACCOUNT 2019-20



मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद, प्रयागराज
MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD, PRAYAGRAJ

ANNUAL REPORT & AUDIT REPORT
WITH
AUDITED STATEMENT OF ACCOUNT
2019-20



Motilal Nehru National Institute of Technology Allahabad
Prayagraj-211004

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INTRODUCTION

1.1 Vision

1.2 Mission

INTRODUCTION

1.1 VISION

- To attain a distinct identity for the Institute through technology innovation, knowledge creation and dissemination for the benefit of the society.

1.2 MISSION

- To nurture an eco system for continuous enhancement of value based teaching and learning process in the emerging areas of technology.
- To train quality human and knowledge resources in the service of society.
- To develop sustainable products and technologies.

Road Map

a. Academic Growth

- Continuous revision of the curriculum, based on feedback from the students and input from industry, alumni and other stakeholders.
- Student exchange programme with credit transfer with leading institutions.
- Compulsory course on Ethics and Value based Governance for each programme.
- Reorient Teaching Learning Process for developing Entrepreneurial Skills among the students.
- Review and update all M.Tech Programmes with focus on employability and relevance.
- To recruit qualified technical staff for laboratories.
- To conduct regular training programme for faculty, supporting & technical staff.
- To conduct Academic Audit of each department on annual basis.

b. Research and Innovation

- Two centres are proposed on basis of existing expertise of the Institute towards design and implementation of next generation societal applications in the domains where Government is keen to provide funding and support:

1. Centre for Design and Innovation: This centre will be a multidisciplinary centre that will provide necessary software and hardware tools for transforming creative ideas into products.
2. Centre for Sustainable Smart Habitat: To understand the opportunities towards building a smart and sustainable habitat which can be harnessed by different technical expertise available at our institute, utilizing AI and IoT.

c. Resource Generation

- To prepare the detailed framework for the process of fund contribution, details of utilization and benefits to the donor.
- Areas of donation may include: laboratory equipments, Infrastructure, Scholarships, Area Chair Professor, Centre of Excellence among other options.
- To conduct Management Development Programme (MDP)/Executive Development Programme (EDP) of short duration through departments and/or SNFCE.
- To establish testing & consultancy facilities in collaboration and partnership with Industry and alumni.

d. Infrastructure

- To prepare Master Plan for Institute Infrastructure Development and learning resources by 2020 with a vision for 30-50 years period.
- To organize the Master Plan into phases by prioritizing its component which may include a) Class Rooms b) Workshop C) Laboratories D) Hostels E) Faculty Accommodation F) Community Centre G) Water, Electricity, Internet Connectivity, Parking etc.
- To make all the buildings accessible for the differently abled persons as per norms.
- To develop modern class rooms, laboratories, faculty rooms, hostels, hygienic environment and other infrastructure projects.
- To implement MIS for all institutional activities.

- To develop an integrated campus with connectivity between academic campus, hostels and residential areas.
 - To promote Department/ Cell/ Centre to interact with Alumni for active participation in Institute Development.
 - To facilitate industry collaboration with focus on resource generation.
- e. Social Outreach**
- To ensure regular activities for upliftment of neighborhood and socially marginalized groups, by encouraging formal and informal student groups.
 - To train nearby communities in technical skills under 'Skill India Programme' and enable economic empowerment of people
 - Mandatory Community Service by all the faculty, staff and students for one week per academic year.
 - To adopt a backward village for its overall development, under 'Unnat Bharat Abhiyan'.



Orientation Programme (July 25, 2019)



Annual Convocation (November 02, 2019)



Republic Day (January 26, 2020)



Global Alumni Convention (November 09-10-2019)

THE INSTITUTE

- 2.1 Historical Background**
- 2.2 Location**
- 2.3 Campus**
- 2.4 Administration**
- 2.5 Academic Programmes**
- 2.6 Admission Procedure**
- 2.7 Students**
- 2.8 Examination and Evaluation**
- 2.9 Hostels**
- 2.10 Extra-Curricular Activities**
- 2.11 Training and Placement**

2.1 HISTORICAL BACKGROUND

Motilal Nehru National Institute of Technology (erstwhile Motilal Nehru Regional Engineering College) Allahabad came into existence in 1960 along with seventeen other Regional Engineering Colleges. The Regional Engineering Colleges had twin objectives, to create and nurture engineers and to integrate the nation by mandatorily inducting students from all over the country. The governance was shared by the respective State and the Centre. The Institute was affiliated to the University of Allahabad as its Faculty of Engineering, until year 2000. In 2002, the College was renamed as Motilal Nehru National Institute of Technology and the governance was taken over fully by the Government of India. In 2007 the Institute was declared as Institute of National Importance by an Act of Parliament. MNNIT celebrated the completion of 50 glorious years of its existence in the Year 2010-11.

The foundation stone of the college building was laid by the architect of modern India, Pandit Jawahar Lal Nehru in 1961 and the building was inaugurated by Shri Lal Bahadur Shastri in 1965, another illustrious son of the soil.

In 1961 the first batch of 100 students was admitted to three Bachelor of Engineering (B.E.) programmes, viz. Civil, Mechanical and Electrical Engineering. The Master of Engineering programme (M.E.) began in 1967 with two programmes in Mechanical Engineering followed by three programmes in Civil Engineering in 1971. In 1973 the Institute was identified as Quality Improvement Programme Centre for M.E. and in 1975 for Ph.D., in Mechanical Engineering. The first Ph.D. was awarded in 1975 in Mechanical Engineering. Subsequently moving on the growth path three BE programmes were added, viz Computer Science and Engineering in 1976-77, Electronics & Communication Engineering, and Production and Industrial Engineering in 1982-83. The Master of Computer Application was started in 1986. To add a new dimension to itself, the Institute established School of Management Studies in 1996, which offers a two year (four semester) Master of Business Administration (MBA) programme.

At present MNNIT is proud to offer 09 B.Tech., 25 M.Tech. as well as MCA, MBA and MSc program and doctoral programs in all disciplines of engineering, applied sciences, social sciences and management, to around 4000 undergraduate, 2000 post graduate and 200 doctoral students, through fourteen academic departments/ schools/ cells. The students take admission, in this Institute not only from different states in India, but also from many foreign countries including SAARC countries, middle east, Asia, Europe, USA and New Zealand.

The infrastructure of the Institute is at par with the best Institutions in the country. The Computer Centre has state-of-the-art computing facilities, departments have modern laboratories and the library houses print as well digital learning resources. Most of the class rooms are air conditioned and equipped with multimedia pedagogical tools. The entire campus, including hostels, executive development centre and residential area is connected with 1.25 Gbps internet connectivity.

2.2 LOCATION

The city of Prayagraj is situated at the confluence (Sangam) of three rivers Ganga, Yamuna and Saraswati. The earlier settlements of Aryans were established in this city, then known as Prayag, later it became the capital of the glorious Guptas in 1583, Emperor Akbar built the fort at Sangam, where lies the Ashoka pillar, 11m high dating back to 232 B.C., having inscriptions of Samudra Gupta and Jehangir. The city was later ruled by the Marathas. It was finally ceded to the British by the Nawab of Awadh in 1801. In the 20th century, the city became the nerve centre of India's freedom movement. Allahabad is known for its academic ambience and presently houses six national level Institutes /Universities.

The Institute is about 9 km from Allahabad Junction Railway Station and about 4 km from the Prayag Railway station and 16 km from Bamrauli Airport.

2.3 CAMPUS

The Institute is spread over in an area of 222 acres on Lucknow- Prayagraj highway near the

banks of the river Ganga in Teliarganj locality. The campus is divided into three parts:

- (i) Academic Campus housing, Academic and Administrative Building, Bank, Sports field, Tennis Court and Gymnasium, Hostel for U.G. first year students, P.G. Students and Multipurpose Hall.
- (ii) Hostel area housing, hostels for male students, Student Activity Centre and Industrial Estate.
- (iii) Residential area housing, faculty and staff quarters, Executive Development Centre, Girls' hostel, International hostel and Health Centre.

A quiet and congenial atmosphere for studies and research at the highest level prevails in the campus.

2.4 ADMINISTRATION

Board of Governors is the apex administrative body. The Director is the Principal Academic and Executive Officer of the Institute and is responsible for the proper administration of the Institute and for imparting instructions, maintenance of discipline therein. Director is assisted in his day to day work by Deans, Heads of the departments, Faculty-In-Charge for various functions, Registrar, other officers and various Committees.

2.5 ACADEMIC PROGRAMMES

The Institute offers nine B. Tech, twenty five M. Tech, MCA, MBA and M.Sc. programmes. It also offers doctoral programmes in all the disciplines of Engineering, Sciences, Management, Humanities and Social Sciences.

2.6 ADMISSION PROCEDURE

B. Tech.

Admissions are made on the basis of JEE (Mains) and counseling is conducted by CSAB, on behalf of the Govt. of India, MHRD.

M. Tech.

Admissions to the regular M. Tech. Programmes are made only on the basis of the GATE score through Centralized Counseling for M.Tech. admission in NITs (CCMT). Admissions to M.Tech. (Part Time) and M.Tech. (Sponsored) programmes are made on the basis of national-

level test and interview conducted by the Institute. Further, admissions to M.Tech. programme are also offered under the QIP scheme of AICTE.

MBA

Admissions to the M.B.A. programme are made on the basis of the combined merit of CAT (conducted by IIMs) percentile and the GD and PI conducted by the Institute. Admission to sponsored candidates are offered on the basis of eligibility criteria.

MCA

Admission to M.C.A. programme is made through NITs MCA Common Entrance Test (NIMCET).

M.Sc. (Mathematics and Scientific Computing)

Admissions to M.Sc. (Mathematics & Scientific Computing) programme are made on the basis of the rank of Joint Admission Test for M.Sc.(JAM) conducted by NITs and counseling conducted by CCMN.

Ph. D.

Admission to Ph.D. (Regular/ Part-time / Sponsored) programme are conducted on the basis of the rank in national-level test conducted by the Institute followed by a personal interview.

2.7 STUDENTS

The Institute admits 935 students through JEE (Mains) and 123 through DASA programme to nine undergraduate programmes, 475 students to various M.Tech. programmes, 93 to MCA, 62 to MBA, 23 in M.Sc. In addition, 89 students are admitted to doctoral programmes in different branches. Students from countries such as Sri Lanka, Nepal, Bangladesh, Mauritius, Malaysia, Iran, Yemen, Iraq, Palestine, Syria, Saudi Arabia and Thailand also join MNNIT for various academic programmes. Teachers from other Institutions come here to pursue M.Tech. and Ph.D. under QIP scheme as well as under self sponsored scheme. Large number of industry executives also join for Ph.D. programmes.

2.8 EXAMINATION AND EVALUATION

The examination process is continuous, learning- oriented and transparent. Students'

performance is evaluated on the basis of one midterm and one end term examination for each course, along with teacher's assessment, which is based on regularity of attendance, submission of assignments and class participation. The Institute is following absolute grading system with eight letter grades to denote various levels of performance.

The academic performance of each student is reviewed by a Committee consisting of the Chairman SUGC/ SMPC, the Dean (Academic) and the DUGC/ DMPC Conveners at the end of each semester. The academic performance is evaluated on the basis of grades, SPI and CPI, obtained in courses registered.

2.9 HOSTELS

The Institute is fully residential. At present there are eight boys' hostels, viz Swami Vivekananda hostel, Purushottam Das Tandon hostel, Pt. Madan Mohan Malviya hostel, Bal Gangadhar Tilak hostel, Sardar Vallabh Bhai Patel hostel, Ravindra Nath Tagore hostel, Sir C.V. Raman hostel and P. G. Hostel.

Presently the Institute has two girls' hostels located inside the campus for accommodating girl students, namely Sarojni Naidu girls' hostel and Kamala Nehru girls' hostel. An International House for Ph.D. and P. G. students is also located inside the campus. Hostel Messes are managed by nominated student representatives under the overall supervision of Chief Warden (Boys' Hostels), Chief Warden (Girls' Hostels) and a team of Wardens of Hostels.

2.10 CO-CURRICULAR ACTIVITIES

The Institute provides ample avenues for the development and nurturing of creative and other talents in the students through the Student Activity Centre (SAC). Comprising Clubs and Gymkhana all the activities are managed by students under the guidance of President, SAC and a team of Faculty In-Charges, Faculty Coordinators and Committees for various events. The SAC provide platform to arrange Cultural, Technical and Managerial events, Personality development, Athletics, Indoor and Outdoor games, Yoga and other activities. The SAC also facilitate and encourage the students to take part in similar events in other institutions.

Students' Clubs

Student's Clubs are divided into ten main sections. (a) Literary events and media (b) Community Development (c) Personality Development (d) Quiz Club (e) Photography Club (f) Robotics Club (g) Aeromodelling Club (h) Computer Coding Club (i) Technical Club, (j) Energy Club, (k) Music Club, (l) Dance Club, (m) Dramatics Club, (n) Arts & Painting Club, (o) SPIC Macay Club, and (p) Yoga Center.

There are following five annual events in the institute.

1. Annual Techno-management festival (Avishkar + Gnosomania)
2. Annual Sports (Josh, J. Lal Memorial)
3. Annual Athletic Meet
4. Annual Cultural Festival (Culrav)
5. Annual Literary Festival (Eloquence)

The details are given at **ANNEXURE-6**.

2.11 TRAINING AND PLACEMENT

The Campus Recruitment Program for graduating students conducted by this Institute is a very vital activity. The Institute, over the years, has created an enviable position in Indian Organizations. Over 250 companies visited the Institute for placements during the year 2019-20. Campus selection of students from B.Tech. (Information Technology and Electrical Engineering) got record offer of Rs.49 LPA (CTC). Beside this, the TPO also arranges Summer and Winter Training Program for students of B.Tech. 4th and 6th semester and MBA 2nd Semester, in addition to 6 months internship for MCA students and paid Internship for M.Tech. students for 6 months duration. Further, inbound training and internships for student from other institutions are also looked after by the Office of training and Placement. Technical quizzes, hackathons, workshops, competitive coding contests, seminars, etc are conducted by companies from time to time through the Office for the benefit of the students. Soft skill and personality development programs are also organized by the Training and Placement Office. Placement details are listed at **ANNEXURE-7**.

GENERAL FACILITIES AND SERVICES

- 3.1 Computer Centre
- 3.2 Mechanical Workshop
- 3.3 Laboratories
- 3.4 Centre for Interdisciplinary Research [CIR]
- 3.5 Central Instrumentation Facility
- 3.6 Central Library
- 3.7 School for Non-Formal and Continuing Education [SNFCE]
- 3.8 Intellectual Property Right Cell [IPR Cell]
- 3.9 NCC and NSS
- 3.10 Institute Health Care Centre
- 3.11 Vehicle Section
- 3.12 Women Grievance Cell
- 3.13 Alumni
- 3.14 Canteen
- 3.15 SC/ST Cell
- 3.16 Reservation Cell
- 3.17 Executive Development Centre [EDC]

3.1 COMPUTER CENTRE

The Computer Centre is equipped with 300 state of the art Core-iX series (mostly i7) machines with LINUX as the base operating system. The Computer Centre provides computing facilities to all the faculty members and students of MNNIT Allahabad. Computer Centre provides Email, Web, DNS, FTP and Internet access 24 hours and 365 days using 10Gbps and 500 Mbps leased lines from NKN (Railtel) and BSNL respectively. MNNIT has Campus Wide wired network where every room is having connectivity both in academic and residential campus. Campus wide connectivity is provided via 10 Gbps optical fiber backbone with Cisco 6509 as Core Switch, along with 2 Distribution switches (Cisco 4503 in Student Activity Centre and Cisco 4506 in Executive development centre). Recently, a centrally controlled Campus wide WiFi network with 250 Access Point & Cisco Wireless LAN controller for all hostels, Administrative building, Seminar hall and M.P hall is also installed. Both wired and wireless internet connectivity is available in the campus. Computer Centre is having 3 Authoritative DNS (Domain Name Servers) and 8 proxy servers configured on virtual machines on Linux Servers. Further, 3 web servers are maintained running on native machines which are used to host our institute website, they are running on NKN, BSNL and Local link (for backup purpose) providing 24x7 uptime. The regular update, enhancement and maintenance of our institute website is also a major responsibility of Computer Centre. Additionally, Computer Centre has IBM blade-centre cluster where a small-scale private cloud is hosted to provide services to end users. MNNIT Mail server is hosted at Google cloud and its administration is done by Computer Centre.

3.2 MECHANICAL WORKSHOP

Mechanical Workshop is one of the Central facilities of Motilal Nehru National Institute of Technology Allahabad. Mechanical Workshop has seven different shops such as; Machine Shop, Welding Shop, Carpentry, Sheet Metal, Fitting, Foundry and Smithy.

All B.Tech. first year students (all branches), B.Tech 4th, 5th, 6th, 7th and 8th Semester of

Mechanical and Production Engineering perform their practical. As per new curriculum, the M. Tech. CAD/CAM, Mechanical and Production Engineering (regular & part time) students also have to perform the practical in different shops of Mechanical Workshop. In Mechanical Workshop, the project of Ph.D. Research Scholars are also fabricated and manufactured.

3.3 LABORATORIES

Applied Mechanics

- (i) Experimental Solid Mechanics PG Laboratory
- (ii) Biomedical Engineering PG Laboratory
- (iii) Materials Development PG Laboratory
- (iv) Fluid Engineering PG Laboratory
- (v) Computational PG Laboratory
- (vi) Strength of Material Laboratory
- (vii) Material Science & Engineering Laboratory
- (viii) Fluid Mechanics & Hydraulic Laboratory
- (ix) Structural Analysis Laboratory
- (x) DST-FIST Computational Laboratory
- (xi) Departmental Workshop
- (xii) Engineering Mechanics Laboratory
- (xiii) Fluid Research Laboratory
- (xiv) Solid Mechanics Research Laboratory
- (xv) Material Research Laboratory
- (xvi) Dynamic of Machine Laboratory
- (xvii) Compressible Flow Laboratory
- (xviii) Vibration Laboratory
- (xix) Robotics Laboratory
- (xx) Experimental Stress Analysis Laboratory
- (xxi) Non Destructive Testing Laboratory

Biotechnology

- (i) Laboratory-I
- (ii) Laboratory-II
- (iii) Bioinformatics Laboratory
- (iv) Green house Laboratory
- (v) Experimental field Laboratory
- (vi) Central Instrumentation facility

Civil Engineering

- (i) Structural Engineering Laboratory
- (ii) Geotechnical Engineering Laboratory
- (iii) Environmental Engineering Laboratory
- (iv) Transportation Engineering Laboratory
- (v) Survey Laboratory
- (vi) CAD Laboratory
- (vii) Geology Laboratory

Chemical Engineering

- (i) Chemical Reaction Engineering Laboratory
- (ii) Chemical Technology Laboratory
- (iii) Computer Aided Design Laboratory
- (iv) Environmental Engineering Laboratory
- (v) Fluid Particle Mechanics & Mechanical Operation Laboratory
- (vi) Mass Transfer Laboratory
- (vii) Process Dynamics & Control Laboratory
- (viii) Chemical Engineering Laboratory (M.Tech)

Chemistry

- (i) Undergraduate Chemistry Laboratory
- (ii) Research Laboratory-I
- (iii) Research Laboratory-II
- (iv) Research Laboratory-III

Computer Science and Engineering

- (i) Computing Laboratory
- (ii) Database/Data Mining Laboratory
- (iii) SOA/Distributed Computing Laboratory
- (iv) Embedded System/ Real Time System Laboratory
- (v) Computer Architecture / Microprocessor Laboratory
- (vi) Computer Network / Wireless Network Laboratory
- (vii) Image Processing/ Computer Vision Laboratory
- (viii) Software Testing Laboratory
- (ix) Verification & Validation Laboratory

Electrical Engineering

- (i) Measurement & Instrumentation Laboratory
- (ii) Electrical Machine Laboratory
- (iii) Control System Laboratory
- (iv) Power System & High Voltage Laboratory
- (v) Computer & Simulation Laboratory
- (vi) Virtual Instrumentation Laboratory
- (vii) Power Electronics Laboratory
- (viii) Departmental CRU Laboratory

Electronics & Communication Engineering

- (i) Basic Electronics Laboratory
- (ii) Advanced Electronics Laboratory
- (iii) VLSI Laboratory
- (iv) Computer Architecture Laboratory
- (v) Communication Laboratory
- (vi) DCN Laboratory
- (vii) Project and PCB Laboratory

- (viii) Microwave Laboratory

- (ix) Param Laboratory

Mechanical Engineering

- (i) Engineering Graphics Laboratory
- (ii) Machine Design and Drawing Laboratory
- (iii) Computer Aided Design Laboratory
- (iv) Mechatronics and Control Laboratory (Renaming of Mechatronics and Virtual Instrument Laboratory)
- (v) Materials Testing and Characterization Laboratory (Merging of Machine Element Laboratory and Material Characterization Laboratory)
- (vi) Product Development Laboratory
- (vii) Rotor dynamics and Diagnostics Laboratory
- (viii) Foundry, Forming and Plastic Laboratory
- (ix) Advanced Manufacturing Laboratory
- (x) Machine Tool & Advanced Machining Laboratory
- (xi) Computer Aided Manufacturing Laboratory
- (xii) Industrial Engineering Laboratory
- (xiii) Measurement and Metrology Laboratory (Merging of Instrumentation and Metrology Laboratory)
- (xiv) Composite Manufacturing Laboratory
- (xv) Additive Manufacturing and Rapid Prototyping Laboratory
- (xvi) Heat and Mass Transfer Laboratory
- (xvii) Solar Energy Laboratory
- (xviii) Internal Combustion Engine Laboratory
- (xix) Automobile Engineering Laboratory
- (xx) Steam Power Engineering Laboratory
- (xxi) Refrigeration and Air Conditioning Laboratory
- (xxii) Industrial and Engine Tribology Laboratory (Renaming of Mechanical System Design Laboratory)
- (xxiii) Computational Research Laboratory
- (xxiv) Product Design and Manufacturing Laboratory

Physics

- (i) Undergraduate Physics Laboratory-I
- (ii) Undergraduate Physics Laboratory-II
- (iii) Research Laboratory

SMS

- (i) Systems Laboratory

- (ii) Behavior Dynamics Laboratory
- (iii) Research Scholars Laboratory

HSS

- (i) Language Laboratory

GIS Cell

- (i) Geo Informatics Laboratory

3.4 CENTRE FOR INTERDISCIPLINARY RESEARCH (CIR)

The Centre for Interdisciplinary Research (CIR) was established in 2012 by the Institute in order to promote cross-interdisciplinary research. In view of the dramatic developments in the field of Science and Technology research, CIR has been established in the Institute to keep pace with current cutting edge research.

One of the primary objectives of the CIR is to provide best research and analytical facilities for its undergraduate, postgraduate, research scholars and faculty. In addition to serving the Institute, the Centre welcomes researchers from all over the country to use the facility at nominal cost. The Centre also looks forward for collaborative research programme with other leading Technical Institutions/ Universities and Research Laboratories. The functioning of CIR is being coordinated by a core committee and a technical committee constituted by the Director from among the faculty members of the Institute.

3.5 CENTRAL INSTRUMENTATION FACILITY

Central Instrumentation facility under Department of Biotechnology MNNIT Allahabad, is offering facilities for Ph. D. scholars, M. Tech. and B. Tech. students for their research. The students and other stakeholders come and utilize the facilities available in the centre for their dissertation and research work.

List of Laboratories

- (i) Molecular Diagnostic Laboratory
- (ii) Microbiology Laboratory
- (iii) Immunodiagnostic and Tissue Culture Laboratory
- (iv) Biosafety Culture Laboratory (Class II)
- (v) Central Instrumentation Facility

3.6 CENTRAL LIBRARY

An area of about 2455.49 sqm. has been occupied by the present Library building. It contains a Reading Hall 388 sq.m in which 175 readers can be accommodated at a time, a Stack-room of 470.42 sq.m having a collection of about 1,05,157 (approx) books. A Bound Periodical section having a collection of 17,651 (approx) volumes. Through e-Shodhsindhu Consortium and Institute subscribed thousands of e-Journals and 19,713 e-Books can be accessed 24X7. A dedicated facility in the form of e-Resources Access Room with 15 computer terminals is also available for accessing these.

Membership

The membership of the Central Library is open to students, teachers and the other administrative & technical officers and staff of the institute. The present membership is about 4422 (approx).

Working Hours

The Library working hours are from 9:00 am to 12:00 midnight and circulation section remains open between 09:30 am to 07:30 pm on week days. On Saturdays/ Sundays library working hours are from 9:00 am to 12:00 midnight and circulation section remains open between 09:30 am to 07:30 pm. A total to 11194 books (approx) were transaction during the year.

Collection as on 31-3-2020

Bound periodicals	17,651
Books	1, 05,157
E Books	19,713

E-Resources

E-Journals and Database (Subscribed by Library)	7,270
E-Resources (Available through eSS)	3,589
IEEE Conference Proceedings	31,308
IEEE Standards	8,318

News Paper and Magazine

News paper and Magazine corner is locate First floor in the Library. The Library subscribes 22 newspapers (13 Hindi + 09 English) and 23 (10 Hindi+13 English) popular magazines on different topics.

Internet Access Facility

The Central Library provides 25 internet connections and wi-fi internet connections to its user and majority of students frequently use on-line journals and e-books for their research activities.

National Programme on Technology Enhanced Learning (NPTEL)

NPTEL provides E-learning through online Web and Video courses in Engineering, Science and humanities streams. The mission of NPTEL is to enhance the quality of engineering education in the country.

Online Public Access Catalogue (OPAC)

Library has fully computerized catalogue search facility available to users through intranet.

E-Resource

The following e-Resource are available from e-Shodhsindhu consortium

1. ACM Digital Library
2. Annual Reviews
3. ASCE Journals Online
4. ASME Journals Online
5. Economic & Political Weekly
6. Institute for Studies in Industrial Development (ISID) Database
7. JGate Plus (JCCC)
8. JSTOR
9. MathSciNet
10. Oxford University Press
11. Web of Science

Classification & Cataloguing

All the library books are classified as per "Dewey Decimal Scheme of Classification" and catalogued as per "AACR-II Rules".

RFID Implementation

The Central Library has implemented the Radio Frequency Identification (RFID) system. It is the best-automated library automation system used worldwide and is an effective way of managing collections of the library and providing enhanced services to the users.

Reprographic Services:

Provides for the personal use of users the copies of information materials available in library on payment basis.

Textbook Lending Book Bank

The Book bank of the Institute helps the students of U.G. courses and MCA Students by making textbooks available to them from the Book bank for largest duration. About 1238 students were benefited by this scheme and 2072 books were issued during the year.

SC/ST Book bank

Under centrally sponsored scheme for SC/ST students a total of 213 students of U.G. courses were benefited by this scheme and 306 books issued to them. Under this scheme no rent is charged from the SC/ST students.

3.7 SCHOOL FOR NON-FORMAL AND CONTINUING EDUCATION (SNFCE)

The Institute offers the opportunity to working engineers in and around Allahabad employed with Industries, Government Departments, Educational Institutions and Entrepreneurs to study for Masters Degree in various disciplines on a part-time basis. These are aimed at improving the standard and quality of technical education through improving of qualifications of the working professionals and faculty members of the government/ Private technical Institute. The classes for these courses are organized in the evening.

M.Tech. (Part-Time) programmes which run under the School for Non Formal and Continuing Education (SNFCE) are of 03 years/ 06 semester duration out of which 02 years are for course work and one year for Thesis/ Dissertation/ Projects. The candidates with minimum 02 years of working experience are eligible for admission. All academic requirements for admission and graduation will be same as that of regular/ full-time M. Tech programme described in Institute PG Manual.

The Institute provides modernized Lecture Halls, well equipped departmental laboratories, seminar room, computer centre and library in support of smooth running of classes of various

M.Tech. (Part-Time) Programmes, Faculty Development Programme, Conference/Seminars, Short Term Courses and Training programme. The actual number of courses for the particular session to be offered is announced through the news papers alongwith other details of application.

It is a self supporting unit within the Institute and participates in organizing seminars, conferences, symposia etc. This unit also organizes short term courses and training programmes to run special course modules and sponsored courses on request from industries and academia.

The cell coordinates the activities of industry needs for academic and continuing education programmes as well as executive development programmes and non-formal education and fosters collaborations for Industry-Institute partnership. A number of Faculty Development Programs (FDPs) have been organized by the SNFCE for the benefit of the faculty members from engineering colleges & persons from industries. The courses have proved very popular and useful.

SNFCE has also coordinated MHRD's Government of India academic improvement programme Global Initiative for Academic Networks (GIAN) in session 2019-20.

3. 8 INTELLECTUAL PROPERTY RIGHT CELL (IPR CELL)

The Institute IPR cell has been constituted to maintain high standards of academics and to

create a suitable environment for creation and protection of intellectual property.

In the year under report, the IPR Cell took following steps towards achieving the objective:

- (i) Subscription to Turnitin software was renewed to check similarity of text with the published material. The login is available to all the Heads of the Departments and faculty of the Institute.
- (ii) Every Ph.D Thesis is mandatorily checked by the 'Turnitin – Anti Plagiarism Web Tool' before submission as per approval of the Senate in its Eleventh (11th) emergent meeting held on 15.07.2014.
- (iii) Every department has been given user login for checking of research papers, project reports and thesis of respective departments.
- (iv) The draft IPR policy of the Institute is being reviewed as per guidelines by the Board of Governors

Achievement during 2019-20

- (i) During 01.04.2019 to 31.03.2020 IPR Cell checked 198 Ph.D thesis and approved 86 Ph.D thesis, according to Institute rule. Further 83 M.Tech thesis /papers were also checked by the Cell.
- (ii) The Institute has filed Twenty (20) Patents till date, out of which Three (03) patent applications has been filed in the year under report.
- (iii) Two patents are granted to the Institute. Details are as follow:-

Patent Granted in 2019-20

Sl. No.	Name of Faculty	Title	Application No.	Status
1.	Dr. Sangeeta Negi Dr. Suneel Kumar	A Process for Bio- remediation of Industrial Grease Waste using a Bacterial Consortium	1764/Del/2014	Granted Application Patent Num: 330765 Certificate issued: 30-01-2020
2.	Dr. Seema Nara Mr. Pranav Tripathi	Gel Imaging Device	294796 (Design No.)	Granted

Constitution of the IPR Cell

- | | | | | | |
|-------|-----------------------|--------------------------------------|------|---------------------------|----------------------------|
| (i) | Director | Chairman IPR Cell | (iv) | Prof. Neeraj Tyagi, CSED | Member, Standing Committee |
| (ii) | Prof. Geetika, SMS | Chairperson , IPR Standing Committee | (v) | Prof. Shivesh Sharma, OSD | Member, Standing Committee |
| (iii) | Prof. H. N. Kar, ECED | Member, Standing Committee | | | |

Patent Filed in 2019-20

Sl. No.	Name of Faculty	Title	Application No.	Date of filling
1.	Dr. Basant Kumar Dr. Shashwat Pathak Er. Rahul Raj, Er. Aditya Dixit	A method and a system for automatic detection and grading of cataract	201931016829	27.04.2019
2.	Prof. Anjana Pandey	A novel method of GNP synthesis and its application for individual and simultaneous detection of heavy metals (Pb ²⁺ , Cd ²⁺ , Hg ²⁺ , Cr ⁶⁺) through electro chemical analyzer	201911043605	26.10.2019
3.	Dr. Vishnu Agarwal Mr. Devendra Singh	Herbal Formulation against Bacillary Dysentery and Related Disorders and Process for preparing the same	202011003755	28.01.2020

3.9 NCC AND NSS

National Cadet Corps (NCC)

NCC wing is active and functional at MNNIT. Following were the activities carried out by NCC during 2019-20:

1. Enrollment for the New NCC cadets (Boys and Girls) was completed on August 03, 2019 at MNNIT Allahabad, Prayagraj.
2. NCC cadets participated in 'Chingari Se Chirag Ek Swasth Bharat Ki Or' program on 11.08.2019 at 06 UP BN Girls, NCC, Prayagraj.
3. NCC cadets (SD and SW) performed the parade on the auspicious occasion of Independence Day, 2019 at MNNIT Allahabad, Prayagraj.
4. NCC cadets participated in 'Tree Plantation' Program on August 15, 2019 at MNNIT Allahabad, Prayagraj.
5. NCC cadets participated in Annual Training Camp CATC-72 on September 03-12, 2019 at SIET, Jhalwa, Prayagraj.
6. NCC cadets participated in Shramdaan Program on October 02, 2019 at MNNIT Allahabad, Prayagraj.
7. NCC cadets participated in 'March Past' Programme on October 31, 2019 at MNNIT Allahabad, Prayagraj.
8. NCC cadets participated in 'Swachhta Awareness Rally and Group Discussion' Program on November 24, 2019 at MNNIT Allahabad, Prayagraj.
9. NCC cadets participated in 'Short Range Firing' Program on November 26, 2019 at

Short Range Firing Area, New Cantt., Prayagraj.

10. 100 Pkt. Sanitary Pad Distributed by NCC Cadets during 'Swachhata Pakhwada' Programme on December 03, 2019.
11. NCC cadets participated in 'Arms Handling' Programme on December 10, 2019 at MNNIT Allahabad, Prayagraj.
12. NCC cadets participated in 'Short Range Firing' Program on December 11, 2019 at Short Range Firing Area, New Cantt., Prayagraj.
13. NCC Cadets performed Parade on Republic Day on January 26, 2020 at MNNIT Allahabad, Prayagraj.
14. NCC cadets participated in Army Attachment Camp on January 30 to February 13, 2020.

National Service Scheme (NSS)

NSS wing is functional and active at MNNIT. Following were the activities carried out by NSS during 2019-20.

1. NSS volunteers participated in Independence Day Program on 15.08.2019.
2. NSS volunteers participated in 'Shramdaan Programme' under Swachh Bharat Abhiyan on 02.10.2019.
3. NSS volunteers participated in 'EktaDiwas' Programme (Sardar Ballabh Bhai Patel Jayanti) on 31.10.2019.
4. NSS volunteers participated in Republic Day Program on 26.01.2020.
5. NSS volunteers participated in 'Pad Yatra and Candle March' Programme on 30.01.2020.

3.10 INSTITUTE HEALTH CENTRE

It is an out-patient centre catering the medical need of approximately 5000 students and all members of faculty and staff & their dependents.

Timing of Health Centre

All working days of the Institute: From 7.30 a.m. to 8.00 p.m.

All Saturdays and Sundays: From 9.00 a.m. to 1.00 p.m. (Part-Time)

Facilities

- (i) Consultation & Dispensing of medicines to students, staff & their dependents.
- (ii) Special facilities of E.C.G. & Routine Pathological testing.
- (iii) Services of Dental surgeon, Skin specialist, ENT paediatrics, Orthopaedic, Psychiatrists etc are available on different days.
- (iv) Homeopathic medicines are being provided under consultation of Homeopathic Consultant.
- (v) Ayurvedic medicines are being provided under consultation of Ayurvedic Consultant.
- (vi) Male & Female Physiotherapist is available for all types of physiotherapy.
- (vii) Organize different campus like blood donation camps, awareness of man of diseases like Hepatitis, ADS, Asthma, Diabetes, Arthritis and Blood Donation Camp.

Presently all the works at Health Care Centre are carried out by following staff:

Senior Medical Officer In-charge

Dr. Shailendra Kumar Mishra

Part Time General Duty Doctors

Dr. Sadhna Dwivedi General Physician
(Lady Doctor)

Dr. Shirley Paulson General Physician
(Lady Doctor)

Part Time Specialist Doctors

Dr. Nishant Nigam Skin Specialist
Dr. S. K. Agarwal E.N.T Surgeon
Dr. R. N. Mehrotra Pediatrician

Dr. Puneet Upadhya Dental Surgeon
Dr. Pushkar Nigam Neuron Physician
Dr. Avinash Jaiswal Orthopedic

Part Time Homoeopathic Doctor

Dr. Seema Gupta

Part Time Ayurvedic Doctor

Dr. Sanjay Baranwal

Physiotherapist

Mrs. Deepti Yogeshwar,
Mr. C. Mohd. Soheb

Pharmacist

Shri Vinod Kumar Mishra
Shri R. K. Nirbhay

All pharmacists are managing dispensing of medicines and assisting specialist doctors during dispensary hours.

Dressers

Mr. Om Prakash Parasar

Dressers are there to help in dressing, giving injections and miscellaneous work of Health Centre during working hours.

Two Nurses to help doctors and carryout other miscellaneous works.

Medical Technicians, Attendants & Ambulance

Besides regular staff, tow nurses, 05 medical attendants cum technicians through outsourced manpower supplier help in Blood testing, and miscellaneous work of health center during working hours.

Sr. Office Staff:

Smt. Madhu Yadav

3.11 VEHICLE SECTION

Vehicle section has the following vehicles through which number of facilities are provided to the students, staff and faculty members of the Institute.

Cars	Numbers
SUV	01
Bus (52 Seater)	01
Bus (39 Seater)	01

Ambulance	01	2	19:30 hrs	20:00 hrs
Car	03	3	20:30 hrs	21:30 hrs

Facilities Provided

- (i) Bus facility is provided to the students from Institute to Civil Lines/ Prayagraj Railway Jn. on all week days. Buses are also provided for educational tour of students.
- (ii) Bus facility is provided to wards of staff and faculty members to some select schools on select routes on subsidized rates.
- (iii) Vehicles are also provided for any official visit based on the approval given by the competent authority.
- (iv) Vehicle is also provided to staff and faculty members for picking and dropping from/to Railway Station, Bus Stand and Airport on payment basis when they are not in use for official work. The guidelines for availing this facility and requisition form are provided on the website of the Institute.
- (v) Ambulance facility is free of cost to the students. For staff and faculty members, it is on the subsidized rate of Rs. 5.00 per km

Bus Service for Students

Bus facility to the students is provided on following route and schedule:

- (i) Institute (MP Hall) → Anand Bhawan → Balson Crossing → Hindu Hostel Crossing → Kamla Nehru Road → Lal Bahadur Shastri Marg → Hot Stuff Crossing → Prayagraj Railway Jn. → Head Post Office (Civil Lines).
- (ii) Return: same as above but in reverse order

Terminus

Near "Head Post Office" (Civil Lines)

Schedule

For Saturday and Sunday

Trip No.	From Institute	From Civil Lines
1	11:00 hrs	12:30 hrs
2	14:30 hrs	15:30 hrs
3	17:00 hrs	19:30 hrs
4	20:30 hrs	21:30 hrs

For Monday to Friday

Trip No.	From Institute	From Civil Lines
1	18:00 hrs	19:00 hrs

Stoppage: Ganga gate, Crossing for Prayag Station, Anand Bhawan, Hindu Hostel Crossing, Maha Devi Verma Crossing, Hot-stuff Crossing, Prayagraj Railway Jn., Stone Church Crossing.

Students are required to carry a valid Institute ID card to avail this service.

3.12 WOMEN GRIEVANCE CELL AND ICC

At Motilal Nehru National Institute of Technology Allahabad, various measures are taken to ensure a congenial environment where everyone feels comfortable to perform without any kind of discrimination.

In pursuance of the Department of Higher Education, Ministry of Human Resource and Development Office Memorandum No.32-5/2015. TS III dated 17th August, 2015, Two Committees have been formed for dealing with matters of Grievances pertaining to Women employees and students of the Institute:-Women Advisory Cell has been constituted in accordance with the guidelines issued by Government of India to create awareness related to any sexual discrimination/ harassment of woman in the Institute. Internal Complaint Committee is constituted to look into the complaints of sexual discrimination/ harassment of woman in the Institute.

Women Advisory Cell (WAC)

Sl.No.	Name	Designation
1.	Chairperson Institute Complaints Committee	Chairperson
2.	Prof. Rakesh Narain	Member
3.	Dean Student Welfare	Member
4.	Chief Warden(Girls)	Member
5.	Chief Warden(Boys)	Member
6.	All Members of Institute Complaints Committee	Member
7.	All Wardens Boys and Girls	External Member

Internal Complaints Committee [ICC]

1. Prof. Geetika, Professor, SMS Chairperson
2. Prof. Rakesh Narain Professor, MED Member

- | | |
|---|--------------------|
| 3. Prof. Vijaya Bhadauria
Professor, ECED | Member |
| 4. Prof. Richa Negi,
Professor, EED | Member |
| 5. Dr. Manisha Yadav, Asst.
Registrar (R&C and D.O.) | Member |
| 6. MsShalini Agarwal,
Aastha NGO, Allahabad | External
Member |

Display of Information

Hoardings have been placed at strategic points in the Institute to highlight what may comprise Sexual Harassment and the penalties to deter occurrence of any such event. Contact details of chairperson are given on the hoarding for everyone's benefit.

Activities in 2019-2020

In the year under report 6 meetings were held to deal with various issues and planning of various activities by WAC. All the issues reported to Internal Complaints Committee were resolved to the satisfaction of the aggrieved persons and there is no pendency of cases.

Major activities that were organized:

1. Under "Mahilasuraksha Abhiyan" awareness programme for female students was organized.

On the initiative of the Chief Minister UP, a special drive was being taken up in all the educational institutions where girls study. Women Advisory Cell alongwith Uttar Pradesh Police department organized the "Mahilasuraksha Abhiyan" awareness programme for female students of Institute on 27.07.2019 at Kamla Nehru Girls Hostel and S.N. Girls Hostel.

2. Short Term Training Program on Self Defense Skills.

An enabled girl is an empowered citizen. Therefore, continuing the commitment to train girl students of the Institute, Short Term Training Program on Self Defense Skills was held for all female students from 5 August to 9 August 2019 and 20 August to 24 August 2019. A trained instructor MsSuchitraNath was invited for imparting self-defense skills and techniques useful in daily lives and real

life situations to students. The participating students highly appreciated the programme. The organizing team comprised members of Woman Advisory Cell and Chief Warden (girls) and wardens of girl hostels.

3. Annual Workshop on 'Gender Sensitivity at Workplace: Equity and Equality.

Women Advisory Cell, Motilal Nehru National Institute of Technology Allahabad Organised Annual Workshop on 'Gender Sensitivity at Workplace: Equity and Equality' on 21st September, 2019. The workshop was sponsored by TEQIP III. The Chief Guest was Smt. Swati Singh, State Minister (Independent Charge), Govt. of U.P. Women Welfare, Child Development and Nutrition. Invited Speakers were Prof. Deepa Punetha, University of Allahabad and Mrs. Shilpi Mitchell, Educationist. Prof. Rajeev Tripathi, Director, MNNIT A presided over the event. Chairperson was Prof. Geetika, Conveners Prof. VijayaBhadauria, Co- Chairperson Prof. V. K. Srivastava, Coordinators Prof. Richa Negi, Dr. Manisha Sachan, Dr. Shalinee Shukla, Co-Conveners Dr. Radha Rani, Co-Coordinator Dr. Naresh Kumar, Dr. Rajitha B.

The workshop began with lighting of lamp by all the dignitaries. Prof VijayaBhadauria welcomed the guests and participants. Prof Geetika introduced the topic and talked about need for equity and equality at workplace. She mentioned that in all religions Goddess are worshipped but in society women are oppressed. Therefore it is imperative that an educated society builds a system where everyone feels safe and has equal opportunity to grow. Prof Deepa Punetha talked about psychological dimensions of women when they face any kind of harassment. Ms ShilpiMtichel gave several examples of what can be termed as undesirable conduct with women and that society has a role to play in stopping such behavior.

The Chief Guest Smt Swati Singh deliberated on various aspects of women safety, and stressed that women or girls facing any kind of harassment must come forward and report the act to the authorities.

The aggrieved person should not be stigmatized rather the culprits should be punished. She insisted that government can make laws and Acts but it is for people to cooperate to build an equitable society. Prof. Rajeev Tripathi in his presidential address referred to the Indian Constitution and stressed that India has to build an example to be followed by others where women are not the weaker section and where women get equal opportunity to take up a career or any other decision in life without fear or bias. He reiterated that MNNIT Allahabad is committed to the cause of equity. In the end Prof. Richa Negi presented Vote of thanks. A working lunch was also organised for the participants.

4. Symposium on International Women's Day

On the occasion of international Women's Day 2020, A Symposium on "I am Gender Equality: Realizing Women's Rights" was organized at the Institute on March 8, 2020, in which all the female faculty of the Institute, all Heads of Department, Deans, Chief Warden (Girls), Chief Warden (boys), Registrar and other officials participated.

Prof. Geetika Chairperson Women Advisory cell threw light on the topic and expressed her views on the origin and significance of International Women's Day. Prof. Geetika emphasized the need to bridge the gender gap in economic and political participation, especially in view of the possibilities of increasing GDP by increasing women participation; she reiterated that an equal world is an enabled world.

Prof. Rakesh Narain (Dean Faculty Welfare) gave speech on status of Women in present India and their increased participation in various fields like science and technology, military combat etc. Prof. K.N. Pandey (Dean Student Welfare) gave speech on Gender Equality and expressed his views on the status of Women in ancient India, with reference to the ideal couple Saptrishi Arundhati and Vashisth. Prof. MM Gore (Dean P&D) spoke on role of family and society.

Other Female faculties, Prof. Suneeta Agarwal, Dr. Vibhuti Tripathi, Dr. Seema Nara also expressed their views and shared that their families supported them in achieving their goals.

The presidential address was given by Director Prof. Rajeev Tripathi in which he expressed his views on women empowerment, gender equality and steps taken at MNNIT Allahabad towards women empowerment. He also informed that more than one third among the Women faculty and staff members are holding various official positions at the Institute which is a big achievement. He also mentioned the efforts made by govt. in this direction. Dr. Manisha Yadav Asstt Registrar (R&C) presented Vote of Thanks. All present took an oath of 'I am Gender Equality'.

5. Honoring Women faculty members and staff:

1. Senior most female faculty of the Institute Prof. Suneeta Agarwal was honored for her outstanding tenure spanning 40 years. She has held various administrative and academic positions. Prof. Vijaya Bhaduria spoke about her achievements and Director Prof. Rajeev Tripathi felicitated her with a memento.

Dr. Sangeeta Negi (Associate Professor, Deptt. of Biotechnology) and Dr. Seema Nara (Associate Professor, Deptt. of Biotechnology) were honored for successful grant of patent one each in year 2019 in the field of Biotechnology.

3.13 ALUMNI

Activities organized by Alumni Association during 1st April 2019 to 31st March 2020:

Executive Committee Meeting

- (i) The Fifth meeting of the Executive Committee (2017–19) was held on 20 July, 2019.
- (ii) The First meeting of the Executive Committee (2019–21) was held on January 11, 2020.

Emergent Executive Committee Meeting

- (i) Sixth emergent meeting of the Executive Committee (2017–19) was held on October 19, 2019.

Global Alumni Convention

- (i) Press Conference-2019 held on 08 November 2019.
- (ii) Global Alumni Convention – 2019 held on November 08-10, 2019.

Annual General Meeting (AGM)

Annual General Meeting (AGM) – 2019 including election of next Executive Committee was held on November 09, 2019 at 04:00 PM in M.P. Hall, MNNIT Allahabad, Prayagraj.

Technical Workshop/ Lectures

- (i) Technical workshop organized by MNNIT Alumni Association on Role of Alumni in Professional Growth of Students in Enhancing Professional Competency on November 10, 2019 at 02:30 pm in MP Hall, MNNIT Allahabad, Prayagraj.
- (ii) Lecture on Artificial Intelligence and an interactive session by Mr. Rohit Garg (An Alumni of 1995 Batch, B. E. Mechanical) and their few batch mates on December 12, 2019 at 2:30 pm – 5:30pm in Institute Seminar Hall, MNNIT Allahabad, Prayagraj.

Awarding the Scholarship to Needy Students of MNNIT Allahabad

Since 2014, MNNIT Alumni Association has been continuously awarding the scholarship to the needy students, in the year 2019 also financial support to the following needy students of the Institute, have been sanctioned by the Competent Authority and subsequently disbursed.

Sl. No.	Name	Enrollment No.	Amount (Rs.)
1.	Mr. Sahaj Bamba	20174038	41,100/-
2.	Mr. Narola Pratik Maheshbhai	20184101	41,100/-
3.	Mr. Vikash Kumar	20191001	41,100/-
4.	Mr. Suraj Kashyap	20192044	41,100/-
5.	Mr. Piyush Suhas	20199013	41,100/-

Mane		
6. Ku. Pragya	20191039	41,100/-
Total (Rs. Two Lac Forty-Six Thousand Six hundred Only)		2,46,600/-

Renewal of Society Registration Certificate of MAA:

With regard to the renewal of Society Registration Certificate of MNNIT Alumni Association under the Firms, Societies and Chits, Govt. of UP, Prayagraj, India for the period of five years, renewal certificate has been recently awarded.

MAA representative in PAN NIT Alumni Forum (PNAF):

Er. S. C. Chugh, ME-1979 Batch was elected as the Vice President (East) PNAF on 22.09.2019 at NIT Transit House, New Delhi. Further, MAA nominated Er. S. C. Chugh and Dr. Sanjeev Rai as MAA representative in the PNAF.

Other Activities

- (i) Celebration of Allahabad Local Chapter (ALC) family gettogether on October 13, 2019 at 07:30 pm in EDC Guest House, MNNIT Allahabad, Prayagraj.
- (ii) Institute visit by Mr. Rohit Garg, Vikash Abbi, Nabin Roy & Mrs. Archana Pandey of 1995 batch Alumni on December 12, 2019 and these alumni visited in SAC, Alumni office, Administrative building, Institute canteen, Hostels etc.
- (iii) Financial Assistance to “Anokhi Pehel-2019”.
- (iv) Institute visit by Mr. Santosh Kumar Mishra, Mech - 2000 batch Alumni on January 25, 2020 at 10:30 am onwards with their batch mates, these alumni visit various Blocks/ Labs/ Classrooms/ Library/ Hostels, etc.
- (v) Allahabad Local Chapter (ALC) Family Get Together (Outing) to be celebrated on February 16, 2020 (Sunday) at 09:00 a.m. Itinerary visited 1. Ulta Qila, Jhusi, Prayagraj 2. 54 feet Hanuman Temple, Jhusi, Prayagraj 3. Shivanand Ashram, Jhusi, Prayagraj 4. Kriyayoga Ashram,

Jhusi, Prayagraj 5. Shri Rishabhdev
Bhagwan Tapasthai, Andawa, Jhusi,
Prayagraj.

3.14 CANTEENS

The Institute campus has excellent eating outlets, that serve food and cafeteria items at reasonable prices. The outlets are managed by:

1. M/s Amit Goyal
2. M/s Rajesh Canteen
3. M/s Ram Pher Yadav
4. M/s P. K. Talwar
5. M/s Radhey Shyam Agrawal
6. M/s Anil S. Pillai
7. M/s Raj Bhan Tiwari
8. M/s Lal Bahadur
9. M/s Ambika Prasad Ojha
10. M/s Desh Raj Joos Corner
11. M/s Surendra Nath Yadav
12. M/s Ashish Agrawal
13. M/s JMD Canteen (Bikanerwala)
14. M/s Mood Ka Food (Mr. Sanjeev Gupta)
15. M/s Ganpati Cyber Kafe
16. M/s Abhay Narayan Joos Corner
17. M/s Chaiwala
18. M/s Gyan Traders

3.15 SC/ST CELL

SC/ST Cell has been constituted in the Institute to resolve all the affairs and problems related to the SC/ST Officers, Employees, and Students of the Institute.

Composition

(A) Regular members

- | | | |
|--------|-------------------------------|--|
| (i) | Prof. A. K. Sachan, CED | Chairman |
| (ii) | Dr. Nitin Singh
EED | Convener SC/
ST Cell &
Liaison Officer |
| (iii) | Dr. Arvind Kumar, ECED | Member |
| (iv) | Dr. Anupam Rawat, CED | Member |
| (v) | Dr. Abhishek Kumar, AMD | Member |
| (vi) | Sri. Anil Kumar, ECED | Member |
| (vii) | Sri. Manoj Singh Bonal
MED | Member |
| (viii) | Sri. Anant Kumar Tiwari, | Member |

Malviya Hostel
(ix) Registrar (ex-officio) Member

(B) Student members for Acad. Year 2019-20

- | | | |
|-------|-------------------------|--------------|
| (i) | Mr. Neeraj Gautam, HSS | Ph.D. Member |
| (ii) | Ms. Arti, HSS | Girl Member |
| (iii) | Mr. Prashant Kumar, AMD | P.G. Member |
| (iv) | Mr. Subodh Singh, MED | U.G. Member |

3.16 RESERVATION CELL

Reservation Cell takes care of Central Government reservation policy in the recruitment/promotion process. All advertisements for recruitment of faculty/non-faculty are routed through reservation cell. The reservation Cell is created under the direct control of Liaison Officers. Following Liaison Officers have been nominated by the Institute.

Dr. Y. K. Prajapati- Liaison Officer, OBCs.

Dr. Nitin Singh - Liaison Officer, SCs/STs (also looks after PwDs).

3.17 EXECUTIVE DEVELOPMENT CENTRE (EDC)

EDC has 35 AC and 02 Non-AC rooms, 2 Office Rooms, 02 Dining Halls & 01 Conference Hall as per the following layout:

Capacity

Floor	No. of Rooms / Hall
Ground Floor	02 Dining Hall, 08 AC Rooms
1 st Floor	01 Conference Hall, 12 AC & 02 Office Room
2 nd Floor	06 AC & 01 Non AC Room
3 rd Floor	09 AC & 01 Non AC Room

Cat.	Type of Accommodation	Tariff for Rooms	
		AC	Non-AC
Official	Single Occupancy	₹ 300/-	₹ 200/-
	Double Occupancy	₹ 350/-	₹ 250/-
Non-official	Single Occupancy	₹ 500/-	₹ 400/-
	Double Occupancy	₹ 600/-	₹ 450/-

ADMINISTRATIVE BODIES

- 4.1 Board of Governors**
- 4.2 Finance Committee**
- 4.3 Building and Works Committee**
- 4.4 Senate**

4.1 BOARD OF GOVERNORS

Constitution of the Board of Governors as per Section 11NIT Act 2007 [29 of 2007]

The Chairperson to be nominated by the Visitor

Prof. Devendra Pratap Singh
Distinguished Professor, IIT (BHU)
Varanasi - 221005 (U.P.)

Chairperson

The Director, Ex-Officio Member

Prof. Rajeev Tripathi
Director
Motilal Nehru National Institute of Technology Allahabad,
Prayagraj-211004

Member

Two persons not below the rank Joint Secretary to the India to nominated by the Central Government from amongst person of Technical education and finance.

The Additional Director General [HE]
Department of Higher Education,
Ministry of Human Resource Development,
Government of India,
Shastri Bhawan,
New Delhi - 110115.

Member

The Joint Secretary & Financial Advisor
Department of Higher Education,
Ministry of Human Resource Development,
Government of India,
Shastri Bhawan,
New Delhi - 110115.

Member

Two persons nominated by the Government of U.P.

Shri Ramniwas Jain
A-2, Sindhunagar,
Kanpur Road,
Lucknow- 226023

Member
[upto 05.03.2020]

Shri Manish Kapoor
62, Gandhinagar, Sigra,
Varanasi- 221010

Member

Two persons, at least one of whom shall be a woman, nominated by Council :

Vacant [Since 03.03.2019]

Member

Vacant [Since 03.03.2019]

Member

One Professor and one Assistant Professor or a Lecturer of the Institute nominated by the Senate.

Prof. Peeush Ranjan Agrawal
Professor
School of Management Studies
Motilal Nehru National Institute of Technology Allahabad
Prayagraj – 211004

Member
[upto 14.06.2019]

Prof. M. M. Gore
Professor
Department of Computer Science & Engineering
Motilal Nehru National Institute of Technology Allahabad
Prayagraj – 211004

Member
[w.e.f. 15.06.2019]

Prof. Laxmi Kant Mishra
Professor
Department of Civil Engineering
Motilal Nehru National Institute of Technology Allahabad
Prayagraj – 211004

Member
[upto 14.06.2019]

Dr. Vandana Agrawal
Assistant Professor
Department of Mechanical Engineering
Motilal Nehru National Institute of Technology Allahabad
Prayagraj – 211004

Member
[w.e.f. 15.06.2019]

The Director of the Indian Institute of Technology in whose zone the Institute is located, or his nominee, not below the rank of a Professor.

Director
Indian Institute of Technology Kanpur
P.O. - IIT Kanpur,
Kanpur – 208016

Member

Registrar of the Institute as Ex-Officio Secretary

Dr. Sarvesh Kumar Tiwari
Registrar
Motilal Nehru National Institute of Technology Allahabad
Prayagraj-211004

Secretary

Four regular meetings and one emergent meeting of the Board of Governors were held during the year 2019-20

4.2 FINANCE COMMITTEE

Constitution of the Finance Committee as per Statutes 10 of the First Statutes of NITs

The Chairperson Board of Governors, Ex-Officio Chairman

Prof. Devendra Pratap Singh
Distinguished Professor, IIT (BHU)
Varanasi - 221005 (U.P.)

Chairperson

The Director, Ex-Officio Member

Prof. Rajeev Tripathi
Director
Motilal Nehru National Institute of Technology Allahabad,
Prayagraj-211004

Member

Joint Secretary dealing with National Institutes of Technology or his nominee and Financial Advisor (Human Resource Development) or his nominee members

The Additional Director General [HE]
Department of Higher Education,
Ministry of Human Resource Development,
Government of India, Shastri Bhawan,
New Delhi - 110115.

Member

The Joint Secretary & Financial Advisor
Department of Higher Education,
Ministry of Human Resource Development,
Government of India, Shastri Bhawan,
New Delhi - 110115.

Member

Two persons nominated by the Board from amongst its members

The Director or his nominee
Indian Institute of Technology Kanpur
P.O. - IIT Kanpur, Kanpur – 208016

Member

Prof. Peeush Ranjan Agrawal
Professor,
School of Management Studies,
Motilal Nehru National Institute of Technology Allahabad
Prayagraj – 211004

Member
[upto 14.06.2019]

Prof. M. M. Gore
Professor
Department of Computer Science & Engineering
Motilal Nehru National Institute of Technology Allahabad
Prayagraj – 211004

Member
[w.e.f. 15.06.2019]

The Registrar, Ex-Officio Member Secretary

Dr. Sarvesh Kumar Tiwari
Registrar
Motilal Nehru National Institute of Technology Allahabad
Prayagraj – 211004

Secretary

Four meetings of the Finance Committee were held during the year 2019-20.

4.3 BUILDING AND WORKS COMMITTEE

Constitution of the Building and Works Committee as per Statutes 12 of the First Statutes of NITs.

The Director, Ex-Officio, the Chairman of the Committee

Prof. Rajeev Tripathi Director Motilal Nehru National Institute of Technology Allahabad Prayagraj-211004.	Chairman
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One member nominated by the Central Government not below the rank of Director or Deputy Secretary.

The Additional Director General [HE] Department of Higher Education, Ministry of Human Resource Development, Government of India, Shastri Bhawan, New Delhi - 110 115.	Member
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Deputy Secretary [Finance] Department of Higher Education Ministry of Human Resource Development Government of India Room No.406-C, Shastri Bhawan, New Delhi-110115.	Member
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One member nominated by the Board of Governors

Shri Rajeev Garg Former Superintending Engineer Indian Institute of Technology Kanpur.	Member
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Dean [Planning and Development] or similar position

Prof. M. M. Gore Dean [Planning & Development] Motilal Nehru National Institute of Technology Allahabad Prayagraj-211004	Member
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One expert each from Civil and Electrical Engineering wing of Central or State Government or any autonomous body of repute

Mr. Sanjeev Sehgal Addl. General Manager/ Electrical Rail Vikas Nigam Ltd. Lucknow.	Member
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(i) Vacant [upto 04.09.2019]	Member
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(ii) Mr. K. V. Reddy, IDSE GE (West) Allahabad Military Engineering Service Carrippa Road, New Cantt. Prayagraj.	Member [w.e.f. 05.09.2019 to 06.02.2020]
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Mr. Devender Singh, IDSE GE (West) Allahabad	Member [w.e.f. 07.02.2020]
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Military Engineering Service
Carrippa Road, New Cantt.
Prayagraj.

Registrar, Ex-Officio Member Secretary

Dr. Sarvesh Kumar Tiwari
Registrar
Motilal Nehru National Institute of Technology Allahabad
Prayagraj – 211004

Member Secretary

Four regular meetings of the Building and Works Committee were held during the year 2019-20.

4.4 SENATE

Constitution of the Senate as per Section 14 of the NIT Act – 2007.

The Director, ex-officio, who shall be the Chairman of the Senate.

- | | |
|------------------------------------|----------|
| 1. Prof. Rajeev Tripathi, Director | Chairman |
|------------------------------------|----------|

The Deputy Director, Ex-Officio

- | | |
|-----------------------------|--------|
| 1. Deputy Director [Vacant] | Member |
|-----------------------------|--------|

The Professors appointed or recognized as such by the Institute for the purpose of imparting instructions in the Institute.

- | | | | |
|-----------------------------|--------|----------------------------------|--------|
| 1. Prof. P. R. Agrawal | Member | 34. Prof. R. K. Nagaria | Member |
| 2. Prof. M. M. Gore | Member | 35. Prof. P. K. Mehta | Member |
| 3. Prof. K. K. Shukla | Member | 36. Prof. Ravi PrakashTewari | Member |
| 4. Prof. Rakesh Narian | Member | 37. Prof. S. J. Pawar | Member |
| 5. Prof. Anuj Jain | Member | 38. Prof. Shivesh Sharma | Member |
| 6. Prof. Suneeta Agarwal | Member | 39. Prof. Anjana Pandey | Member |
| 7. Prof. [Ms.] Geetika | Member | 40. Prof. [Mrs.] Sadhana Sachan | Member |
| 8. Prof. R. K. Singh | Member | 41. Prof. G. K. Mehrotra | Member |
| 9. Prof. Vinod Yadava | Member | 42. Prof. Y. K. Gupta | Member |
| 10. Prof. R. P. Tiwari | Member | 43. Prof. L. K. Mishra | Member |
| 11. Prof. P.K. Dutta | Member | 44. Prof. Rakesh Kumar | Member |
| 12. Prof. Haranath Kar | Member | 45. Prof. Raj Mohan Singh | Member |
| 13. Prof. Anil Kumar Sachan | Member | 46. Prof. Anil Kumar Singh | Member |
| 14. Prof. P. P. Sahay | Member | 47. Prof. D. S. Kushwaha | Member |
| 15. Prof. A. K. Singh | Member | 48. Prof. D. K. Yadav | Member |
| 16. Prof. R. D. Gupta | Member | 49. Prof. Paulson Samuel | Member |
| 17. Prof. A. D. Bhatt | Member | 50. Prof. Asheesh Kumar Singh | Member |
| 18. Prof. Sanjay Chaubey | Member | 51. Prof. Rajesh Gupta | Member |
| 19. Prof. R. K. Tripathi | Member | 52. Prof. Richa Negi | Member |
| 20. Prof. R. S. Yadav | Member | 53. Prof. Nand Kishor | Member |
| 21. Prof. V. K. Srivastava | Member | 54. Prof. Ram Awadh Mishra | Member |
| 22. Prof. R. C. Vaishya | Member | 55. Prof. Vijay Shankar Tripathi | Member |
| 23. Prof. Ram Pal Singh | Member | 56. Prof. Ambali kaSinha | Member |
| 24. Prof. Niroj Banerjee | Member | 57. Prof. Pankaj Srivastava | Member |
| 25. Prof. H. S. Goyal | Member | 58. Prof. Manoj Kumar | Member |
| 26. Prof. Vijaya Bhadauria | Member | 59. Prof. Mukul Shukla | Member |
| 27. Prof. NeerajTyagi | Member | 60. Prof. Avanish Kumar Dubey | Member |
| 28. Prof. Ravi Prakash | Member | 61. Prof. Rajeev Srivastava | Member |
| 29. Prof. Amit Dhawan | Member | 62. Prof. M. K. Khurana | Member |
| 30. Prof. Shubhi Purwar | Member | 63. Prof. S. K. Poddar | Member |
| 31. Prof. Shiv Dutt Kumar | Member | 64. Prof. S. N. Pandey | Member |
| 32. Prof. S. S. Narvi | Member | 65. Prof. Tanuj Nandan | Member |
| 33. Prof. K. N. Pandey | Member | 66. Prof. Ganesh Pd. Sahu | Member |

Three persons, one of whom shall be a woman, not being employees of this Institute, to be nominated by the Chairperson in consultation with the Director, from amongst educationists of repute, one each from the field of science, engineering and humanities.

- | | | |
|----|---|--------|
| 1. | Prof. Sumathi Rao
Professor 'H'
Department of Physics
Harish-Chandra Research Institute
Chhatnag Road, Jhansi, Allahabad | Member |
| 2. | Prof. S. N. Singh
Professor
Department of Electrical Engineering, Indian Institute of Technology Kanpur
Kanpur | Member |
| 3. | Prof. Partha Basu
Professor
Department of Humanities & Social Sciences
Indian Institute of Technology Kharagpur
Kharagpur | Member |

Registrar, Secretary of the Senate [Section 18(2) of the NIT Act]

Dr. Sarvesh Kumar Tiwari Registrar Motilal Nehru National Institute of Technology Allahabad Prayagraj-211004	Secretary
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Four regular meetings of the Senate were held during the year 2019-20.

THE STAFF

- 5.1 Academic Staff
- 5.2 Administrative Officers
- 5.3 Technical Staff
- 5.4 Ministerial Staff
- 5.5 Supporting Staff

5.1 ACADEMIC STAFF

Head of Institution

Prof. Rajeev Tripathi

Director

Sl. No.	Name	Professors Department	
1.	Dr. K. K. Shukla	Applied Mechanics	[On deputation]
2.	Dr. Anuj Jain	Applied Mechanics	
3.	Dr. Ravi Prakash Tewari	Applied Mechanics	
4.	Dr. S. J. Pawar	Applied Mechanics	
5.	Dr. P. K. Dutta	Chemistry	
6.	Dr. S. S. Narvi	Chemistry	
7.	Dr. G. K. Mehrotra	Chemistry	
8.	Dr. R. P. Tiwari	Civil Engineering	
9.	Dr. Anil Kumar Sachan	Civil Engineering	
10.	Dr. A. K. Singh	Civil Engineering	
11.	Dr. R. D. Gupta	Civil Engineering	
12.	Dr. R. C. Vaishya	Civil Engineering	
13.	Dr. Ram Pal Singh	Civil Engineering	
14.	Dr. P. K. Mehta	Civil Engineering	
15.	Dr. Y. K. Gupta	Civil Engineering	
16.	Dr. L. K. Mishra	Civil Engineering	
17.	Dr. Rakesh Kumar	Civil Engineering	
18.	Dr. Raj Mohan Singh	Civil Engineering	
19.	Dr. M. M. Gore	Computer Science Engineering	
20.	Dr. Suneeta Agarwal	Computer Science Engineering	
21.	Dr. R. S. Yadav	Computer Science Engineering	
22.	Dr. Neeraj Tyagi	Computer Science Engineering	
23.	Dr. Anil Kumar Singh	Computer Science Engineering	
24.	Dr. D. S. Kushawaha	Computer Science Engineering	
25.	Dr. D. K. Yadav	Computer Science Engineering	
26.	Dr. R. K. Singh	Electrical Engineering	
27.	Dr. R. K. Tripathi	Electrical Engineering	
28.	Dr. Shubhi Purwar	Electrical Engineering	
29.	Dr. Paulson Samuel	Electrical Engineering	
30.	Dr. Asheesh Kumar Singh	Electrical Engineering	
31.	Dr. Rajesh Gupta	Electrical Engineering	
32.	Dr. Richa Negi	Electrical Engineering	
33.	Dr. Nand Kishor	Electrical Engineering	
34.	Dr. Rajeev Tripathi [Director]	Electronics & Communication Engineering	
35.	Dr. Haranath Kar	Electronics & Communication Engineering	
36.	Dr. V. K. Srivastava	Electronics & Communication Engineering	
37.	Dr. Vijaya Bhadauria	Electronics & Communication Engineering	
38.	Dr. Amit Dhawan	Electronics & Communication Engineering	
39.	Dr. R. K. Nagaria	Electronics & Communication Engineering	
40.	Dr. Ram Awadh Mishra	Electronics & Communication Engineering	
41.	Dr. Vijay Shankar Tripathi	Electronics & Communication Engineering	
42.	Dr. Niroj Banerjee	Humanities & Social Science	[Retired on 30.04.2019]
43.	Dr. Ambalika Sinha	Humanities & Social Science	[Retired on 31.03.2020]
44.	Dr. Shiv Dutt Kumar	Mathematics	

45.	Dr. Pankaj Srivastava	Mathematics	
46.	Dr. Manoj Kumar	Mathematics	
47.	Dr. Rakesh Narian	Mechanical Engineering	
48.	Dr. Vinod Yadava	Mechanical Engineering	[On deputation]
49.	Dr. A. D. Bhatt	Mechanical Engineering	
50.	Dr. H. S. Goyal	Mechanical Engineering	
51.	Dr. Ravi Prakash	Mechanical Engineering	
52.	Dr. K. N. Pandey	Mechanical Engineering	
53.	Dr. Avanish Kumar Dubey	Mechanical Engineering	
54.	Dr. Rajeev Srivastava	Mechanical Engineering	
55.	Dr. M. K. Khurana	Mechanical Engineering	
56.	Dr. S. K. Poddar	Mechanical Engineering	[Retired on 31.08.2019]
57.	Dr. Mukul Shukla	Mechanical Engineering	
58.	Dr. P. P. Sahay	Physics	
59.	Dr. Sanjay Chaubey	Physics	[Retired on 31.01.2020]
60.	Dr. S. N. Pandey	Physics	
61.	Dr. Shivesh Sharma	Biotechnology	
62.	Dr. Anjana Pandey	Biotechnology	
63.	Dr. Sadhana Sachan	Chemical Engineering	
64.	Dr. P. R. Agrawal	School of Management Studies	[Retired on 31.12.2019]
65.	Dr. Geetika	School of Management Studies	
66.	Dr. Tanuj Nandan	School of Management Studies	
67.	Dr. Ganesh Prasad Sahu	School of Management Studies	

ASSOCIATE PROFESSORS

Sl.No.	Name	Department
1.	Dr. Ramesh Pandey	Applied Mechanics
2.	Dr. Abhishek Kumar	Applied Mechanics
3.	Dr. Akshoy Ranjan Paul	Applied Mechanics
4.	Dr. Ajaya Bharti	Applied Mechanics
5.	Dr. Anindya Bhar	Applied Mechanics
6.	Dr. V. Murari	Applied Mechanics
7.	Dr. Ashutosh Kumar Upadhyay	Applied Mechanics
8.	Dr. Nand Kumar Singh	Biotechnology
9.	Dr. Vishnu Agarwal	Biotechnology
10.	Dr. Sangeeta Negi	Biotechnology
11.	Dr. Manisha Sachan	Biotechnology
12.	Dr. Seema Nara	Biotechnology
13.	Dr. Mohd Siraj Alam	Chemical Engineering
14.	Dr. Sushil Kumar	Chemical Engineering
15.	Dr. Ashutosh Pandey	Chemistry
16.	Dr. Tamal Ghosh	Chemistry
17.	Dr. Kumar Venkatesh	Civil Engineering
18.	Dr. Nek Ram Rawal	Civil Engineering
19.	Dr. Gautam Ghosh	Civil Engineering
20.	Dr. Priya Ranjan Pal	Civil Engineering
21.	Dr. Rama Shankar	Civil Engineering
22.	Dr. Shalinee Shukla	Civil Engineering
23.	Dr. Varun Singh	Civil Engineering
24.	Dr. Hemant Kumar Pandey	Civil Engineering
25.	Dr. Mayank Pandey	Computer Science Engineering

26.	Dr. Anoj Kumar	Computer Science Engineering
27.	Mr. Rajesh Tripathi	Computer Science Engineering
28.	Mr. Manoj Wairiya	Computer Science Engineering
29.	Dr. Nitin Singh	Electrical Engineering
30.	Dr. V. Krishna Rao	Electronics & Communication Engineering
31.	Dr. Arvind Kumar	Electronics & Communication Engineering
32.	Dr. Basant Kumar	Electronics & Communication Engineering
33.	Dr. Sanjeev Rai	Electronics & Communication Engineering
34.	Dr. Manish Tiwari	Electronics & Communication Engineering
35.	Dr. Arun Prakash	Electronics & Communication Engineering
36.	Dr. Yogendra Kumar Prajapati	Electronics & Communication Engineering
37.	Dr. Santosh Kumar Gupta	Electronics & Communication Engineering
38.	Mr. Asim Mukharjee	Electronics & Communication Engineering
39.	Dr. Rajesh Kumar Shastri	Humanities & Social Science
40.	Dr. Ravindra Tripathi	Humanities & Social Science
41.	Dr. Jyotsna Sinha	Humanities & Social Science
42.	Dr. Gorakh Nath	Mathematics
43.	Dr. Mukesh Kumar	Mathematics
44.	Dr. Pramod Kumar Yadav	Mathematics
45.	Dr. Sahadev Padhye	Mathematics
46.	Dr. Pitam Singh	Mathematics
47.	Dr. Audhesh Narain	Mechanical Engineering
48.	Dr. Samir Saraswati	Mechanical Engineering
49.	Dr. S. Bhola Nath Mishra	Mechanical Engineering
50.	Dr. Venketeshwara Rao Koma	Mechanical Engineering
51.	Dr. Praveen Kumar Agrawal	Mechanical Engineering
52.	Dr. Rabindra Kumar Patel	Mechanical Engineering
53.	Dr. Dharmendra Kumar Shukla	Mechanical Engineering
54.	Dr. Jagadish Chandra Mohanta	Mechanical Engineering
55.	Dr. Manish Gupta	Mechanical Engineering
56.	Dr. Naresh Kumar	Physics
57.	Dr. Animesh Kumar Ojha	Physics
58.	Dr. Tripti Singh	School of Management Studies
59.	Dr. VibhutiTripathi	School of Management Studies

Assistant Professors		
Sl. No.	Name	Department
1.	Dr. Vivek Kumar Patel	Applied Mechanics
2.	Dr. Ashutosh Misra	Applied Mechanics
3.	Dr. R. Sujithra	Applied Mechanics
4.	Dr. Abhishek Kumar Tiwari	Applied Mechanics
5.	Dr. Anubhav Rawat	Applied Mechanics
6.	Dr. Surya Deo Yadav	Applied Mechanics
7.	Dr. Abhishek Kundu	Applied Mechanics
8.	Dr. Udhayaraman R.	Applied Mechanics
9.	Dr. Satish Kumar	Applied Mechanics
10.	Dr. Tanmoy Mondal	Applied Mechanics
11.	Dr. Radha Rani Mewaram	Biotechnology
12.	Dr. Ashutosh Mani	Biotechnology
13.	Dr. Ambak Kumar Rai	Biotechnology

[Resigned on 05.08.2019]

14.	Dr. Sameer Srivastava	Biotechnology	
15.	Dr. Joya Brata Mal	Biotechnology	
16.	Dr. Rupika Sinha	Biotechnology	
17.	Dr. Suantak Kamsonlian	Chemical Engineering	
18.	Dr. Ashish Nivrittinath Sawarkar	Chemical Engineering	
19.	Dr. Harinder Singh	Chemical Engineering	
20.	Dr. Ankur Gaur	Chemical Engineering	
21.	Dr. Shabih-UI-Hasan	Chemical Engineering	
22.	Dr. Dipesh Shikchand Patle	Chemical Engineering	
23.	Dr. Parul Katiyar	Chemical Engineering	
24.	Dr. Manju Verma	Chemical Engineering	
25.	Dr. Debolina Basu	Civil Engineering	
26.	Dr. Kumar Pallav	Civil Engineering	
27.	Dr. Vishwajeet Pratap Singh	Civil Engineering	
28.	Dr. Vijay Kumar	Civil Engineering	
29.	Dr. Anupam Rawat	Civil Engineering	
30.	Dr. Pramod Soni	Civil Engineering	
31.	Dr. Shambhavi Mishra	Civil Engineering	
32.	Dr. Krishna Kumar Mishra	Computer Science Engineering	
33.	Dr. Ranvijay	Computer Science Engineering	
34.	Dr. Shashank Srivastava	Computer Science Engineering	
35.	Dr. Divya Kumar	Computer Science Engineering	
36.	Dr. Shashwati Banerjee	Computer Science Engineering	
37.	Dr. Dinesh Singh	Computer Science Engineering	
38.	Dr. Dushyant Kumar Singh	Computer Science Engineering	
39.	Dr. Pragya Dwivedi	Computer Science Engineering	
40.	Dr. Rupesh Kumar Dewang	Computer Science Engineering	
41.	Dr. Rajitha B.	Computer Science Engineering	
42.	Dr. Sarsij Tripathi	Computer Science Engineering	
43.	Dr. Navjot Singh	Computer Science Engineering	
44.	Dr. Vibhav Prakash Singh	Computer Science Engineering	
45.	Dr. Shailendra Shukla	Computer Science Engineering	
46.	Dr. Ashish Kumar Maurya	Computer Science Engineering	
47.	Dr. Dinesh Kumar	Computer Science Engineering	
48.	Dr. J. Sathish Kumar	Computer Science Engineering	
49.	Dr. Mayukh Sarkar	Computer Science Engineering	
50.	Dr. S. R. Mohanty	Electrical Engineering	
51.	Dr. Deepak Kumar	Electrical Engineering	
52.	Dr. Navneet Kumar Singh	Electrical Engineering	
53.	Dr. Niraj Kumar Choudhary	Electrical Engineering	
54.	Dr. M. Venkatesh Naik	Electrical Engineering	
55.	Dr. Prashant Kumar Tiwari	Electrical Engineering	
56.	Dr. Himanshu Mishra	Electrical Engineering	[Resigned on 05.07.2019]
57.	Dr. Dipayan Guha	Electrical Engineering	
58.	Dr. Deepak M.	Electrical Engineering	[Resigned on 04.03.2020]
59.	Dr. Suman M.	Electrical Engineering	
60.	Dr. Saumendra Sarangi	Electrical Engineering	
61.	Dr. Indrajit Sarkar	Electrical Engineering	[Resigned on 06.03.2020]
62.	Dr. Karuppanan P.	Electronics & Communication Engineering	
63.	Dr. Shweta Tripathi	Electronics & Communication Engineering	

64.	Dr. Rajeev Gupta	Electronics & Communication Engineering	
65.	Dr. Vinay Kumar	Electronics & Communication Engineering	
66.	Dr. Vadthiya Narendar	Electronics & Communication Engineering	
67.	Dr. Bhuktare Swapnil Sopamrao	Electronics & Communication Engineering	[Resgd. on 05.07.19]
68.	Dr. Anand Sharma	Electronics & Communication Engineering	
69.	Dr. Sumit Kumar Jha	Electronics & Communication Engineering	
70.	Dr. Smriti Agarwal	Electronics & Communication Engineering	
71.	Dr. Ramji Dwivedi	GIS Cell	
72.	Dr. Manohar Yadav	GIS Cell	
73.	Dr. Sonam Agarwal	GIS Cell	
74.	Dr. Mitu Mandal	HSS	
75.	Dr. Soni Joseph	HSS	
76.	Dr. Buddakkagari Vasu	Mathematics	
77.	Dr. Surabhi Tiwari	Mathematics	
78.	Dr. Supriya Yadav	Mathematics	
79.	Dr. Prashanta Majee	Mathematics	
80.	Dr. Vandana Agrawal	Mechanical Engineering	
81.	Dr. Rahul Dev	Mechanical Engineering	
82.	Dr. Sunil Kumar Gupta	Mechanical Engineering	
83.	Dr. Pragya Shandilya	Mechanical Engineering	
84.	Dr. Bireswar Paul	Mechanical Engineering	
85.	Dr. Manoj Kumar Gupta	Mechanical Engineering	
86.	Dr. Bhore Skylab Pavalas	Mechanical Engineering	
87.	Dr. Jitendra Narayan Gangwar	Mechanical Engineering	
88.	Dr. Binayaka Nahak	Mechanical Engineering	
89.	Dr. R. Prabhu Sekar	Mechanical Engineering	
90.	Dr. Ashwini Kumar Yadav	Mechanical Engineering	
91.	Dr. Leo Samuel D.G.	Mechanical Engineering	
92.	Dr. Vineed Narayanan	Mechanical Engineering	
93.	Dr. Y. G. Bala	Mechanical Engineering	
94.	Dr. Tej Pratap	Mechanical Engineering	
95.	Dr. Shantanu Srivastava	Mechanical Engineering	
96.	Dr. Swastik Acharya	Mechanical Engineering	
97.	Dr. Pranab Kumar Kundu	Mechanical Engineering	
98.	Dr. Rakesh Kumar	SMS	
99.	Dr. Saurabh Mishra	SMS	
100.	Dr. Somen Dey	SMS	
101.	Dr. Yatish Joshi	SMS	
102.	Dr. Ravi Prakash	Physics	

Heads of the Departments			
Sl. No.	Name	Department	Remarks
1.	(i) Prof. S. J. Pawar	Applied Mechanics	upto 17.08.2019
	(ii) Dr. Ramesh Pandey	Applied Mechanics	w.e.f. 18.08.2019
2.	Dr. Nand Kishor Singh	Biotechnology	
3.	Dr. Ashutosh Pandey	Chemistry	
4.	Dr. Mohd. Siraj Alam	Chemical Engineering	
5.	Prof. Anil Kumar Singh	Computer Science & Engineering	
6.	(i) Prof. R. D. Gupta	Civil Engineering	upto 26.07.2019
	(ii) Prof. R. C. Vaishya	Civil Engineering	w.e.f. 27.07.2019
7.	(i) Prof. Paulson Samuel	Electrical Engineering	upto10.07.2019

	(ii)	Prof. Asheesh Kumar Singh	Electrical Engineering	w.e.f. 11.07.2019
8.	(i)	Prof. Vijaya Bhadauriya	Electronics & Communication Engineering	upto10.08.2019
	(ii)	Prof. Amit Dhawan	Electronics & Communication Engineering	w.e.f. 11.08.2019
9.	(i)	Prof. R. P. Tiwari	Chairperson, GIS Cell	upto31.07.2019
	(ii)	Prof. R. S. Yadav	Chairperson, GIS Cell	w.e.f. 01.08.2019
10.	(i)	Prof. Niroj Banerji	Humanities & Social Sciences	upto 26.04.2019
	(ii)	Dr. Rajesh Kumar Shastri	Humanities & Social Sciences	w.e.f. 27.04.2019
11.	(i)	Prof. A. D. Bhatt	Mechanical Engineering	upto 30.12.2019
	(ii)	Prof. H. S. Goyal	Mechanical Engineering	w.e.f. 31.12.2019
12.		Prof. Manoj Kumar	Mathematics	
13.		Dr. Animesh Kumar Ojha	Physics	
14.	(i)	Prof. G. P. Sahu	School of Management Studies	upto22.08.2019
	(ii)	Dr. Tripti Singh	School of Management Studies	w.e.f. 23.08.2019

Deans				
Sl. No.		Name	Division	Remarks
1.	(i)	Prof. R. K. Tripathi	Dean [Academic]	upto 31.08.2019
	(ii)	Prof. R. K. Singh	Dean [Academic]	w.e.f. 01.09.2019
2.		Prof. M. M. Gore	Dean [Planning & Development]	
3.		Prof. Geetika	Dean [Research & Consultancy]	
4.	(i)	Prof. P.R. Agarwal	Dean [Faculty Welfare]	upto 06.08.2019
	(ii)	Prof. RakeshNarain	Dean [Faculty Welfare]	w.e.f. 07.08.2019
5.		Prof. K. N. Pandey	Dean [Student Welfare]	
6.		Prof. A. K. Singh	Dean [Resource Generation & International Affairs]	

5.2 ADMINISTRATIVE OFFICERS

Sl. No.	Name	Designation	Remarks
1.	Dr. Sarvesh K. Tiwari	Registrar	
2.	Shri Uma Shankar	Dy. Registrar (Academic)	
3.	Mrs. Manisha Yadav	Assistant Registrar	
4.	Dr. Shwetank Parihar	Assistant Registrar	
5.	Shri Satyajeet Kumar	Assistant Registrar	
6.	Shri Gyanendra Kumar Tiwari	Assistant Registrar	
7.	Shri Manas Agrawal	Assistant Registrar	
8.	Shri Mohd. Danish Ansari	Assistant Registrar	
9.	Shri Nirmal Kumar Shukla	Assistant Registrar	
10.	Shri Vivekanand	Assistant Registrar	
11.	Shri Manish Kumar	Executive Engineer	
12.	Shri Arvind Kumar Singh	Executive Engineer [Electrical Maintenance]	
13.	Shri Raghvendra Singh	SAS Officer	
14.	Dr. S. P. Verma	SAS Officer	
15.	Shri Abhay Singh	Technical Officer	
16.	Shri Ritesh Sahu	Dy. Librarian	
17.	Shri Arvind Kant Singh	Assistant Librarian	

5.3 TECHNICAL STAFF

Technical Assistant [SG-I]

1.	Shri Trivikram	4.	Shri A. K. Agrawal
2.	Shri D. K. Dwivedi	5.	Shri Sanjay Singh
3.	Shri Srikant	6.	Shri Harish Chandra
		7.	Shri S. N. Chaturvedi
		8.	Shri Pankaj Sikka
		9.	Smt. Anju Jha

Technical Assistant [SG-II]

1. Shri Manoj Singh Bonal
2. Shri Ashutosh Kr. Gupta

Senior Technical Assistant

1. Shri R. K. Sharma
2. Shri Om Prakash Parashar
3. Shri Gyanandra Singh

Technical Assistant

1. Shri Diwakar Tiwari

Assistant Engineer [SG-I]

1. Shri Sanjay Singh

Library and Information Assistant [SG-II]

1. Smt. Sangeeta Rani
2. Shri Chedi Lal Patel

Technician [SG-I]

1. Shri Algoo Prasad [Retired on 31.01.2020]
2. Shri Man Singh [Retired on 31.12.2019]
3. Shri Kanhaiya Lal
4. Shri Keshav Kumar
5. Shri Gopal Ram
6. Shri Ram Chandra

Technician [SG-II]

1. Shri Rama Shankar Gupta
2. Shri Kamla Prasad
3. Shri Moti Lal
4. Shri Rakesh Gupta
5. Shri Manoj Kr. Tripathi
6. Shri Hari Shanker
7. Shri Lal Bahadur Yadav
8. Shri Shiv Murat Yadav
9. Shri Brijesh Kumar

Senior Technician

1. Shri Satya Narain Singh
2. Shri K. P. Maurya
3. Shri Ram Bahadur Yadav [Retired on 30.04.19]

Technician

1. Shri Om Parkash Yadav
2. Shri Raja Ram
3. Shri Ram Nath
4. Shri Jagdish Prasad
5. Shri. Tribhuvan Singh Yadav
6. Shri D. S. Mishra

7. Shri T. N. Shukla
8. Shri R. S. Pal
9. Shri Riyaz Ahmad
10. Shri Om Prakash
11. Shri Jeet Lal

Pharmacist [SG-I]

1. Shri Vinod Kumar Mishra

Pharmacist [SG-II]

1. Shri Ranjeet Kumar Nirbhai

5.4 MINISTERIAL STAFF

Superintendent [SG-I]

1. Shri Shailendra Kumar Gaur

Superintendent [SG-II]

1. Shri Sangam Lal Kushwaha

Senior Superintendent

1. Shri Ganga Prasad [Retired on 30.06.19]
2. Shri Shyam Babu
3. Shri Mewalal
4. Shri Chandrabhan
5. Shri Shiv Karan Patel
6. Shri Amrit Lal
7. Shri Anil Kumar

Superintendent

1. Shri Banwari Lal [Retired on 30.06.19]
2. Shri H. I. Malik
[Compulsory retired on.02.01.2020]
3. Shri Amar Singh Yadav [Died on 21.07.19]
4. Shri Shrikant
5. Shri Anirudh Kr. Chaudhary

Assistant [SG-I]

1. Shri Sanjay Yadav

Assistant [SG-II]

1. Shri A. V. Pathak
2. Shri Vijai Pal
3. Shri Mohd. Saqib
4. Shri Sangam Lal
5. Shri Anant Kumar Tiwari
6. Smt. Veena Singh
7. Smt Madhu Yadav
8. Shri Deepak Kumar

Senior Assistant

1. Shri Vinod Kumar

Junior Assistant

1. Shri Prem Chand
2. Shri Pawan Kumar Mishra
3. Shri Ram Sanahi Maurya
4. Shri Monu Jeet Dayal
5. Shri Suraj
6. Shri Duryodhan Lal

Private Secretary

1. Shri Ram Baran

5.5 SUPPORTING STAFF

Lab Attendant [SG-I]

1. Shri Satya Narain

Lab Attendant [SG-II]

1. Shri Naresh Chandra
2. Shri Sudhakar Tiwari
3. Shri Shiv Ram Kushwaha
[Retired on 31.08.19]
4. Shri Ramesh
[Retired on 30.04.19]

Senior Lab Attendant

1. Shri Ram Dulare
2. Shri Mahesh Kumar

Office Attendant [SG-I]

1. Shri Ram Dulare
2. Smt. Nirmala Devi
3. Shri Ranjeet
4. Smt Urmila Devi

Office Attendant [SG-II]

1. Shri Masuriya Deen Maurya
2. Shri Radhey Shyam
3. Smt. Sheela
4. Shri Shankar Lal
5. Shri Anil
6. Shri Suresh
7. Shri Raju
8. Shri Prakash
9. Shri Rajendra Prasad
10. Shri Banwari Lal
11. Shri Sangam Lal Yadav
12. Shri Ram Mani Yadav
13. Shri Jehli Singh
14. Shri Nand Lal Prajapati
15. Shri H.C. Maurya
16. Shri Nand Lal [Retired on 29.02.2020]
17. Shri Hausala Prasad
18. Shri Shobh Nath Maurya
19. Shri Gulab Chandra
20. Smt Geeta Devi
21. Shri Hari Lal Yadav
22. Shri Shyam Lal Pal
23. Shri Lalloo [Retired on 31.10.19]

Senior Office Attendant

1. Shri Om Prakash Yadav
2. Shri Rajendra Kumar
3. Shri Pappu Lal
4. Shri Raj Narian Kashyap
5. Shri Ramakant Pal
6. Smt. Kaushalya Devi
7. Shri Rajendra Prasad
8. Shri Ram Jatan Maurya
9. Shri Rajesh
10. Shri Mohan Lal

ACADEMIC PROGRAMMES

- 6.1 Bachelor of Technology (B.Tech.)**
- 6.2 Master of Technology (M.Tech.)**
- 6.3 Master of Business Administration (M.B.A.)**
- 6.4 Master of Computer Applications (M.C.A.)**
- 6.5 Master of Science (M.Sc.)**
- 6.6 Doctoral Programmes (Ph.D.)**

6.1 BACHELOR OF TECHNOLOGY (B.TECH.)

DEGREE COURSES (4 YEARS / 8 SEMESTERS)

- (i) Biotechnology
- (ii) Chemical Engineering
- (iii) Civil Engineering
- (iv) Computer Science Engineering
- (v) Electrical Engineering
- (vi) Electronics and Communication Engineering
- (vii) Information Technology
- (viii) Mechanical Engineering
- (ix) Production & Industrial Engineering

6.2 MASTER OF TECHNOLOGY (M.TECH.) DEGREE COURSE

Regular (2 Years/ 4 Semesters)

Applied Mechanics Department

- (i) Applied Mechanics
- (ii) Biomedical Engineering
- (iii) Fluids Engineering
- (iv) Material Science and Engineering

Biotechnology Department

- (i) Biotechnology

Chemical Engineering Department

- (i) Chemical Engineering

Civil Engineering Department

- (i) Civil Engineering (Environmental Engineering)
- (ii) Civil Engineering (Geo-Technical Engineering)
- (iii) Civil Engineering (Structural Engineering)
- (iv) Civil Engineering (Environmental Geo-technology)

Computer Science Engineering Department

- (i) Computer Science Engineering
- (ii) Software Engineering
- (iii) Information Security

Electrical Engineering Department

- (i) Electrical Engineering (Control & Instrumentation)
- (ii) Electrical Engineering (Power Electronics & ASIC Design)

- (iii) Electrical Engineering (Power System)

Electronics and Communication Engineering Department

- (i) Electronics Engineering (Digital System)
- (ii) Electronics Engineering (Microelectronics and VLSI Design)
- (iii) Electronics Engineering (Communication System)

Mechanical Engineering Department

- (i) Mechanical Engineering (Design Engineering)
- (ii) Mechanical Engineering (Production Engineering)
- (iii) Mechanical Engineering (Computer Aided Design and Manufacturing)
- (iv) Mechanical Engineering (Product Design & Development)
- (v) Mechanical Engineering (Thermal Engineering)

GIS Cell

- (i) GIS and Remote Sensing

Part-Time (3 Years/ 6 Semesters)

Civil Engineering Department

- (i) Civil Engineering (Environmental Engineering)

Computer Science Engineering Department

- (i) Software Engineering

Electrical Engineering Department

- (i) Electrical Engineering (Power Electronics & ASIC Design)

Mechanical Engineering Department

- (i) Mechanical Engineering (Production Engineering)

6.3 MASTER OF BUSINESS ADMINISTRATION (MBA), (2 Years/ 4 Semesters)

Following specializations are offered:

- (i) Finance
- (ii) Marketing
- (iii) Human Resource
- (iv) Systems
- (v) Productions and Operations

6.4 MASTER OF COMPUTER APPLICATIONS (MCA), (3 Years/ 6 Semesters)

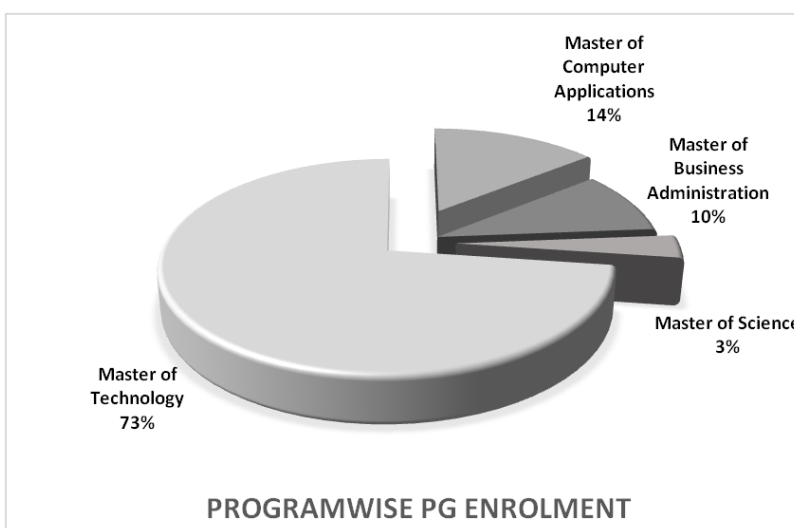
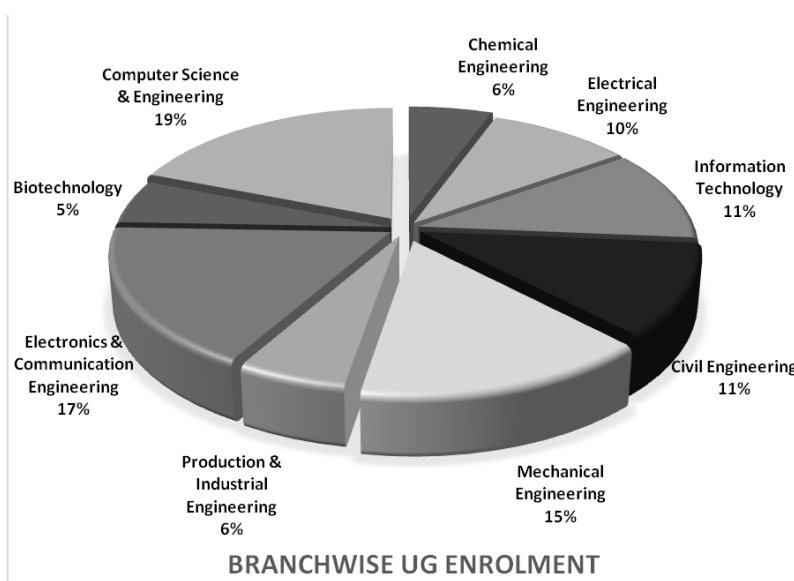
6.5 MASTER OF SCIENCE (M.Sc.), (2 Years/ 4 Semesters)

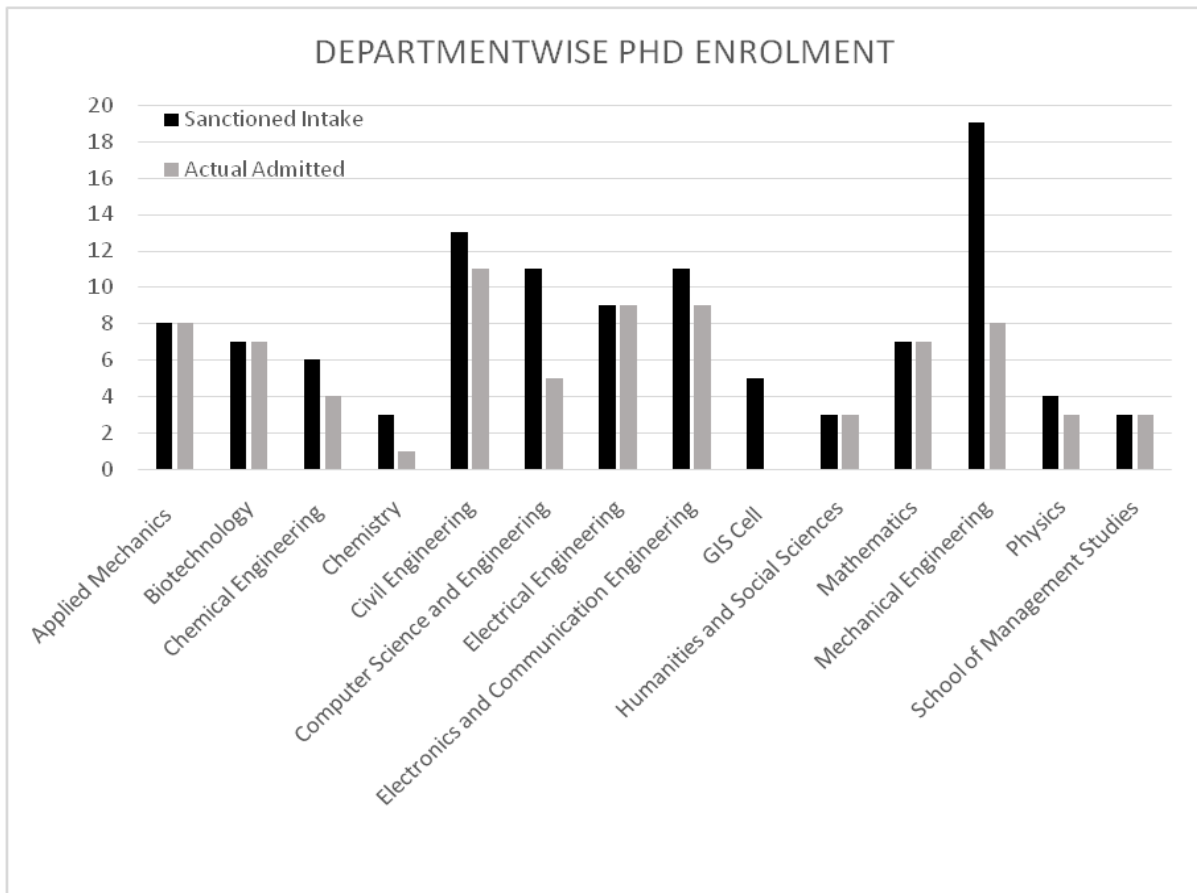
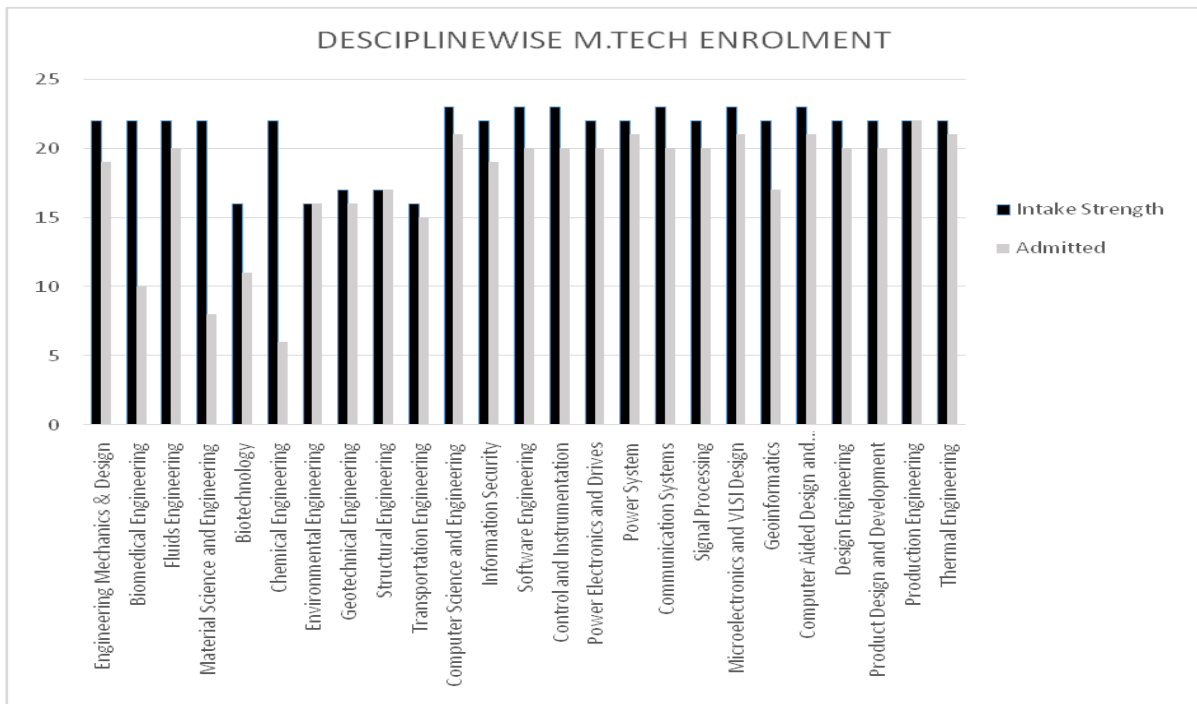
1. Mathematics and Scientific Computing.

6.6 DOCTORAL PROGRAMMES (Ph.D.)

MNNIT Allahabad has been growing rapidly as a highly reputed academic institution and research is an integral aspect. Therefore, to promote

Doctoral Programme, Institute Fellowships have been established, which are distributed among all the departments Besides, a number of non-stipendiary admission to these Doctoral Programmes is also made to facilitate faculty from other Institutes and Industry personnel to pursue M.Tech. and Ph.D. in various Departments, under QIP scheme. Large number of senior executives from industry also join under self sponsored category.





STUDENTS' DETAILS

- 7.1 Intake**
- 7.2 Admission Procedure**
- 7.3 Courses-wise Enrolment with Gender, Category wise Break-up 2019–20**
- 7.4 Programme-wise Enrolment**
- 7.5 Student Strength for U.G./ P.G./ Ph.D. Programmes**
- 7.6 Performance in Examination**
- 7.7 Gold Medals**

7.1 INTAKE:

Name of Programme	Branch	Intake
Bachelor of Technology (B.Tech.)	Biotechnology	52
	Chemical Engineering	52
	Civil Engineering	106
	Computer Science and Engineering	177
	Electrical Engineering	89
	Electronics and Communication Engineering	161
	Information Technology	105
	Mechanical Engineering	141
	Production and Industrial Engineering	52
Master of Technology (M.Tech.)	Including All Branches (25)	528
Master of Computer Application (MCA)	NA	103
Master of Business Administration (MBA)	NA	69
Master of Science (M.Sc.)	Mathematics and Scientific Computing	25
Doctor of Philosophy (Ph.D.)	Including All Branches	109
Total Student Intake (per year)		1769

7.2 ADMISSION PROCEDURE

Sl. No.	Programme	Admission Through
1.	B.Tech.	Joint Entrance Examination [JEE(Mains)] (CSAB/JoSAA, DASA, ICCR, MEA, etc.)
2.	M.Tech.	CCMT
3.	MCA	NIMCET
4.	MBA	CAT and GD/PI
5.	M.Sc.	CCMN
6.	Ph.D.	Institute Entrance Examination and QIP Centre

7.3 COURSES-WISE ENROLMENT WITH GENDER, CATEGORY WISE BREAK-UP 2019-20

Sl. No.	Programme UG	Intake	Males				Females				Total			
			Gen.	EWS	OBC	SC/ST	Gen.	EWS	OBC	SC/ST	Gen.	EWS	OBC	SC/ST
1.	B.Tech. 1 st Year	935	344	37	213	172	79	10	38	37	423	47	251	209
2.	B.Tech. 2 nd Year	878	376	----	202	168	65	----	34	29	441	----	236	197
3.	B.Tech. 3 rd Year	814	365	----	211	170	38	----	10	13	403	----	221	183
4.	B.Tech. 4 th Year	814	334	----	184	155	51	----	30	21	385	----	214	176
Total		1419	37	810	665	233	10	112	100	1652	47	922	765	

Additional Foreign Admission in UG Programme through DASA, ICCR, etc.

Sl. No.	Programme UG	Males	Females	Total
1.	B.Tech. 1 st Year	64	07	71
2.	B.Tech. 2 nd Year	55	21	76
3.	B.Tech. 3 rd Year	61	10	71
4.	B.Tech. 4 th Year	87	11	98
Total		267	49	316

P. G. Programme

Sl. No.	Programme	Intake	Males				Females				Total			
			Gen.	EWS	OBC	SC/ST	Gen.	EWS	OBC	SC/ST	Gen.	EWS	OBC	SC/ST
1.	M.Tech. 1 st Year	528	194	18	86	62	52	1	11	17	246	19	97	79
2.	M.Tech. 2 nd Year	475	165	----	98	69	33	----	12	10	198	----	110	79
Total			359	18	184	131	85	1	23	27	444	19	207	158

Sl. No.	Programme	Intake	Males				Females				Total			
			Gen.	EWS	OBC	SC/ST	Gen.	EWS	OBC	SC/ST	Gen.	EWS	OBC	SC/ST
1.	MCA 1 st Year	103	35	3	16	18	9	2	12	4	44	5	28	22
2.	MCA 2 nd Year	93	31	----	18	12	15	----	7	7	46	----	25	19
3.	MCA 3 rd Year	93	27	----	17	14	16	----	8	5	43	----	25	19
Total			93	3	51	44	40	2	27	16	133	5	78	60

Sl. No.	Programme	Intake	Males				Females				Total			
			Gen.	EWS	OBC	SC/ST	Gen.	EWS	OBC	SC/ST	Gen.	EWS	OBC	SC/ST
1.	MBA 1st Year	69	21	NIL	3	3	10	NIL	2	3	31	NIL	5	6
2.	MBA 2nd Year	62	21	----	4	4	6	----	3	2	27	----	7	6
Total			42	----	7	7	16	----	5	5	58	----	12	12

Sl. No.	Programme	Intake	Males				Females				Total			
			Gen.	EWS	OBC	SC/ST	Gen.	EWS	OBC	SC/ST	Gen.	EWS	OBC	SC/ST
1	M.Sc. 1 st Year	25	6	NIL	6	2	5	NIL	1	1	11	NIL	7	3
2	M.Sc. 2 nd Year	23	4	----	4	2	7	----	3	1	11	----	7	3
Total			10	----	10	4	12	----	4	2	22	----	14	6

Ph.D. Admission in ODD Semester 2019–20

Sl. No.	Programme	Intake	Males				Females				Total			
			Gen.	EWS	OBC	SC/ST	Gen.	EWS	OBC	SC/ST	Gen.	EWS	OBC	SC/ST
1.	Course Code 11	106	29	NIL	13	07	08	NIL	03	03	37	NIL	16	10
2.	Course Code 12	31	02	NIL	02	NIL	03	NIL	00	01	05	NIL	02	01
3.	Course Code 13	31	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Total			31	NIL	15	07	11	NIL	03	04	42	NIL	18	11

- Course Code 11 : Institute Stipendiary Full-time Research Scholar
 Course Code 12 : Self-financed Full-time Research Scholar
 Course Code 13 : Sponsored Full-time Research Scholars

Ph.D. Admission in Even Semester 2019–20

Sl. No.	Programme Ph.D.	Intake	Males				Females				Total			
			Gen.	EWS	OBC	SC/ST	Gen.	EWS	OBC	SC/ST	Gen.	EWS	OBC	SC/ST
1.	Course Code 11	44	NIL	01	05	02	02	NIL	NIL	01	02	01	05	03
2.	Course Code 12	23	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
3.	Course Code 13	31	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Total			NIL	01	05	02	02	NIL	NIL	01	02	01	05	03

- Course Code 11 : Institute Stipendiary Full-time Research Scholar
 Course Code 12 : Self-financed Full-time Research Scholar
 Course Code 13 : Sponsored Full-time Research Scholars

7.4 STUDENT STATISTICS FOR UG/PG/Ph.D. PROGRAMMES 2019-20

Programme	Male	Female	Total
B.Tech.	3198 (2931+267)	504 (455+49)	3702 (3386+316)
M.Tech.	692	136	828
MCA	191	85	276
MBA	56	26	82
M.Sc.	24	18	42
Ph.D.	61	21	82
Total	4222	790	5012

7.5 STUDENT STRENGTH 2018-19

Courses	Actual Student Strength
B.Tech.	3702
M.Tech.	828
MCA	276
MBA	82
M.Sc.	42
Ph.D.	82
Total	5012

7.6 PERFORMANCE IN EXAMINATION (PASSING OUT BATCH 2018-19)

Courses	Appeared	Passed
B.Tech.	875	860
M.Tech.	317	304
MCA	85	85
MBA	36	36
M.Sc.	12	12
Ph.D.	51	51
Total	1376	1348

7.7 GOLD MEDALS

Gold Medals for Post Graduate Examination-2019

- Gold Medal awarded to Mr. Henry Isaac (Registration No. 2017BM08) for standing first at M.Tech. Biomedical Engineering, Final Examination 2019. (CPI 8.75)
- Gold Medal awarded to Mr. Surender Yadav (Registration No. 2017BM09) for standing first at M.Tech. Biomedical Engineering, Final Examination 2019. (CPI 8.75)
- Gold Medal awarded to Mr. Tandel Dhananjay kumar Devchandbhai (Registration No. 2017EM05) for standing first at M.Tech. Engineering Mechanics and Design, Final Examination 2019. (CPI 9.35)
- Gold Medal awarded to Mr. Siddharth Sharma (Registration No. 2017FE08) for standing first at M.Tech. Fluids Engineering, Final Examination 2019. (CPI 8.85)
- Gold Medal awarded to Mr. Avaneesh Pachauri (Registration No. 2017MT16) for standing first at M.Tech. Material Science & Engineering, Final Examination 2019. (CPI 8.40)
- Gold Medal awarded to Ms. Swarnima Gupta (Registration No. 2017BT02) for standing first at M.Tech. Biotechnology, Final Examination 2019. (CPI 9.00)
- Gold Medal awarded to Ms. Deeksha Pandey (Registration No. 2017CL06) for standing first at M.Tech. Chemical Engineering, Final Examination 2019. (CPI 9.15)
- Gold Medal awarded to Ms. Pratibha Vishwakarma (Registration No. 2017EN09) for standing first at M.Tech. Civil Engineering (Environmental Engineering), Final Examination 2019. (CPI 9.15)
- Gold Medal awarded to Mr. Ashish Kumar

- Singh (Registration No. 2017GE01) for standing first at M.Tech. Civil Engineering (Geotechnical Engineering), Final Examination 2019. (CPI 8.70)
10. Gold Medal awarded to Ms. Nidhi Gupta (Registration No. 2017ST09) for standing first at M.Tech. Civil Engineering (Structural Engineering), Final Examination 2019. (CPI 8.75)
11. Gold Medal awarded to Mr. Praveen Kumar (Registration No. 2017TR03) for standing first at M.Tech. Civil Engineering (Transportation Engineering), Final Examination 2019. (CPI 9.20)
12. Gold Medal awarded to Mr. Himanshu Rohilla (Registration No. 2017CS04) for standing first at M.Tech. Computer Science & Engineering, Final Examination 2019. (CPI 9.20)
13. Gold Medal awarded to Mr. More Shardul Ramakant (Registration No. 2017IS21) for standing first at M.Tech. Information Security, Final Examination 2019. (CPI 8.70)
14. Gold Medal awarded to Ms. Ariba Tariq (Registration No. 2017SW10) for standing first at M.Tech. Software Engineering, Final Examination 2019. (CPI 8.70)
15. Gold Medal awarded Mr. Himanshu Kumar Awasthi (Registration No. 2017EE04) for standing first at M.Tech. Electrical Engineering (Control & Instrumentation), Final Examination 2019. (CPI 9.25)
16. Gold Medal awarded to Mr. Sanapala Venkataramana (Registration No. 2017PE08) for standing first at M.Tech. Electrical Engineering (Power Electronics and Drives), Final Examination 2019. (CPI 9.15)
17. Gold Medal awarded to Ms. Priya Singh (Registration No. 2017PS20) for standing first at M.Tech. Electrical Engineering (Power System), Final Examination 2019. (CPI 9.20)
18. Gold Medal awarded to Ms. Kamini Singh (Registration No. 2017CM06) for standing first at M.Tech. Electronics Engineering (Communication Systems), Final Examination 2019. (CPI 9.80)
19. Gold Medal awarded to Ms. Iqra Masroor (Registration No. 2017EL06) for standing first at M.Tech. Electronics Engineering (Digital Systems), Final Examination 2019. (CPI 9.70)
20. Gold Medal awarded to Mr. Patil Ashish Vilas (Registration No. 2017VL13) for standing first at M.Tech. Microelectronics and VLSI Design, Final Examination 2019. (CPI 10.00)
21. Gold Medal awarded to Mr. Ashwani Kumar (Registration No. 2017GI01) for standing first at M.Tech. GIS and Remote Sensing, Final Examination 2019. (CPI 8.95)
22. Gold Medal awarded to Mr. Shivam (Registration No. 2017CC20) for standing first at M.Tech. Mechanical Engineering (Computer Aided Design and Manufacturing), Final Examination 2019. (CPI 8.80)
23. Gold Medal awarded to Mr. Sumit Srivastava (Registration No. 2017DN01) for standing first at M.Tech. Mechanical Engineering (Design Engineering), Final Examination 2019. (CPI 8.65)
24. Gold Medal awarded to Ms. Ambika Rajpoot (Registration No. 2017PD01) for standing first at M.Tech. Mechanical Engineering (Product Design and Development), Final Examination 2019. (CPI 8.80)
25. Gold Medal awarded to Mr. Pushkal Awasthi (Registration No. 2017PR21) for standing first at M.Tech. Mechanical Engineering (Production Engineering), Final Examination 2019. (CPI 8.30)
26. Gold Medal awarded to Mr. Anshul Bhartiya (Registration No. 2017TH09) for standing first at M.Tech. Mechanical Engineering (Thermal Engineering), Final Examination 2019. (CPI 9.00)
27. Gold Medal awarded to Mr. Sanjeev Kumar (Registration No. 2017MB40) for standing first at Master of Business Administration, Final Examination 2019. (CPI 9.89)
28. Gold Medal awarded to Ms. Barsha Mandal (Registration No. 2016CA52) for standing first at Master of Computer Applications, Final Examination 2019. (CPI 9.14)
29. Gold Medal awarded to Mr. Mohammed Farhan (Registration No. 2016CA14) for standing first at Master of Computer Applications, Final Examination 2019. (CPI 9.14)
30. Gold Medal awarded to Mr. Ramakant Kumar (Registration No. 2017MSC09) for standing first at Master of Science (Mathematics & Scientific Computing), Final Examination 2019. (CPI 8.90)

Gold Medals for Under Graduate Examination – 2019

1. Gold Medal awarded to Ms. Komal Sethia (Registration No. 20150029) for standing first at B.Tech. (Biotechnology), Final Examination 2019. (CPI 8.94)
2. Gold Medal awarded to Mr. Anmol Sohane (Registration No. 20159019) for standing first at B.Tech. (Chemical Engineering), Final Examination 2019. (CPI 9.08)
3. Gold Medal awarded to Mr. Mohd Arish Ansari (Registration No. 20151061) for standing first at B.Tech. (Civil Engineering), Final Examination 2019. (CPI 9.31)
4. Gold Medal awarded to Ms. Stuti Jain (Registration No. 20158025) for standing first at B.Tech. (Computer Science and Engineering), Final Examination 2019. (CPI 9.61)
5. Gold Medal awarded to Mr. Arpit Gupta (Registration No. 20158086) for standing first at B.Tech. (Information Technology), Final Examination 2019. (CPI 9.16)
6. Gold Medal awarded to Mr. Sahildeep Singh Raina (Registration No. 20158070) for standing first at B.Tech. (Information Technology), Final Examination 2019. (CPI 9.16)
7. Gold Medal awarded to Mr. Abhishek Kumar Sharma (Registration No. 20152065) for standing first at B.Tech. (Electrical Engineering), Final Examination 2019. (CPI 9.33)
8. Gold Medal awarded to Mr. Tushar Baliyan (Registration No. 20151031) for standing first at B.Tech. (Electronics and Communication Engineering), Final Examination 2019. (CPI 9.67)
9. Gold Medal awarded to Mr. Priyanshu Gupta (Registration No. 20153025) for standing first at B.Tech. (Mechanical Engineering), Final Examination 2019. (CPI 9.40)
10. Gold Medal awarded to Ms. Alwa Manisha (Registration No. 20156040) for standing first at B.Tech. (Production and Industrial Engineering), Final Examination 2019. (CPI 8.89)

INSTITUTE GOLD MEDAL

1. Institute Gold Medal awarded to Mr. Tushar Baliyan (Registration No. 20151031) of B.Tech. (Electronics and Communication Engineering) for standing first amongst students of all branches of the Institute Final Examination 2019. (CPI 9.67)

GOLD MEDALS – 2019 FOR UNDER GRADUATE

1. Gold Medal awarded to Ms. Garima Goel (Registration No. 20169001) of B.Tech. (Electronics and Communication Engineering) for standing first at B.Tech. Third Year Examination 2019. (CPI 9.74)
2. Gold Medal awarded to Mr. Akshat Jain (Registration No. 20171031) of B.Tech. (Civil Engineering) for standing first at B.Tech. Second Year Examination 2019. (CPI 9.47)
3. Gold Medal awarded to Mr. Pranjal Tripathi (Registration No. 20178048) of B.Tech. (Information Technology) for standing first at B.Tech. Second Year Examination 2019. (CPI 9.47)
4. Gold Medal awarded to Mr. Aryan Mittal (Registration No. 20184069) of B.Tech. (Computer Science and Engineering) for standing first at B.Tech. First Year Examination 2019. (CPI 9.56)

RESEARCH AND DEVELOPMENT ACTIVITIES

- 8.1 Research and Consultancy (R&C) Cell
- 8.2 Research Projects
- 8.3 Consultancy Projects
- 8.4 TEQIP-III
- 8.5 Institute Industry Interaction (III) Cell

8.1 RESEARCH AND CONSULTANCY (R&C) CELL

Knowledge of latest research innovations is the key for developing the technical manpower of the nation. With this motto, the Research and Consultancy Cell at this Institute has grown significantly. Our faculty members and researchers are actively participating in Research and Development projects. Institute faculty provides a variety of consultancy and testing services to various public and private industries and also to construction departments of the State and the Central Governments. The Institute is well-endowed with high-quality equipment and advanced computing facilities. International collaborations with some leading universities and industries by the Institute provide an exciting platform for generating ideas and concepts, which are required for meaningful research.

Over the last decade, rapid advancement in computational power coupled with availability of high end, low cost CAE software, has contributed largely to the development of research and consultancy in different areas of engineering and management at this Institute. Theses and developmental research oriented activities have made a significant contribution in enriching researchers by sharing of knowledge of theory and fundamentals through mutual interactions by way of consultancy and testing projects.

Sl. No.	Activities
1.	To frame and revise rules for Research & Consultancy.
2.	To provide guidance for submitting sponsored research proposals to funding agencies such as DST, BARC, BRNS, ISRO, DRDO, AR & D Band DBT.
3.	Recruitment and management of project staff.
4.	Support for special lectures of Academic, Research and Industrial relevance for latest knowledge.
5.	Managing Institute funded research projects for newly joined faculty members.
6.	Conducting sensitization workshop for the faculty members to enhance the number of externally funded research projects.

The Research and Consultancy Cell is also publishing the R & C research Bulletin Shodh Volume-I & Volume-II biannually so as to facilitate the Interconnectivity between the Industry and researchers. Its release and distribution will form an important channel of communication between our research stakeholder and the institute.

The Research and Consultancy Cell has also organized a one day Elsevier Workshop on Research Publication Analytics on September 04, 2019.

8.2 RESEARCH PROJECTS

The Institute receives a large number of research projects from various organizations including SERB, DBT, CSIR, ICSSR, CST Lucknow, DRDO, ISRO, MNRE, UPPCB, UGC, Deity /Meity & CMC. The Institute has recorded a total 53 numbers of ongoing externally funded research projects having overall sanctioned cost of Rs. 29,51,27,156. Out of the 53 numbers of project, 17 new projects costing Rs. 7,53,96,771 were sanctioned during the year 2019-20. A total Number of 11 projects were completed in the financial year. Details attached as per **Annexure-8**.

8.3 CONSULTANCY PROJECTS

The Institute allows consultancy projects from various Government, Private, Multinational Companies and Non-Government Organizations for faculty members. The Consultancy project fee is distributed on sharing basis. In this financial year the Institute received consultancy from various clients such as Irrigation Dept., U.P. Jal Nigam, Nagar Nigam, Rites, Allahabad Development Authority, Power Grid Corporation Ltd., Ganga Pollution Control Unit, UP Project Corporation Ltd. and many others. Total fee received from the consultancy project was approx Rs5.78 crore. **Annexure-9**

8.4 TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME-PHASE-III (TEQIP-III)

Technical Education Quality Improvement Programme (TEQIP) was envisaged as a long-term programme of about 10-12 years duration to be implemented in 2-3 phases for

transformation of the Technical Education System with the World Bank assistance.

As per TEQIP structure, each phase is required to be designed on the basis of lessons learnt from the implementation of an earlier phase. TEQIP-I started a reform process in 127 Institutions followed by TEQIP-II. The reform process needs to be sustained and scaled-up for embedding gains in the system and taking the transformation to a higher level TEQIP-III was started.

Objectives

The Project has following objectives:

- (i) Improving quality and equity in engineering Institutions in focus states viz. Low Income States (LIS), eight states in the North-East of India, three Hill states viz. Himanchal Pradesh, Jammu & Kashmir, Uttarakhand and Andaman and Nicobar Island (a Union Territory).
- (ii) System-level initiatives to strengthen sector governance and performance which include widening the scope of Affiliating Technical Universities (ATU) to improve their policy, academic and management practices towards affiliated institutions, and.
- (iii) Twinning Arrangements to Build Capacity and Improve Performance of Institutions and ATUs participating in focus states.

During the year 2019-20, there were around 22 Conferences/ Seminars/ Workshops/ Short Term Courses conducted in the Institute under TEQIP-III.

8.5 INSTITUTE INDUSTRY INTERACTION (III) CELL

The Institute Industry Interaction Cell was established in the Institute in the year 1989 under the scheme of Institute Industry Interaction, Ministry of Human Resource Development. With several layers of collaboration being built by the government to

develop the Make in India program, the manpower needs have to be fulfilled in order to witness the required development. Though availability of manpower is abundant in India, well equipped manpower with employability skills is the need of the hour

There is a need to create avenues for a close academia and industry interaction through all the phases of technology development, starting from conceptualizing to commercialization. The main objectives of the Cell are:

- (i) Visits of faculty to different industries for getting first hand technological information and industrial exposure to tune their knowledge to cope with the industrial culture.
- (ii) Visits of industry executives and practicing engineers to the Institute for study of research work, laboratories, discussions and delivering lectures on subjects of mutual interest.
- (iii) Undergraduate and post graduate projects/dissertation work in industries under joint guidance of the faculty and experts from industry.
- (iv) Organizing Workshops, conferences and symposia with joint participation of the faculty and the industries.
- (v) Participation of industrial experts for modification of the curriculum to cater the present needs of industries.

The III Cell encourages its faculty, technicians and students to interact with industry in all possible ways with the spirit of deriving mutual benefit and forging continuing links with experts from different fields of expertise for knowledge sharing.

The III Cell conducted one day workshop on "Opportunities and Challenges in Indian Industries on 27.11.2019 Shri Sanjay Kudesia, General Manager, Ifco Phulpur was the Chief Guest of the workshop

SCHOLARSHIP AND ASSISTANTSHIP PROVIDED TO STUDENTS

- 9.1 Financial Help from the Institute for the Financial Year 2019-20**
- 9.2 Scholarship and Assistantship from External Agencies**

9.1 FINANCIAL HELP FROM THE INSTITUTE FOR THE FINANCIAL YEAR 2019-20

- (i) ₹9,90,000/- was given to the financially weaker students as financial aid from student welfare fund.
- (ii) Merit scholarship of ₹30,60,000/- was recommended for payment to 153 students.
- (iii) During the financial year 2019-20 Gold Medals worth ₹69,732/- were awarded to 25 students.

9.2 SCHOLARSHIP AND ASSISTANTSHIP FROM EXTERNAL AGENCIES.

- (i) Ministry of Tribal Affairs, New Delhi sanctioned scholarship of 70 ST students. Major fund was directly transferred to students account and ₹37,902/- was transferred to students account through Institute.
- (ii) ₹5,08,325/- was sanctioned to SC students by Ministry of Social Justice and Empowerment, New Delhi.

Scholarship from U.P. Government, and other agencies are as follows:

Sl. No.	Department	Place	No. of Students	Total Amount (INR)
District Social Welfare Office Prayagraj				
(i)	OBC students		307	Scholarship + Tuition Fee
(ii)	SC/ST students		156	Scholarship + Tuition Fee
(iii)	General students		251	Scholarship + Tuition Fee
(iv)	Minority students		23	Scholarship + Tuition Fee
Stipend to PG & Ph.D. Students				
(i)	M.Tech.		438	₹ 12,400/- per month
(ii)	Ph.D.		81	₹ 31,000/- per month first two year
			440	₹ 35,000/- per month from 3 rd year to 5 th year
	O. P. Gems		03	₹ 85,000/- per student + Certificate and Gold Medal
(i)	Other State Scholarship offline	Other State	175	Amount sent directly credited to the student account
(ii)	PMSSS	Jammu & Kashmir	01	₹ 1,25,000/-



Saksham (April 02, 2019)



International Yoga Day (June 21, 2019)



Ambedkar Jayanti (April 14, 2019)



Avishkar (September 18-21, 2019)

FACULTY ACHIEVEMENTS

- 10.1 Department of Applied Mechanics**
- 10.2 Department of Biotechnology**
- 10.3 Department of Civil Engineering**
- 10.4 Department of Chemical Engineering**
- 10.5 Department of Chemistry**
- 10.6 Department of Computer Science & Engineering**
- 10.7 Department of Electrical Engineering**
- 10.8 Department of Electronics & Communication Engineering**
- 10.9 GIS Cell**
- 10.10 Department of Humanities & Social Sciences**
- 10.11 Department of Mathematics**
- 10.12 Department of Mechanical Engineering**
- 10.13 Department of Physics**
- 10.14 School of Management Studies**

10.1 DEPARTMENT OF APPLIED MECHANICS

Vision:

To generate high quality human and knowledge resources in our core areas of competence and in emerging areas to make valuable contribution in technology for social and economic development of the nation and to make organized efforts for identification, monitoring and control of objective attributes of quality for continuous enhancement of academic processes, infrastructure and ambience.

Mission:

To establish a unique identity for the Institute amongst National and International Academic and Research Organisations through knowledge creation, acquisition and dissemination for the benefit of Society and Humanity.

List of Laboratories:

List of the UG Laboratory:

1. Engineering Mechanics Laboratory
2. Strength of Material Laboratory
3. Material Science & Engineering Laboratory
4. Fluid Mechanics and Hydraulic Laboratory
5. Compressible Flow Laboratory
6. Structural Analysis Laboratory
7. Computational Laboratory

List of Ph.D. Thesis Completed

Sl. No.	Name of Student	Reg. No.	Thesis Title	Thesis Supervisor(s)
1.	Mr. Sushil Kumar Singh	2013RAM51	Mechanical and Viscoelastic Investigations of Nano-filler Dispersed Epoxy Composites	Prof. Anuj Jain & Dr. Abhishek Kumar
2.	Mr. Rajendra Bahadur	2013RAM03	Analysis of doubly curved panels on rectangular and skew plan form	Dr. Ashutosh K. Upadhyay
3.	Mr. Ajitanshu Vedrtnam	2013RAM04	Fabrication, Characterization, and Simulation Studies on the Mechanical, Thermal, and Acoustic Behavior of Laminated Glass Composites of Different Interlayers and Thicknesses	Prof. S. J. Pawar
4.	Mr. Tushar Sharma	2013RAM02	Finite Element Analysis of Thin-Walled Beams	Prof. K.K. Shukla & Dr. V. Murari
5.	Mr. Avinash Kumar	2010RAM02	Modeling Simulation and Control of Bio-Inspired Actuator for Rehabilitation Applications	Prof. R. P. Tewari
6.	Mr. P. Shakti Prakash	2013RAM52	Synthesis and Characterization of Forsterite and Forsterite based Nanocomposit Coating over Biomedical Implants	Dr. S. J. Pawar

8. AMD Workshop

List of the PG Laboratory

1. Advanced Solid Mechanics Research Laboratory
2. Fluids Engineering Research Laboratory
3. Materials Research Laboratory
4. Biomedical Engineering Research Laboratory
5. Experimental Solid Mechanics Laboratory
6. Materials Development Laboratory
7. Computational Laboratory
8. DST-FIST Computational Laboratory

Courses Run by the Department:

1. M.Tech. in Engineering Mechanics & Design.
2. M.Tech. in Fluids Engineering
3. M.Tech. Material Science and Engineering
4. M.Tech. in Biomedical Engineering

Courses in which students were admitted during 04/2019 -03/2020 :

Courses Run by the Department:

1. M.Tech. in Engineering Mechanics & Design (First batch 2017-19).
2. M.Tech. in Fluids Engineering
3. M.Tech. in Material Science and Engineering
4. M.Tech. in Biomedical Engineering

Publication in International Journals

1. Yadav Krishna Kumar Rajnath, Akshoy Ranjan Paul, Anuj Jain, "Flow Management in a Double-Offset Transitional Twin Air-Intake at Different Inflow Conditions", *Recent Patents on Mechanical Engineering*, vol.12, Issue 2, pp.168-179, 04/2019, Published by Bentham Science. (Scopus)
2. Ashutosh Kumar Jaiswal, Atiq Ur Rehman, Akshoy Ranjan Paul, Anuj Jain, "Detection of Cavitation through Acoustic Generation in Centrifugal Pump Impeller", *Journal of Applied Fluid Mechanics*, vol.12, Issue 4, pp.1103-1113, 04/2019, Published by Physics Society of Iran. (SCI, IF = 0.918)
3. Akshoy Ranjan Paul, Anuj Jain & Firoz Alam, "Drag reduction of a passenger car using flow control techniques", *International Journal of Automotive Technology*, vol.20, Issue 2, pp.397-410, 04/2019, Published by Springer. (SCI, IF = 1.523)
4. Bholu Kumar, Vivek Kumar Srivastav, Anuj Jain & Akshoy Ranjan Paul, "Study of Numerical Schemes for the CFD Simulation of Human Airways", *International Journal of Integrated Engineering (Scopus)*, vol. 11, no. 8, pp. 32-40, April 2019.
5. Rawat, Anubhav and Haim Kalman, "Modification and Validation of Particulate plug-I pressure drop models", *Powder Technology*, vol.347, pp.243-254, 04/2019, Published by Elsevier. (SCI, IF = 4.142)
6. Rajat Rastogi and S. J. Pawar, "A computational study of shape memory effect and pseudoelasticity of NiTi alloy under uniaxial tension during complete and partial phase transformation", *Materials Research Express*, vol.6, Issue 5, pp.055702, 05/2019, (Scopus)
7. P. Shakti Prakash, S. J. Pawar and R. P. Tewari, "Synthesis, Characterization and Coating of Forsterite (Mg₂SiO₄) based Material over Medical Implants-A Review", *Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications*, vol.233, Issue 6, pp.1227 - 124, 06/2019, (SCI, IF = 1.625)
8. Shadma Afzal, PreetiSirohi, Alok Kumar Yadav, Manish Pratap Singh, Abhishek Kumar, Nand K.Singh, "A comparative screening of abiotic stress tolerance in early flowering rice mutants", *Journal of Biotechnology*, vol.302, pp.112-122, 06/2019, Published by Elsevier. (Scopus)
9. Atiq Ur Rehman, Akshoy Ranjan Paul, Anuj Jain, "Performance Analysis and Cavitation Prediction of Centrifugal Pump using Various Working Fluids", *Recent Patents on Mechanical Engineering*, 06/2019, (Scopus)
10. Yadav Krishna kumar R., Akshoy Ranjan Paul, Nithin Hegde, Anuj Jain, "A Comparison of Circular and Slotted Synthetic Jets for Flow Control in a Twin Air-Intake", *Defence Science Journal*, pp. Accepted, 06/2019, Published by DRDO. (SCI, IF = 0.589)
11. A. Shrivastava and V. K. Patel, "Effect of Injection Angle of Primary and Secondary Holes on the Mixing and Combustion in a Can Type Combustor using CFD", *SN Applied Sciences*, vol.1, Issue 7, pp.786, 06/2019, Published by Springer Nature journal.
12. Vivek Kumar Srivastav, Akshoy R. Paul & Anuj Jain, "Capturing the Wall Turbulence in CFD Simulation of Human Respiratory Tract", *Mathematics and Computers in Simulation*, vol.160, pp.23-38, 06/2019, Published by Elsevier. (SCI, IF = 1.409)
13. Kishor Kalauni and S. J. Pawar, "A Review on the Taxonomy, Factors Associated with Sound Absorption and Theoretical Modelling of Porous Sound Absorbing Materials", *Journal of Porous Materials*, vol.26, Issue 6, pp.1795-1819, 07/2019, Published by Springer US. (SCI, IF= 1.947)
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15. Ashutosh Kumar Jaiswal, Atiq Ur Rehman, Akshoy Ranjan Paul, Anuj Jain, "Detection of Cavitation through Acoustic Generation in Centrifugal Pump Impeller", *Journal of Applied*

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16. Prakash, J., Tripathi, D., Tiwari, A. K., Sait, S. M., & Ellahi, R., "Peristaltic Pumping of Nano fluids through a Tapered Channel in a Porous Environment: Applications in Blood Flow", *Symmetry*, vol.11, Issue 7, pp.868, 07/2019, Published by Elsevier. (SCI, IF = 2.143)
 17. Rawat, Anubhav, S N Singh & V. Seshadri, "Computational Investigation on the Flow of High Concentration Fly Ash Slurries through Converging-Diverging Bends", *International Journal of Coal Preparation and Utilization*, 07/2019, Published by Taylor & Francis. (SCI, IF = 2.034)
 18. Rahul Singh, Gaurav Rajan, B. Kranthi Kumar, Raviraj Verma, R. Jayaganthan & Abhishek Kumar, "Numerical Analysis of Constrained Groove Pressing and Mechanical Behaviour of Processed 316L Stainless Steel", *Materials Science Forum*, vol.969, pp.901-908, 08/2019, (Scopus)
 19. Vivek Kumar Srivastav, Anuj Jain and Akshoy Ranjan Paul, "Computational Study of Drug Delivery in Tumorous Human Airways", *International Journal of Computing Science and Mathematics*, pp. In Press, 08/2019, Published by Inder Science. (Scopus)
 20. Rahul Singh, Surya Deo Yadav, Nikhil Malviya, Sunkulp Goel, R. Jayaganthan & Abhishek Kumar, "Finite Element Analysis and Mechanical Behavior of 316L Stainless Steel Processed by Room Temperature Rolling", *Materials Science Forum*, vol.969, pp.508-516, 08/2019. (Scopus)
 21. Singh Ashish K. & Bhar A., "Isogeometric FE Analysis of CNT Reinforced Composite Plates: Free Vibration", *SN Applied Sciences*, vol.1, Issue 9, 08/2019, Published by Springer Nature.
 22. Sawan Kumar, Ajitanshu Vedrtam, and S. J Pawar, "Effect of wood dust type on mechanical properties, wear behavior, biodegradability, and resistance to natural weathering of wood-plastic composites", *Frontiers of Structural and Civil Engineering*, vol.13, Issue 6, pp.1446-1462, 09/2019, Published by Springer Nature Switzerland AG. Part of Springer Nature. (SCI, IF = 1.272)
 23. Singh S., & Kumar A, "Selection of Core shell Material based Electromagnetic Wave Absorbers in 2 to18 GHz using Topsis and Vikor Ranking Methods", *Defence Science Journal*, vol.69, Issue 5, pp.431-436, 09/2019, (SCI, IF = 0.589)
 24. Dattatrey M., Tiwari A.K., Ghosal B., Singh, J., "Predicting Bone Modeling Parameters in Response to Mechanical Loading,", *IEEE Access*, vol.7, Issue 1, pp.2561-12257, 09/2019, Published by IEEE. (SCI, IF = 3.745)
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 26. P. Shakti Prakash, T. S. Sharan, S. J. Pawar, R. P. Tewari, S. Sharma, "Wavelet based noise removal from Raman signal to study PLD coated Forsterite-Hydroxyapatite thin film on Stainless Steel 316L substrate", *Journal of Applied Spectroscopy*, 09/2019, Published by Springer. (SCI)
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32. Yogesh Iyer Murthy, Sumit Gandhi, Abhishek Kumar, "Micro characterization of pure Mg and AZ91D used as sacrificial anodes in reinforced cement concrete", *International Journal of Science Technology and Research*, vol.8, Issue 11, pp.400-403, 12/2019, (Scopus)
33. Sushil Kumar Singh, Deepak Singh, Abhishek Kumar and Anuj Jain, "An analysis of mechanical and viscoelastic behavior of nano-SiO₂ dispersed epoxy composites", *Silicon*, 12/2019, Published by Springer Netherlands. (SCI, IF = 1.499)
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38. Yogesh Iyer Murthy, Sumit Gandhi, Abhishek Kumar, "Magnesium alloy anodes for corrosion prevention of reinforcements in concrete", *International Journal on Emerging Technologies*, vol.11, Issue 2, pp.656-661, 01/2020, (Scopus)
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40. G. Tiwari, J. Kumar, V. Prasad and V. K. Patel, "Derivation of Cavitation Characteristics of a 3MW Prototype Francis Turbine through Numerical Hydrodynamic Analysis", *Materials Today: Proceedings Journal*, vol.26, Issue 2, pp.1439-1488, 01/2020, Published by Elsevier. (Scopus)
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42. Kumar R., Salil Khanna, Tiwari A. K., Tripathi D., Sharma N. N., "Estimation of Loading-Driven Fluid-Flow Pattern in Lacunar-Canalicular Space Using Fluid Structure Interaction", *Journal of Physics*, vol.1504, Issue 2020, pp.012006, 01/2020, Published by IOP Science. (Scopus)
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46. Samarjit Singh, Abhishek Kumar, Smriti Agarwal, Dharmendra Singh, "Synthesis and tunable microwave absorption characteristics of flower-like Ni/SiC composites", *Journal of Magnetism*

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48. Baghel Yatish Kumar, Jitendra Kumar, Brij Kishore, Anubhav Rawat, and Vivek Kumar Patel, "Effect of Hot Forging on the Slurry Erosion Wear of AISI316 and AISI410 Steel", Materials Today: Proceedings., pp.1740-1745, 03/2020, Published by Elsevier. (Scopus)
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53. Yadav Krishna Kumar, Rajnath, Akshoy Ranjan Paul, Nithin Hegde, Anuj Jain, "A Comparison of Circular and Slotted Synthetic Jets for Flow Control in a Twin Air-Intake", Defence Science Journal, vol.70, Issue 2, pp.113-121, 03/2020, Published by DRDO. (SCI, IF = 0.589)

Publication in National Journals

1. S. Kumar, P. S. Prakash, S. K. Barnwal, S. J. Pawar, R. P. Tewari, Gopal Ji, R. Prakash, "Dip Coating of Forsterite-Hydroxyapatite-Poly (ϵ -Caprolactone) nanocomposites on Ti6Al4V substrates for its corrosion prevention", Indian Journal of Chemical Technology, 06/2019. (SC, IF = 0.614)

Publication in International Conferences

1. Rajat Rastogi and S. J. Pawar, "Finite Element Simulation of PZT-5H Ring Actuator for Acoustophoresis", 4th International Conference on Nanotechnology for Better Living, "ICNBL-2019" Theme: Technological Advancements of Polymer Composites, Indian Institute of Technology Kanpur, India, 04/2019.
2. Devashish Sen, Rohini Srivastava, Nitin Sahai, R. P. Tewari & Basant Kumar, "Development of IoT enabled Low Cost Management System for m-Cardiology", International Conference on "Advances in Electronics, Electrical & Computational Intelligence (ICAEEC-2019)", Indian Institute of Information Technology-Allahabad, Prayagraj, India, 06/2019.
3. Kumar, S., Kunal Kumar, Prabhat Thakur & Prakash Kumar, "Design and Analysis of MFC based Energy Harvesting Systems", CPIE-2019, NIT Jalandhar, Punjab, India, 06/2019.
4. Firoz Alam, Khondkar Saleque, Saifuddin Ahsan, Quamrul Alam, Akshoy Ranjan Paul, Somnath Chattopadhyaya and Nawshad Haque, "The Use of Natural Gas and LPG in Bangladesh and Northeast Indian Economic Development", Abstract Proceedings of International Conference on Water, Energy, and Environmental Sustainability 2020 (WEES 2020), 13-15 January 2020, NIT Durgapur (India), Paper ID: IL-01, p. 1.
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- “Lower limb muscle force estimation for fast bowlers in cricket”, 6th World Congress of Science and Medicine in Cricket (WCSMC 2019), Loughborough University, Loughborough, United Kingdom., 07/2019.
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 8. Ashish Mishra, Akshoy R. Paul, Anuj Jain, Firoz Alam, “Design and analysis of synthetic jet for microchannel cooling”, 16th United Kingdom Heat Transfer Conference (UKHTC-2019), University of Nottingham (U.K.), Paper ID-1, 09/2019, Published by University of Nottingham (U.K.).
 9. Harun Chowdhury, Firoz Alam, Mitchell Rose, Jordan Gale, Akshoy Ranjan Paul, “An Experimental Study on Vent Locations in Road Racing Bicycle Helmet to Optimise Thermal Comfort and Aerodynamic Efficiency”, 16th United Kingdom Heat Transfer Conference (UKHTC-2019), University of Nottingham (U.K.), pp.Paper ID-1, 09/2019, Published by University of Nottingham (U.K.).
 10. Singh Ashish K. and Bhar A., “Dynamic Behavior of Functionally Graded CNT Reinforced Composite Plates: An Isogeometric Finite Element Analysis Approach”, 6th International Conference on Ship and Offshore Technology (ICSOT) 2019, IIT Kharagpur, India, pp.47-52 (Pap, 11/2019, Published by the Royal Institution of Naval Architects (RINA).
 11. Bavin Loganathan, Harun Chowdhury, Hamed Allehibi, Firoz Alam and Akshoy Ranjan Paul, “A Micro Multi-Blade Vertical Axis Wind Turbine for Built-up Areas”, 16th Asian Congress of Fluid Mechanics (16ACFM), JNCASR, Bangalore (India), pp. PaperID, 12/2019, Published by JNCASR, Bangalore (India).
 12. J. Kumar, Y. K. Baghel, R. Shrivastava and V. K. Patel, “Effect of Additives on Erosion Behaviour of Slurry Pumps Material”, 2nd International Conference on Mechanical Materials and Renewable Energy (ICMMRE-2019), SMU Sikkim, 12/2019, Published by AIP.
 13. Singh Ashish Kumar and Bhar A., “Static Response of Isotropic and Laminated Composite Plates: An Isogeometric Finite Element Approach”, International Conference on Energy, Environment & Material Sciences (ICEEM-2019), MMMUT Gorakhpur, U.P., India, pp. PaperID-62, 12/2019, Published by ICEEM.
 14. Abhishek Kundu, Murugan Thangadurai, Sudipta De, “Navier-Stokes simulation of shock tube generated blast wave interaction with a rectangular object at higher shock Mach number”, Asian Congress of Fluid Mechanics, Bengaluru, pp.1-6, 12/2019, Published by Springer.
 15. Firoz Alam, Rashid Sarkar, Akshoy Ranjan Paul, and Abdul Aziz Aldiab, “Nuclear Power Plants and Human Resources Development in South Asia”, 7th International Conference on Advances in Energy Research, IIT Bombay, Mumbai (India), pp. Paper ID-3, 12/2019, Published by IIT Bombay, Mumbai (India).
 16. Y. K. Baghel, J. Kumar and V. K. Patel, “Effect of Surface Hardness of the Material on the Slurry Erosion Wear of AISI 420”, 2nd International Conference on Mechanical Materials and Renewable Energy (ICMMRE-2019), SMU Sikkim, 12/2019, Published by AIP.
 17. Richa Chauhan and Bhar A., “Static Energy Absorption capacity of Grid Stiffened Composite Plates”, International Conference on Energy, Environment & Material Sciences (ICEEM-2019), MMMUT Gorakhpur, U.P., India, pp. PaperID-67, 12/2019, Published by ICEEM.
 18. Suvanjan Bhattacharya, Md. Anisur Rahman, Aakash Jhunjunwala, Ranjib Biswas, Akshoy Ranjan Paul, “Transport phenomenon over array of diamond cylinders with varying inlet turbulent intensity”, 25th National and 3rd International ISHMT-ASTFE Heat and Mass Transfer Conference (IHMTTC-2019), IIT Roorkee (India), Paper ID-4, 12/2019, Published by IIT Roorkee (India).
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- MMMTU Gorakhpur, pp.--, 12/2019, Published by IEEE (Xplore).
20. G. Tiwari, S. N. Shukla, V. Prasad & V. K. Patel, "Numerical Investigation of Hydrodynamics of the Cavitating Turbulent Flow in a Low Head Prototype Francis Turbine", 2nd International Conference on Mechanical Materials and Renewable Energy (ICMMRE-2019), SMU Sikkim, 12/2019, Published by AIP.
 21. Patibandla B.L.V. Ramana, Akshoy Ranjan Paul, Anuj Jain, Kazuo Matsuura, "Computational Study on Dynamic Stall and Flow Control in a Pitching Airfoil", 16th Asian Congress of Fluid Mechanics (16ACFM), JNCASR, Bangalore (India), pp. PaperID: 12/2019, Published by JNCASR, Bangalore (India).
 22. Ashutosh Singh, A. K. Upadhyay & K. K. Shukla, "Low-Velocity Impact Analysis and Energy Absorption Behaviour of Corrugated Core Sandwich", International Conference on Energy, Environment & Material Sciences (ICE2M), MMMTU Gorakhpur, pp.--, 12/2019, Published by IEEE Xplore.
 23. Saurabh Kureel & V. Murari, "Effect of geometry of dropped-off edges on the impact response of woven composite laminate with ply drops", Second International Conference on Mechanical, Materials and Renewable Energy (ICMMRE 2019), Majitar, Sikkim, 12/2019.
 24. Vivek Kumar Srivastav, Anuj Jain & A. R. Paul, "Computational Studies of Aerosolized Drug Deposition in Human Respiratory Tract", 16th Asian Congress of Fluid Mechanics (16ACFM), JNCASR, Bangalore (India), pp. PaperID: 12/2019, Published by JNCASR, Bangalore (India).
 25. Akshoy Ranjan Paul, Firoz Alam, Nawshad Haque, Somnath Chattopadhyaya, Kalyan Adhikari, "Utilization of Renewable Energy in Irrigation System of Indian Ganges Basin", International Conference on Water, Energy, and Environmental Sustainability 2020 (WEES 2020), NIT Durgapur, pp. PaperID: 01/2020, Published by NIT Durgapur.
 26. Firoz Alam, Saifuddin Ahsan, Kalyan Adhikari, Quamrul Alam, Akshoy Ranjan Paul, Somnath Chattopadhyaya, Rashid Sarkar and Nawshad Haque, "Hydropower and Ecology in the Central Himalayan Region", International Conference on Water, Energy, and Environmental Sustainability 2020 (WEES 2020), NIT Durgapur, pp. PaperID: 01/2020, Published by NIT Durgapur.
 27. Ansab Khan, Abhishek Kundu, A. R. Paul, "Numerical simulation of interaction of blast wave generated from cannon with wall at different pressure ratio", KIIT Thermo 2020, Bhubaneswar, pp.11, 01/2020, Published by Springer.
 28. Jublee John Mili, Tanmoy Mondal and Akshoy Ranjan Paul, "Fluid Flow and Heat Transfer Characteristics for an Impinging Jet with Various Angles of Inclination of Impingement Surface", International Conference on Thermofluids-2020, KIIT Bhubaneswar, pp. Paper ID-1, 01/2020, Published by KIIT Bhubaneswar.
 29. Vineet Kumar Tiwari, Tanmoy Mondal, Akshoy Ranjan Paul, "Numerical simulation on impact of a liquid droplet on a deep liquid pool for low impact velocities", International Conference on Thermofluids-2020, KIIT Bhubaneswar, pp. Paper ID-5, 01/2020, Published by KIIT Bhubaneswar.
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 32. Mohamed Zaid, Harun Chowdhury, Bavin Loganathan, Mohamed Waleed, Firoz Alam, Ibrahim Sultan and Akshoy Ranjan Paul, "CFD analysis of a vertical axis wind turbine", International Conference on Energy and Sustainable Development (ICESD-2020),

- Jadavpur University, Kolkata, pp.481-484, 02/2020, Published by Jadavpur University and The Institution of Engineers (India), Kolkata.
33. Shashi Kala, A. Mishra, "Battery technologies & its future prospects", International Conference on Energy and Environmental Technologies for Sustainable Development (Chemconflux2020), MNNIT Allahabad, 02/2020.
 34. Singh Ashish Kumar and Bhar A., "Isogeometric FE analysis of laminated composite and functionally graded CNT reinforced composite plates using HSDT", 10th International Conference on Materials Processing and Characterization (ICMPC-2020), GLA University, Mathura, U.P., India, pp. MATPR-S-19, 02/2020, Published by ICMPC.
 35. Abhishek Gupta, Akshoy Ranjan Paul, Ramesh K. Agarwal, "Effects of Well Orientation and Length for Geological Carbon Sequestration in a Saline Aquifer", International Conference on Energy and Sustainable Development (ICESD-2020), Jadavpur University (Kolkata), pp.473-476, 02/2020, Published by Jadavpur University and The Institution of Engineers (India), Kolkata.
 36. Sangharsh Kumar Singh, A. K. Upadhyay and Ramesh Pandey, "A numerical analysis of effect of variation of groove on thin-walled tube under quasi-static load", 10th International Conference of Materials Processing and Characterization, GLA Mathura, 02/2020.
 37. Shalini Verma, Akshoy Ranjan Paul, Firoz Alam, "Investigation of aeroelasticity in HAWT blade with winglet", International Conference on Energy and Sustainable Development (ICESD-2020), Jadavpur University (Kolkata), pp.477-480, 02/2020, Published by Jadavpur University and The Institution of Engineers (India), Kolkata.
 38. Shivangi Giri, Asma Salhi, Mathieu Lempereur, R. P. Tewari, Bhushan Borotikar, "Effect of gait speeds on lower limb muscle synergy and joint moments", Poster presented at the Congress of International Society of Biomechanics 2019, Calgary, Canada, July 31- Aug 04 2019.
 39. Tribedi Sarma, Kuldeep Kumar Saxena, Vinayak Majhi, Divya Pandey, Ravi Prakash Tewari, Nitin Sahai. "Development of active ankle foot orthotic device", Materials today Proceedings, Volume 26, Part 2, 2020, Pages – 918-921.
 40. Vipin Kumar, R. P Tewari, 'Impact of Ankle- Foot Orthosis Stiffness and Muscle Coactivation on Ankle Injury During Landing', International Conference on Emerging Trends in Communication, Control and Computing (ICONC 3-2020), Paper ID – 164. (IEEE).

Publication in National Conferences

1. Henry Isaac, A. Mishra, and Abhishek Kumar Tiwari, "Computational assessment of inter vertebral disc bulging with postural change", Indian Conference on Applied Mechanics (INCAM 2019), IISc Bangalore, 07/2019.
2. Dhananjay Tandel and V. Murari, "Effect of damage on the initiation and growth of plastic zone and its effect on the overall mechanical response", Indian Conference on Applied Mechanics (INCAM 2019), IISc Bangalore, pp.750-753, 07/2019.
3. Manish Kumar and V. Murari, "Progressive damage analysis of woven composite tube with ply-drop under compression", Indian Conference on Applied Mechanics (INCAM 2019), IISc Bangalore, pp.837-844, 07/2019.
4. Singh Ashish K. and Bhar A., "Isogeometric FE Analysis of CNT Reinforced Skew Composite Plates using HSDT: Static Analysis", Indian Conference on Applied Mechanics (INCAM) 2019, IISc Bangalore, India, pp. PaperID 21, 07/2019, Published by ISAM.
5. Sudhir Wakle, Akhileshwar Pandey, A. K. Upadhyay, K. K. Shukla, "Numerical simulation of lightning strike on carbon fiber reinforced laminates", Fourth Indian Conference on Applied Mechanics (INCAM 2019), IISc Bangalore, pp.798-801, 07/2019.
6. Shikhar Kumar Singh, Akshoy Ranjan Paul, Suvanjan Bhattacharyya, Anuj Jain, "Heat Transfer in Microtube and Wavy Channel using Nanofluid and Hybrid Nanofluid", National Conference on Industrial Applications of Nano Science & Nanotechnology, MNNIT Allahabad, Prayagraj, 11/2019, Published by MNNIT Allahabad.

7. Anurag Tiwari, Siddharth Sharma, Vivek Kumar Srivastav and Anuj Jain, "Computational Study on Pressurized Metered Dose Inhaler", National Conference on Sustainable and Recent Innovation in Science & Engineering (SINRISE-2019), Motihari (Bihar), pp. ISBN: 978-, 11/2019.
8. Yadav Krishnakumar Rajnath, Suvanjan Bhattacharyya, Akshoy Ranjan Paul, "Active Flow Control in Twin Air Intake in presence of Inlet Swirl", National Conference on Sustainable and Recent Innovation in Science & Engineering (SINRISE-2019), Motihari (Bihar), pp. ISBN: 978-, 11/2019, Published by Motihari College of Engineering.
9. Shalini Verma, Akshoy Ranjan Paul, "Effects of Turbulence and Winglet on Aerodynamic and Stall Characteristics of HAWT", National Conference on Sustainable and Recent Innovation in Science & Engineering (SINRISE-2019), Motihari (Bihar), pp. ISBN: 978-, 11/2019, Published by Motihari College of Engineering.
10. Abhishek Gupta, Akshoy Ranjan Paul, "Effects of Relative Permeability and Capillary Pressure on CO₂-Plume Migration during CO₂ Injection in Saline Aquifers", National Conference on Sustainable and Recent Innovation in Science & Engineering (SINRISE-2019), Motihari (Bihar), pp. ISBN: 978-, 11/2019, Published by Motihari College of Engineering.
11. Sonali Ray, Meenakshi Sharma, Rohini Srivastava, Nitin Sahai, R. P. Tewari & Basant Kumar, "Implementation of Low Delay Dual Chamber Pacemaker Using Verilog", SPIN 2019, DOI: 10.1109/SPIN.2019.8711746
12. Devashish Sen, Rohini Srivastava, Nitin Sahai, R. P. Tewari and Basant Kumar, "Development of IoT Enabled Low Cost Management System for m-Cardiology (April 11, 2020). Proceedings of the International Conference on Advances in Electronics, Electrical & Computational Intelligence (ICAEEC) 2019. Available at SSRN: <https://ssrn.com/abstract=3573502> or <http://dx.doi.org/10.2139/ssrn.3573502>, ICAEEC-2019.
13. Naveen Kumar, Arun Kumar, Prabal Gupta, Rohini Srivastava, R. P. Tewari, Nitin Sahai and Basant Kumar, "Development of Cloud Based Multi Modal m-Cardiac Management System" Accepted and Presented in VCAS-2019.

Patents:

1. Patent no.201911003426A, entitled an economical, automated, non-invasive device for spinal curvature measurement, Applied on 05/04/2019. The details are follows <Patenter: Manipal University Jaipur.
2. Patent no. CRN3500, Entitled a smart dustbin to manage domestic waste, Applied on 18/07/2019. The details are follows < The dustbin can segregate differet types of waste (organic, Inorganic, Solid etc.

Reviewer in International Journals and Conferences

Sl. No.	Faculty Name	Journal Name
1.	Dr. S. J. Pawar	Journal of Composite Materials Green Materials Journal of Industrial Textiles Journal of IET Nanobiotechnology National Seminar on "Advances in Product Design IEEE Sponsored Conference titled: "Students' Conference on Engineering and Systems (SCES-2013) 3 rd International Conference on Mechanical Properties of Materials (ICMPM 2016), December 14-17, 2016, Venice, Italy. 3 rd International Conference on Mechanical Properties of Materials (ICMPM 2016). IEEE sponsored International Conference on Advances in Mechanical, Industrial, Automation and Management Systems (AMIAMS 2017), February 3-5, 2017 organized by Department of Mechanical Engineering, Motilal Nehru National Institute of Technology Allahabad.

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| | | IEEE sponsored International Conference on Advances in Mechanical, Industrial, Automation and Management Systems (AMIAMS 2017) |
| | | 4 th International Conference on Mechanical Properties of Materials (ICMPM 2017). |
| | | 2 nd International Conference on Future Learning Aspects of Mechanical Engineering (FLAME – 2020). |
| | | International Conference on Advances in Material Science (ICAMS 2020). |
| 2. | Dr. Ramesh Pandey | Aerospace Engineering.
Composite Structures.
A refined five-unknown higher-order model including transverse hydrothermal deformation”, COST-D-16-00219
Advances in Mechanical, Industrial, Automation and Management Systems (AMIAMS 2017) |
| 3. | Dr. Akshoy Ranjan Paul | 6 th International and 43 rd National Conference on Fluid Mechanics & Fluid Power (FMFP-2016)
Journal of Cleaner Production
Journal of Applied Fluid Mechanics (JAFM)
ASME 2017 Gas Turbine India Conference (GT India-2017)
44 th National Conference on Fluid Mechanics & Fluid Power (FMFP-2017)
First International Conference on Mechanical Engineering (INCOM2018)
Flow Measurement and Instrumentation
Chinese Journal of Aeronautics
IMechE: Part–G: Journal of Aerospace Engineering
Journal of Mechanical Science and Technology
Defence Science Journal
International Journal of Fluid Machinery and System
Revista Brasileira de Meteorologia’
Wind Engineering |
| 4. | Dr. Ashutosh K. Upadhyay | International Communications on Heat & Mass Transfer
Applied Mathematical Modelling
International Journal of Mechanical Sciences
International Journal of Crashworthiness
3 rd International Conference on Mechanical Properties of Materials (ICMPM 2017)
Thin Walled Structures
Advances in Materials Research
International Journal of Materials and Structural Integrity
Journal of Mechanical Engg. Sciences
Journal of Aerospace Engineering
Smart Structures and Systems
Wind and Structures
Journal of The Institution of Engineers (India) Series A
International Journal of Structural Stability and Dynamics
Thin Walled Structures
Mechanics of Advanced Materials and Structures
International Journal of Mechanical Sciences |
| 5. | Dr. Abhishek Kumar | Advanced Powder Technology
International Conference on Multifunctional Materials, Structures and |

- Applications
International Conference on Recent Advances in Materials, Mechanical and Civil Engineering
Indian Conference on Applied Mechanics (INCAM 2017)
Journal of Alloys and Compounds
6. Dr. Anindya Bhar
7. Dr. R. Sujithra
8. Dr. Anuj Jain
Arabian Journal for Science and Engineering
Journal of Materials Engineering and Performance
Powder Technology
International Conference on Mechanical properties of Materials
6th international and 43rd National Conference of Fluid Mechanics and Fluid Power, (FMFP-2016)
Experimental Thermal and Fluid Science
44th National Conference of Fluid Mechanics and Fluid Power, (FMFP-2017)
Journal of Flow Visualisation and Image Processing
2nd International Conference on Material Strength and Applied Mechanics (MSAM 2019)
6th International Conference on Mechanical Properties of Materials (ICMPM 2019)
9. Dr. Ajaya Bharti
International Conference on Advanced and Agile Manufacturing System
Advances in Mechanical, Industrial, Automation and management Systems (AMIAMS-2017)
Innovations and Developments in Mechanical Engineering
10. Dr. Anubhav Rawat
Tribology in Industry.
International Conference on Quality, Productivity, Reliability, Optimization and Modelling.
Tribology Letters.
SWAYAM-2018.
Symposium and Workshop for Analytical Youth on Applied Mechanics (SWAYAM-2018).
Powder Technology.
2nd International Conference on New Frontiers in Engineering, Science and Technology.
Advances in Mechanical Engineering
Nuclear Engineering and Design
2nd International Conference on Future Learning Aspects of Mechanical Engineering (FLAME – 2020)
FDMP-Fluid Dynamics & Materials Processing
Particulate science and Technology
Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science
6th Students' Conference on Engineering & Systems (SCES-2020)
11. Dr. Abhishek Kr. Tiwari
IEEE Access
FLAME
12. Dr. Ashutosh Misra
Computer Methods in Biomechanics and Biomedical Engineering
International Conference on Structural Integrity (ICONS 2018)
Latin American Journal of Solids and Structures
Conference on Future Learning Aspects of Mechanical Engineering (FLAME – 2018)
Journal of Materials Engineering and Performance

13. Dr. Satish Kumar
 Conference on Future Learning Aspects of Mechanical Engineering (FLAME – 2020)
 IASS2020-SURREY7
 CPIE-2019
 FLAME-2020

Book(s)/ Book Chapter Authored

Sl. No.	Faculty Name (Author/ Co-author)	Book	Book Chapter	Publisher
1.	P. Sharma, P. Pal, A. Mishra, M. Bhandwa		A Novel System for Exhaust Emission Reduction of Diesel Engine by using Electrochemical Technique	Springer, Singapore
2.	Anindya Bhar	Finite Element Analysis of Stiffened Plates	Complete Book	LAP Lambert Academic Press
3.	Rawat, Anubhav, and Bhagwat S. Shishodia	Advances in Interdisciplinary Engineering	Onsite Technical and Economic Performance Evaluation of PWT (Pipeline Welding Technology): A Comparative Analysis with CRC-Evans Welding Technology.	Springer, Singapore
4.	Tiwari, A. K., and Prasad J.,	Biomanufacturing	Cortical Bone Adaptation to Mechanical Environment: Strain Energy Density vs. Fluid Motion	Springer
5.	G Tiwari, V. Prasad, S. N. Shukla and V. K. Patel	Advances in Mechanical Engineering	Derivation of Complete Performance Characteristics of a Low Head Prototype Francis Turbine Using CFD	Springer
6.	Y. K. Baghel and V. K. Patel	Advances in Mechanical Engineering	Experimental and Computational Analysis of Heat Transfer by a Turbulent Air Jet Impingement on a Flat Surface	Springer
7.	N. Devi, A. Bhar and R. Pandey	Advances in Mechanical Engineering	Isogeometric FE Analysis of Laminated Composite Plates, [in Advances in Mechanical Engineering (Select Proceedings of ICRIDME 2018), Book Series: Lect	Springer Singapore
8.	J. Prakash, G. Reddy, D. Tripathi and A.	Nanotechnology for Energy and Environmental Engineering	Model for Electroosmotic Flow of Pseudoplastic Nanofluids in Presence of Peristaltic Pumping: An Application to Smart Pumping in Energy Systems	Springer

Invited Lectures Delivered

- Lecture delivered by Dr. Akshoy Ranjan Paul at Training programme in Mining Governance, DFAT, Govt. of Australia & IIT (ISM) Dhanbad on 19/07/2019 entitled 'Occupational Health & Mining Safety.
- Lecture delivered by Dr. Akshoy Ranjan Paul at Training programme in Mining Governance, DFAT, Govt. of Australia & IIT (ISM) Dhanbad on 19/07/2019 entitled 'Renewable Energy: Indo-Afghan Cooperation in Energy Sector.
- Lecture delivered by Dr. Akshoy Ranjan Paul at TEQIP-III sponsored workshop, Motihari College of Engineering, Motihari (Bihar) on 28/08/2019 entitled 'Is there any future in Mechanical Engineering.
- Lecture delivered by Dr. Abhishek Kumar Tiwari at Short Term Training Program (STTP) on "Emerging Topics in Fluid Mechanics", NIT Uttarakhand on 17/10/2019 entitled Biofluid Dynamics: Application in Skeletal Mechano biology.

5. Lecture delivered by Dr. Akshoy Ranjan Paul at Invited Talk Series, Department of Mechanical Engineering, Vignan's Foundation of Science, Technology & Research (VFSTR), Guntur, Andhra Pradesh on 02/11/2019 entitled 'Active Flow Control: Development and Challenges.
6. Lecture delivered by Dr. Satish Kumar at Inflatable Structures and Materials for Space Applications, IIT Roorkee, IIT Roorkee on 07/11/2019 entitled Inflatable Membrane Structures.
7. Lecture delivered by Dr. Ashutosh Misra at Developing Emerging Nuclear Security Practitioners, Pandit Deendayal Petroleum University, Gandhinagar in collaboration with Texas A&M on 11/11/2019 entitled Nuclear Safety and Security regimes: understanding security levels.
8. Lecture delivered by Dr. R. Sujithra at Short term course on Advances in Composite Materials II (ACM II-2019), Department of Mechanical Engineering, MNNIT on 20/12/2019 entitled Polymer Processing, Characterization and Applications.
9. Lecture delivered by Dr. Ashutosh Misra at Short Term Course on "Advanced Trends in Manufacturing and Material Characterization, IET Bundelkhand University on 28/02/2020 entitled Macro-mechanical modeling of 3D printed Material.

Events Organized by Department

Sl. No.	Name	Title	From	To
1.	Workshop	Student Excellence & Learning Program, BIT Sindri	15.04.2019	20.04.2019
2.	Debate Programme	National Education Policy-2019, MNNIT Allahabad Prayagraj	19.07.2019	19.07.2019
3.	Workshop	Material Behaviour and Characterization under Dynamic Loading under GIAN scheme, MNNIT Allahabad	03.09.2019	07.09.2019
4.	National Conference	National Conference on "Sustainable & Recent Innovation in Science and Engineering" (Sunrise-19), Motihari College of Engineering, Bihar (India)	28.11.2019	29.11.2019

Events Attended

1. Dr. Anuj Jain attended LEAP on Leadership for Academicians Programme at IIT Kharapur during 13/05/2019 to 24/05/2019.
2. Dr. Anuj Jain attended LEAP on Leadership for Academician Programme at IFM, University of Cambridge, UK during 02/06/2019 to 06/06/2019.
3. Dr. Satish Kumar attended Faculty Development Program on Advanced Pedagogy & Digital Tool, at IIT Kharapur during 10/06/2019 to 14/06/2019.
4. Dr. Ashutosh K. Upadhyay attended National conference on Fourth Indian Conference on Applied Mechanics (INCAM 2019) at IISc Bangalore during 03/07/2019 to 05/07/2019.
5. Dr. R. Sujithra attended Workshop on NBA Accreditation: Regulations and Procedure at MNNIT during 27/07/2019 to 27/07/2019.
6. Dr. Akshoy Ranjan Paul attended International conference on 16th United Kingdom Heat Transfer Conference (UKHTC) at University of Nottingham, Nottingham (U.K.) during 08/09/2019 to 10/09/2019.
7. Dr. Akshoy Ranjan Paul attended Faculty Development Program on 'Developing Massive Open Online Courses (MOOCs)' at MNNIT Allahabad, Prayagraj during 27/09/2019 to 01/10/2019.
8. Dr. Akshoy Ranjan Paul attended Faculty Development Program on AICTE Training and Learning Programme (ATAL) on 'Block Chain' at MNNIT Allahabad, Prayagraj during 16/10/2019 to 20/10/2019.
9. Dr. Satish Kumar attended Workshop on Inflatable Structures and Materials for Space Applications, IIT Roorkee at IIT Roorkee during 07/11/2019 to 08/11/2019.
10. Dr. Satish Kumar attended Workshop on Opportunities and Challenges in Indian

- Industries at MNNIT Allahabad during 27/11/2019 to 27/11/2019.
11. Dr. Akshoy Ranjan Paul attended National Conference on "Sustainable & Recent Innovation in Science and Engineering" (SUNRISE-19) at Motihari College of Engineering, Bihar during 28/11/2019 to 29/11/2019.
12. Dr. Akshoy Ranjan Paul attended International conference on International Conference on Energy and Sustainable Development (ICESD-2020) at Jadavpur University, Kolkata during 14/02/2020 to 15/02/2020.
13. Dr. Vivek Kumar Patel attended Workshop on Energy, Environment and Multiphase Flows at IIT Kanpur during 24/02/2020 to 26/02/2020.

Research Projects Completed/Ongoing

Sl. No.	Principal Investigator /Co investigator(s)	Project Title	Funding Agency	Amount (INR)	Duration
1.	Dr. Akshoy Ranjan Paul (PI)	Flow Control in Complex Ducts using Synthetic Jets	DST-SERB Fast Track Research Scheme	23.93 Lakhs	Ongoing
2.	Dr. Akshoy Ranjan Paul (Co-PI)	Respirable Suspended Particulate Matter (RSPM) on Chronic Obstructive Pulmonary Diseases (COPD) using Computational Fluid Dynamics (CFD)	Council of Science and Technology, Govt. of U.P. under Technology Innovation scheme	11.48 Lakhs	Ongoing
3.	Dr. Anuj Jain (PI)	Effect of Respirable Suspended Particulate Matter (RSPM) on Chronic Obstructive Pulmonary Diseases (COPD) using Computational Fluid Dynamics (CFD)	Council of Science and Technology, Govt. of U.P. under Technology Innovation Scheme	13.00 Lakhs	Ongoing
4.	Dr. Anuj Jain (Co-PI)	Prototype Development of a Novel Dry Powder Inhaler (DPI) for Pulmonary Drug Delivery	Council of Science and Technology, Govt. of U.P. under Technology Innovation Scheme	11.00 Lakhs	Ongoing
5.	Dr. V. Murari (PI)	The effect of micro level progressive matrix plasticity on the macro level response of uni directional compo sites: Micromechanics based study	DST - SERB	24.86 Lakhs	Ongoing
6.	Prof. R. P. Tewari (Co-PI)	Modeling, Simulation and Development of Smart Active Ankle Foot Orthotic Device of Gait Rehabilitation	DBT Twinning Programme for The NE, Ministry of Science and Technology, Dept. of Biotechnology, Govt. of India, New Delhi	17.83 Lakhs	Ongoing
7.	Prof. R. P. Tewari (Co-PI)	Design of Neural Network based Pacemaker	DBT Twinning Programme for the NE, Ministry of Science and Technology, Depat. of Biotechnology,	14.93 Lakhs	Ongoing

8.	Dr. Akshoy Ranjan Paul (Co-PI)	And Computational Studies on Human Airways	Govt. of India, New Delhi SERB under FSER Scheme	38.50 Lakhs	Ongoing
9.	Dr. Anuj Jain (PI)	Experimental and Computational Studies on Human Airway	SERB under FSER Scheme	38.00 Lakhs	Ongoing
10.	Dr. Akshoy Ranjan Paul (PI)	Prototype Development of a Novel Dry Powder Inhaler (DPI) for Pulmonary Drug Delivery	Council of Science and Technology, Govt. of U.P. under Technology Innovation scheme.	11.94 Lakhs	Ongoing
11.	Dr. Satish Kumar (Co-PI)	Design & Development of a Proof-of-Concept Model of a Doubly Curved Membrane based Space Structure	National Project Implementation Unit (Ministry of Higher Education) as TEQIP Collaborative Research Scheme	9.75 Lakhs	Ongoing

Other Relevant Information

1. Dr. Anubhav Rawat received Post Doctorate Fellowship-IIT Bombay on 04/2019.
2. Dr. Anubhav Rawat received Post Doctorate Fellowship-Israel on 04/2019.
3. Dr. S.J. Pawar received International honorary position of "Consultant" for the Master's Program of Electro-acoustic at Feng Chia University, Taichung, Taiwan (Appointment No. 07851-48). on 08/2019.
4. Dr. Abhishek Kumar Tiwari received Best Paper Award for Kumar R., Salil Khanna, Tiwari A. K., Tripathi D., Sharma N. N., "Estimation of Loading-Driven Fluid-Flow Pattern in Lacunar-Canalicular Space Using Fluid Structure Interaction" in National Conference on Recent Advancement in Physical Sciences 2019, 19th - 20th December 2019, National Institute of Technology, Uttarakhand, India on 12/2019.
5. Dr. Abhishek Kumar Tiwari received Best Paper Award for paper Kumar R., Tiwari A. K., Tripathi D., Sharma N. N., Khadiya M., "Fluid-Structure Interaction Modelling of Physiological Loading-Induced Canalicular Fluid Motion in Osteocyte Network" in International Conference on Thermofluids 2020, 23rd-25th January 2020, KIIT Deemed to be University, Bhubaneshwar, India on 01/2020.

10.2 DEPARTMENT OF BIOTECHNOLOGY

Vision:

The biotechnology program vision is to provide quality teaching with a strong core science concepts and an application-oriented undergraduate and post-graduate education along with solid foundation in the rapidly expanding fields of biotechnology that enable them to produce high quality professionals. Our goal is to provide students with a sound knowledge and understanding of current theories, concepts and laboratory practices in biotechnology.

Mission:

To generate high quality engineering professionals by offering UG (B.Tech.) and PG (M.Tech. and Ph.D.) programmes in Biotechnology and to develop a premier biotechnology teaching and research department to cater the needs and challenges of the region and the country.

List of Laboratories:

1. Laboratory-1
2. Laboratory-2
3. Laboratory-3
4. Bioinformatics lab
5. Green house lab
6. Experimental field
7. Autoclaving and sterilization lab

Courses run by Department:

1. B. Tech. (Biotechnology)
2. M. Tech. (Biotechnology)
3. Ph. D. (Biotechnology)

Courses in which students were admitted during 04/2019 - 03/2020 :

1. B.Tech. (Biotechnology)
2. M.Tech. (Biotechnology)
3. Ph.D. (Biotechnology)

List of Ph.D. Thesis Completed

Sl.No.	Name of Student	Reg. No.	Thesis Title	Thesis Supervisor(s)
1.	Ms. Suhaga Dohare	2013RBT05	Study of Pseudomonas aeruginosa and Staphylococcus epidemidis and interspecies interaction and behavior in biofilm community.	Dr. Vishnu Agarwal
2.	Ms. Kanchan Vishwakarma	2015RBT02	Deciphering the Rhizospheric Bacterial Diversity and Root Exudates in Brassica spp: Access for Sustainable Agriculture	Dr. Shivesh Sharma
3.	Mr. Rishi Kumar Verma	2014RBT02	Gene expression profiling through next generation sequencing in rice colonized by plant growth promoting rhizobacteria	Dr. Shivesh Sharma

Publication in International Journals

1. Goff J., Terry L., Mal J., Schilling K., Pallud C., Yee N., "Role of extracellular reactive sulfur metabolites on microbial Se (0) dissolution", *Geobiology*, vol.17, Issue 3, pp.320-329, 05/2019. (SCI)
2. Singh, J., Vishwakarma, K., Ramawat, N., Rai, P., Singh, V. K., Mishra, R. K., Kumar, V., Tripathi, D. K. and Sharma, Shivesh, "Nanomaterials and microbes' interactions: a contemporary overview.", *3 Biotech*, vol.9, Issue 3, 05/2019, Published by Springer. (SCI, IF= 2.270)
3. Anjana Pandey, Saumya Srivastava, Priya Rai, Mikel Duke, "Cheese whey to biohydrogen and useful organic acids: A non-pathogenic microbial treatment by *L. acidophilus*", *Scientific Reports*, vol.9, Issue 8320, pp.1-9, 06/2019, Published by Nature publishing. (SCI, IF = 4.5)
4. Priya Rai, Ashutosh Pandey, Anjana Pandey, "In- silico mining of small sequence repeats in hydrogenase maturation subunits of *E. coli*, *Clostridium*, and *Rhodobacter*", *International Journal of Hydrogen Energy*, vol.44, Issue 33, pp.17813-1782, 06/2019, Published by Elsevier. (SCI, IF = 4.2)
5. Suriya Narayanan Murugesan, Birendra Singh Yadav, Pramod Kr. Maurya, Amit Chaudhary, Swati Singh and Ashutosh Mani, "Interaction network analysis of YBX1 for identification of therapeutic targets in adenocarcinomas.", *Journal of Biosciences*, vol.44, 06/2019, Published by Springer. (SCI, IF = 1.8)
6. Kamini Gupta, Jatinder kumar, R. P. Singh, Anjana Pandey, Priya Rai, Ashutosh Pandey, "Standardised nanostructured Ta/N-TiO₂ for environmental contaminants: an efficient visible light induced photochemical quencher for dyes", *Materials Technology*, vol.34, Issue 13, pp.765-775, 06/2019, Published by Taylor & Francis. (SCI, IF = 1.8)
7. Vishwakarma, K., Mishra, M., Patil, G., Mulkey, S., Ramawat, N., Singh, V. P., Desmukhe, R., Tripathi, D. K., Nuyyen, H. T. and Sharma, Shivesh, "Avenues of the membrane transport system in adaptation of plants to abiotic stresses", *Critical Reviews in Biotechnology*, vol.39, Issue 7, pp.861-863, 07/2019, Published by Taylor and Francis. (SCI, IF = 8.108)
8. Bankuru Navyatha, Seema Nara, "Theranostic Nanostructures for Ovarian Cancer", *Critical Reviews™ in Therapeutic Drug Carrier Systems*, vol.36, Issue 4, pp.305-371, 07/2019, Published by Begell house. (SCI, IF = 2.9)
9. Singh, S., Singh, V. P., Prasad, S. M., Sharma, Shivesh., Ramawat, N., Dubey, N. K., Tripathi,

- D. K. and Chauhan, D. K, "Interactive Effect of Silicon (Si) and Salicylic Acid (SA) in Maize Seedlings and Their Mechanisms of Cadmium (Cd) Toxicity Alleviation", *Journal of Plant Growth Regulation*, vol.38, Issue 4, pp.1587-1597, 07/2019, Published by Springer. (SCI, IF = 2.962)
10. A Singh, S Gupta, M Sachan, "Epigenetic Biomarkers in the management of ovarian cancer: current prospectives", *Frontiers in Cell and Developmental Biology*, vol.7, Issue 182, 08/2019, Published by Frontiers. (SCI, IF = 5.3)
 11. B. S. Yadav, S. Singh, Sameer Srivastava, Ashutosh Mani, "Analysis of Chickpea gene co-expression network and pathways during heavy metal stress", *Journal of Biosciences*, vol.44, Issue 99, 09/2019, Published by Springer. (SCI, IF = 1.8)
 12. Pandey Ashutosh, Srivastava Sameer, Kumar Sanjay, "Sequential optimization of essential nutrients addition in simulated dairy effluent for improved *Scenedesmus* sp ASK22 growth, lipid production and nutrients removal", *Biomass and Bioenergy*, vol.128, pp.105319, 09/2019, Published by Elsevier. (SCI, IF = 3.551)
 13. Birendra Singh Yadav, Swati Singh, Sameer Srivastava, Nand Kumar Singh & Ashutosh Mani, "Whole transcriptome expression profiling and biological network analysis of chickpea during heavy metal stress", *Journal of Plant Biochemistry and Biotechnology*, vol.28, Issue 3, pp.345-352, 09/2019, Published by Springer. (SCI, IF = 1.1)
 14. Priya Rai, Ashutosh Pandey, Anjana Pandey, "Optimization of sugar release from banana peel powder waste (BPPW) using box-behnken design (BBD): BPPW to biohydrogen conversion", *International Journal of Hydrogen Energy*, vol.44, Issue 47, pp.25505-2551, 10/2019, Published by Elsevier. (SCI, IF = 4.22)
 15. Prakash, V., Vishwakarma, K., Singh, V. P., Rai, P., Ramawat, N., Tripathi, D. K. and Sharma, Shivesh, "No and ROS implications in organization of root system architecture", *Physiologia plantarum*, vol.168, Issue 2, pp.473-489, 11/2019. (SCI, IF = 3.190)
 16. Neha Shree Maurya, Sandeep Kushwaha and Ashutosh Mani, "Recent advances and computational approaches in peptide drug discovery", *Current Pharmaceutical Design*, vol.25, Issue 46, pp.3358 - 336, 12/2019, Published by Bentham Science. (SCI, IF = 2.6)
 17. Ashutosh Pandey, Aarti Gupta, Arrabachala Sunny, Sanjay Kumar, Sameer Srivastava, "Multi-objective optimization of media components for improved algae biomass, fatty acid and starch biosynthesis from *Scenedesmus* sp. ASK22 using desirability function approach", *Renewable Energy*, 2020, Published by Elsevier. (SCI, IF = 5.439)
 18. Anjana Pandey, Saumya Srivastava, Gayatri, Priya Rai, Ashutosh Pandey, "Colorimetric Sensing of Methyl Parathion using Nanozymatic Activity of Gold Nanoparticles", *Advanced Science, Engineering and Medicine*, vol.12, Issue 2, pp.232-241, 02/2020, Published By American Scientific Publishers. (SCI, IF = 0.39)
 19. Singh, S., Prasad, S. M., Sharma, Shivesh., Dubey, N. K., Ramawat, N., Prasad, R., Singh, V. P., Tripathi, D. K. and Chauhan, D. K., "Silicon and nitric oxide mediated mechanisms of cadmium toxicity alleviation in wheat seedlings", *Physiologia Plantarum*, 02/2020, (SCI, IF= 3.190)
 20. Vaishali Aggarwal, Hardeep Singh Tuli, Falak Thakral, Paavan Singhal, Diwakar Aggarwal, Saumya Srivastava, Anjana Pandey, Katrin Sak, Mehmet Varol, Md. Asaduzzaman Khan, Gautam Sethi, "Molecular mechanisms of action of Hesperidin in cancer: recent trends and advancements", *Experimental Biology and Medicine*, vol.245, Issue 5, pp.486-97, 02/2020, Published by SAGE Publisher. (SCI, IF = 2.98)
 21. Kiran gupta, Anjana pandey, Ashutosh pandey, "Photocatalytic antibacterial performance of TiO₂ and Ag-doped TiO₂ against *S. aureus*. *P. aeruginosa* and *E. coli*", *Beilstein journal of nanotechnology*, vol.11, pp.547-549, 03/2020, (SCI, IF = 2.44)
 22. Sheetal Saini, Anuradha Dube, Amogh Anant Saha Srabuddhe, Chandreshwar Prasad Thakur, Sumit Joshi, Keerti Rawat, Ambak Kumar Rai. Comparison between Immuno-Clinico pathological Features of Experimental and

- Human Visceral Leishmaniasis by *Leishmania donovani*. *Acta Parasitologica* 65, page 57–67 (2020) Oct 2019 (Springer)
23. Pankaj Verma, Amit K Kureel, Sheetal Saini, Satya Prakash, Smita Kumari, Sarath K Kottarath, Sandeep K Srivastava, Madhu Sudan Bhat, Amit K Dinda, Chandreshwar P Thakur, Shivesh Sharma, Ambak K Rai. *Leishmania donovani* reduces the levels of retinoic acid-synthesizing enzymes in infected macrophages and favoring its own survival. *Parasitology Research* (Springer) (2019) 118:63–71
 24. Anu Singh, P. K. Dutta, Hridyesh Kumar, Amit Kumar Kureel and Ambak Kumar Rai, Improved antibacterial and antioxidant activities of gallic acid grafted chitin-glucan complex. *Journal of Polymer Research* (Springer) volume 26, Article number: 234 (Aug 2019)
 25. Amit Kumar Kureel, Smita Kumari, Sheetal Saini Satya Prakash, Bharat Singh, Ambak Kumar Rai. Identification of a novel transcript variant of the human CD6 gene that lacks exon 9. *Immunobiology* (Elsevier) Volume 224, Issue 5, Sep 2019, Pages 666-671.

Publication in International Conferences

1. Anjana Pandey and Ashutosh Pandey, "Nano-scale fluoro-biosensor for diagnosing typhoid", S3IC 2019, Munich, 04/2019.
2. Anjana Pandey, Ashutosh Pandey and Saumya Srivastava, "Methyl parathion sensing using nanozymatic activity of gold nanoclusters", S3IC, Munich, 04/2019.

Patents

1. Patent no.201911043605, entitled a novel method of GNP synthesis and its application for heavy metals (Cr³⁺, Cd²⁺ and Hg²⁺) detection, on 26/10/2019.

Reviewer in International Journals and Conferences

SI. No.	Faculty Name	Journal Name
1.	Dr. Ambak Kumar Rai	PLOS Neglected Tropical Diseases Future Science OA Asia-Pacific Journal of Clinical Oncology Horizon Research Publishing, USA Biomedical and Environmental Science (Elsevier) Infection and Drug Resistance (Dove press) Springer Publication House (Book Reviewer) Plos-One (PLOS) American Journal of Case Reports
2.	Dr. Anjana Pandey	Biomass and Bioenergy Beilstein Journal of Nanotechnology Current Microbiology Fuel World Journal of Microbiology and Biotechnology Bioresource Technology Cellular and Molecular Biology Biotechnology and Bioengineering International Journal of Hydrogen Energy Renewable Energy Biosangam 2013 International Conference on Translational Biotechnology (BioSangam 2016) Journal of Drug Targing
3.	Dr. Ashutosh Mani	Interdisciplinary Sciences: Computational Life Sciences Cellular and Molecular Biology Hypothesis

- Journal of Molecular recognition
Tumor Biology
International Journal of Biological Macromolecules
Experimental cell Research
Journal of Biomolecular structure and dynamics
BMC Plant Biology
3 Biotech
Current Vascular Pharmacology
Canadian Respiratory Journal
Scientific Reports
Current Pharmaceutical Design
Frontiers in Genetics
Gene
Current Organic Synthesis
J. Hazardous Materials
Journal of Environmental Management
Environmental Science and Technology
International Biodeterioration & Biodegradation
Water Research
Environmental Science and Pollution Research
4. Dr. Joyabrata Mal
Cellular and Molecular Biology
Clinical Epigenetics
DNA and Cell Biology
Biochemistry and molecular biology
African Journal of Agricultural Research
Biosamgam 2013
Jundisha Pur Journal of microbiology
3. International Journal Euphytica
2nd iCiAsT 2017 Singapur
Chemosphere
5. Dr. Manisha Sachan
Journal of institution if engineers India series E
Ecology and Chemistry
Science of the Total Environment
Chemosphere
Environmental Toxicology and Innovation
Ciencia Rural
Plos One
6. Dr. Nand Kumar Singh
Water Air and Soil Pollution
Molecular Carcinogenesis
Clinical and Transnational Oncology
BMC Cancer
Gene
IUBMB
Cancer Management and Research
IUBMB Life
Expert Reviews in Molecular Diagnostics
Clinical And Transnational Oncology
Current Cancer Durg Targets
Tree Physiology
Cancer Management Research
7. Dr. Radha Rani Mewaram
8. Dr. Sameer Srivastava

		Biomolecules
		Current Bioinformatics
		Environmental Science and Pollution Research
9.	Dr. Sangeeta Negi	Cancer Management and Research
		Food Technology and Biotechnology
		Brazilian Archives of Biology and Technology
		Bioresource Technology
		Applied Biochemistry and Biotechnology
		Food Research International
10.	Dr. Seema Nara	African Journal of Biotechnology
		Analytica Chimica Acta
		International Journal of Food Microbiology
		Nanomedicine
		Analytical Methods
		International Journal of Nanomedicine
		Biosensors and Bioelectronics
		RSC Advances
		Archives of Virology
		Critical Reviews™ in Therapeutic Drug Carrier Systems
		Microchemical Journal
		ACS Applied Materials & Interfaces
		Nature protocols
		Microchimica Acta
		Food Chemistry
		ChemBioChem
11.	Dr. Shivesh Sharma	Journal of Medicinal Plant Research
		International Journal of Plant & Soil Science
		Environmental Technology
		Soil and Sediment Contamination An International Journal
		Biomedicine & Pharmacotherapy
		Sciencedomain International
		Environmental Technology & Innovation
		Ecological Indicators
		Plant Physiology and Biochemistry
		Environmental Sustainability
		Water, Air, & Soil Pollution
		Applied Microbiology and Biotechnology
		Environmental Science and Pollution Research (ESPR)
		Journal of plant growth and regulation
		Trends in Food Science & Technology (TIFS)
		Acta physiologiae plantarum

Book(s)/ Book Chapter Authored

Sl. No.	Faculty Name (Author/ Co-author)	Book	Book Chapter	Publisher
1.	Archana Tiwari, Thomas Kiran and Anjana Pandey	In Second and Third Generation of Feedstocks	Algal cultivation for biofuel production	Elsevier
2.	Shashi Lata Bharti, Pankaj Kr. Chaurasia	New and Future Developments in Microbial	Significances of fungi in Bioremediation of Contaminated	Elsevier

	Ashutosh Mani	Biotechnology and Bio-engineering	Soil	
3.	Saumya Srivastava and Anjana Pandey	Current Aspects of Flavonoids: Their Role in Cancer Treatment	Role of Nanotechnology in Flavonoid-Mediated Anticancer Therapy	Springer Nature
4.	Pandey Ashutosh, Srivastava Sameer	Application of Microalgae in Wastewater Treatment Vol-1	Phyco-Remediation of Dairy Effluents and Biomass Valorization: A Sustainable Approach	Springer Nature
5.	Ashutosh Pandey, M. P. Singh	Application of Microalgae in Wastewater Treatment. Vol-II	Phycoremediation of Persistent Organic Pollutants from Wastewater: Retrospect and Prospects	Springer Nature
6.	Anjana Pandey, Saumya Srivastava	Photocatalysis: Perspective, Mechanism, and Applications,	Recent Trends in Catalyst Based Water Splitting Technology: Research and Applications	Nova
7.	L.C. Tan, J. Mal, P.N.L. Lens	Microbial Biofilms in Bio remediation and Waste water Treatment.	Selenium Remediation Using Granular and Biofilm Systems.	CRC Press
8.	Verma, N., Sharma, Shivesh., Dhasmana, A	Phylo and Rhico Remediation	Phycoremediation of Pollutants for Ecosystem Restitution	Springer, Singapore
9.	Upadhyay, N., Vishwakarma, K., Singh, J., S. Sharma	Phyto and Rhizo Remediation	Plant-Microbe-Soil Interactions for Reclamation of Degraded Soils: Potential and Challenges.	Springer, Singapore
10.	Yadav B.S., Mani Ashutosh	Microbial Genomics is Sustainable Agroeco system	Functional Genomics and Systems Biology Approach for Understanding Agroecosystems	Springer
11.	Rupika Sinha, Shipra Dwivedi, Avishek Kumar	Sensors in Water Pollutants Monitoring: Role of Material	Materials in Bio-Sensing of Water Pollutants	Springer Singapore
12.	Divakar Singh, Tarun Minocha, Satyavrat, Rupika Sinha et al	Protocols used in Molecular Biology	Analyzing Gene Expression through Real Time PCR while Neo-tissue Regeneration using Developed Tissue Constructs	Bentham Science Publishers
13.	U. Rani, Shivesh Sharma & V. Kumar,	Bacilli and Agrobiotechnology: Phyto stimulation and Biocontrol	Bacillus Species: A Potential Plant Growth Regulator.	Springer, Cham

Invited Lectures Delivered

- Lecture delivered by Dr. Ashutosh Mani at National workshop on "Biotechnological Approaches for Industrial Waste Management and Renewable Energy (IWMRE 2019), Department of Biotechnology, MNNIT Allahabad, Prayagraj, on 05/04/2019 entitled Invited talk titled Introduction to Tool in Computational Biology.
- Lecture delivered by Dr. Seema Nara at 4th International conference on Nanomaterials: synthesis, characterization and applications, Mahatma Gandhi University Kottayam Kerala on 12/04/2019 entitled Enzyme Mimetic Gold Nanoprobes: Applications in Biosensing.
- Lecture delivered by Dr. Ashutosh Mani at Short term course on Next Gen sequencing data analysis, MNNIT Allahabad on 21/12/2019 entitled Introduction to RNA Seq data Analysis.
- Lecture delivered by Dr. Anjana Pandey at workshop, Department of Science and Technology, Government of India at CSIR Human Resource Development Centre,

Ghaziabad on 24/01/2020 entitled Work Life Balance for Women Scientists/Technologists.

Events Organized by Department

Sl. No.	Name	Title	From	To
1.	Workshop	Summer training programme in Biotechnology, Department of Biotechnology, MNNIT Allahabad	28.05.2019	27.06.2018
2.	Workshop	GIAN Course-Emerging Biphotonics Solutions for Disease Diagnosis, MNNIT Allahabad	01.04.2019	12.04.2019
3.	Workshop	Summer Training Program in Biotechnology (STPB-2018), MNNIT Allahabad	28.05.2019	27.05.2019
4.	One Month Summer Training programme	One month summer training programme in Biotechnology, Department of Biotechnology, MNNIT Allahabad	28.05.2019	24.06.2019
5.	Workshop	Summer Training Program in Biotechnology (STPB-2019), MNNIT Allahabad	28.05.2019	27.06.2019
6.	Workshop	GIAN Course: Interface between Nanoparticles and Living Systems: Ethical and Translational Dimension, MNNIT Allahabad	15.07.2019	26.07.2019
7.	DIC Events Organized as a Coordinator Spoke	One day exhibition on the product and progress made under the scheme "National Initiative for Design Innovation", at IIT Delhi; a meeting of Spoke, MNNIT Allahabad	26.11.2019	26.11.2019
8.	International	INGSA Asia Grassroots Science Advice on Nutrition and Health (India) (ISANH-2019), MNNIT Allahabad	17.12.2019	18.12.2019
9.	Workshop	Food and Health Biotechnology Solutions to Life: An Improved Way to Living (FHBS-2019), Biotechnology department, MNNIT Allahabad	20.12.2019	26.12.2019
10.	DIC Events organized as a Coordinator Spoke	DIC meet of all spokes (MNNIT Allahabad, IIIT Allahabad, Allahabad University) of IIT BHU and BHU Varanasi was organized under the scheme "National , MNNIT Allahabad	07.02.2020	07.02.2020
11.	International Conference	BIOSANGAM 2020: an international conference: Biotechnological Interventions for societal Development, Department of biotechnology, MNNIT Allahabad	21.02.2020	23.02.2020
12.	International Conference	BioSangam 2020, MNNIT Allahabad	21.02.2020	23.02.2020
13.	International Conference	Biotechnological Interventions for Societal Development International Conference, MNNIT Allahabad	21.02.2020	23.02.2020
14.	International Conference	International Conference on Biotechnological Interventions for Societal Development (Biosangam 2020), MNNIT Allahabad	21.03.2020	23.02.2020

Events Attended

1. Dr. Anjana Pandey attended International Conference on S3IC at Munich during 03/04/2019 to 05/04/2019.
2. Dr. Seema Nara attended International Conference on 4th International conference on Nanomaterials: synthesis, characterization and applications at Mahatma Gandhi University

- Kottayam, Kerala, India during 12/04/2019 to 14/04/2019.
3. Dr. Ashutosh Mani attended Please Specify on Workshop on NBA Accreditation: Regulations and Procedure at MNNIT Allahabad during 27/07/2019 to 27/07/2019.
 4. Dr. Anjana Pandey attended Workshop on Socio-Economic Impact Assessment of Research & Development Outcomes at Ghaziabad, India during 18/11/2019 to 22/11/2019.
 5. Dr. Joyabrata Mal attended International conference on Chem-Conflux 20, 2020 at MNNIT Allahabad during 14/02/2020 to 16/02/2020.

Research Projects Completed/Ongoing

Sl. No.	Principal Investigator /Co investigator(s)	Project Title	Funding Agency	Amount (INR)	Duration
1.	Dr. Radha Rani Mewaram, (Co-PI)	Bioremediation for removal of reactive dyes from industrial waste water	UPCST	10.44 Lakhs	Ongoing
2.	Dr. Shivesh Sharma (PI)	Studies on nanoparticles (FeO ₂ and CuO NPS) mediated toxicity, tolerance mechanisms and their toxicity management in some susceptible and tolerant rice (<i>Oryza sativa</i> L.) varieties	CSIR (Council of Scientific and Industrial Research)	31.00 Lakhs	Ongoing
3.	Dr. Manisha Sachan (PI) Dr. Shivesh Sharma (Co-PI)	Identification of novel epigenetic biomarkers through next generation sequencing technologies towards developing a multiplex methylight assay for early diagnosis of epithelial ovarian cancer	Indian Council of Medical Research	35.00 Lacks	Ongoing
4.	Dr. Shivesh Sharma (PI) Dr. Sameer Srivastava (Co-PI)	Study to investigate the therapeutic efficacy of CD5 blocking in treatment of T cell lymphoblastic leukemia'	DBT	24.65 Lakhs	Ongoing
5.	Dr. Ashutosh Mani (PI)	Domain specific functional investigation of YB-1(a cold shock domain protein) interacting proteins as prospective therapeutic targets in adenocarcinoma of colon	SERB, New Delhi	30.00 Lakhs	Ongoing
6.	Dr. Ashutosh Mani (PI)	Screening and identification of natural inhibitors for β -Secretase-1 as potential therapeutics against Alzheimer's disease	SERB New Delhi	45.00 Lakhs	Ongoing
7.	Dr. Ambak Kumar Rai (Co-PI)	Study to establish infection of L. donovani through intradermal route in hamsters and its pathological validation	Department of Biotechnology, New Delhi	25.26 Lakhs	Ongoing
8.	Dr. Anjana Pandey (PI)	Integrated bio-hydrogen production from renewable	DBT, Gol	48.19 Lakhs	Ongoing

9.	Dr. Anjana Pandey	biomass and biological wastes using microbial strains "Augmentation of fermentative biohydrogen production by using nanoparticles and immobilization techniques for mitigating biowastes"	DST Women Scientist Scheme A (WOS-A)	28.89 Lakhs	Ongoing
10.	Dr. Seema Nara (PI)	Rapid assay for simultaneous detection of toxins of <i>Staphylococcus aureus</i> and <i>Clostridium botulinum</i> in dairy products	DST-SERB	25.61 Lakhs	Ongoing
11.	Dr. Manisha Sachan (Co-PI)	Screening, selection and validation of novel canine parvovirus specific aptamers	Department of Biotechnology Government of India	29.00 Lakhs	Ongoing
12.	Dr. Vishnu Agarwal (PI), Dr. Ashutosh Mani (Co-PI) Dr. N. K. Singh (Co-PI) Dr. Shivesh Sharma (Co-PI)	Study of role of lactone signaling and alginate production on neutrophil interaction, apoptosis, and subsequent macrophage mediated phagocytosis against <i>Pseudomonas aeruginosa</i> biofilm associated infections	DST- EMR (Individual Centric)	41.40 Lakhs	Ongoing
13.	Dr. Sameer Srivastava (PI)	Biosynthesis of Isoprene, an industrially important hydrocarbon, using <i>E.coli</i> as model organism	DBT, India	46.98 Lakhs	Ongoing
14.	Dr. Shivesh Sharma (PI)	Consultancy Research Project: Enhanced Natural Attenuation for in Situ Nallah treatment of Jhusi area, Prayagraj	State Mission for Clean Ganga	6.99 Lakhs	Ongoing
15.	Dr. Radha Rani Mewaram (PI)	Impact of <i>Vetiveria zizanioides</i> (L.), its root exudates and associated microbial communities on biogeochemistry of heavy metals and their application in development of remediation strategies for heavy metal contaminated sites	SERB	36.00 Lakhs	Ongoing
16.	Dr. Ambak Kumar Rai (PI)	Study to investigate the therapeutic efficacy of CD5 blocking in treatment of T cell lymphoblastic leukemia	Department of Biotechnology New Delhi	24.00 Lakhs	Ongoing
17.	Dr. Ashutosh Mani (PI)	Identification of novel drug targets in <i>Aspergillus fumigatus</i> genome prioritized by essentiality based screening and rational designing of new antifungal compounds	UPCST	9.00 Lakhs	Ongoing
18.	Dr. Sangeeta Negi	Process development for	DBT, GOI	57.60 Lakhs	Ongoing

	(PI)	bioconversion of grease into long chain fatty acids.(In collaboration with IIT, Delhi)			
19.	Dr. Vishnu Agarwal (PI)	"Study of water and terrestrial biofilms using foldscope as a tool to address community health and sanitation issues"	DBT	8.00 Lakhs	Ongoing
20.	Dr. Shivesh Sharma (PI)	Design and Innovation Centre (Spoke)	MHRD	102.95 Lakhs	Ongoing
21.	Dr. Manisha Sachan (PI)	Identification of novel epigenetic biomarkers through next generation sequencing technologies towards developing a multiplex methylight assay for early diagnosis of epithelial ovarian cancer	Indian Council of Medical Research, Government of India	30.00 Lacks	Ongoing
22.	Dr. Sameer Srivastava (PI)	Characterization of epigenetically deregulated genes in crc using next generation sequencing technologies for development of novel biomarkers	DBT, India	24.95 Lakhs	Ongoing
23.	Dr. Radha Rani Mewaram (PI)	Development of microbial fuel cell (MFC) based process for domestic wastewater treatment and power generation: Application in improving treatment sustainability	DST	39.26 Lakhs	Ongoing
24.	Dr. Shivesh Sharma (PI)	GIS based mapping of microbial diversity across Ganges for ecosystem services	NMCG	57.75 Lakhs	Ongoing
25.	Dr. Seema Nara (Co-PI)	Study of antibody and human morphonuclear neutrophils (PMN) mediated phagocytosis of PNAG positive Staphylococcus epidermidis biofilms and estimation of Caspase-3-like Protease (CLP) production	DBT	27.07 Lakhs	Ongoing
26.	Dr. Seema Nara (PI)	Network Project Title "Canine parvovirus"; Sub-Project title: "Screening, selection and validation of novel canine parvovirus specific aptamers"	DBT	13.65 lakhs	Ongoing

Other Relevant Information

1. Dr. Anjana Pandey received INGSA Science Advice Promotion Award 2019 on the theme "Science advice on nutrition and health on 05/2019.
2. Dr. Anjana Pandey received 100 most dedicated professors award by World Education Congress on 07/2019.
3. Dr. Shivesh Sharma received Award for Excellent Contribution Society for environmental Sustainability for Exemplary Contribution to the Journal "Environmental Sustainability" during

International conference on “Environmental Sustainability”: Innovations Translations Dimensions and Way forward” , Publisher: Springer, held in BBAU (Babasaheb Bhimrao Ambedkar University), Lucknow, U.P., India on 11th to 12th February 2020 on 02/2020.

To generate high quality engineering professionals by offering U.G., P.G. and Doctoral programmes in Civil Engineering.

To develop a premier Civil Engineering teaching and research department to cater the needs and challenges of the region and the country.

10.3 DEPARTMENT OF CIVIL ENGINEERING

Vision

To provide quality teaching with a strong concept of engineering and technology and an application-oriented U.G., P.G. and Doctoral education along with solid foundation in the rapidly expanding fields of Civil Engineering that enable them to produce high quality professionals. This includes trans-disciplinary teaching and research.

To provide students with a sound knowledge and understanding of current theories, concepts and laboratory practices in Civil Engineering.

Mission

List of Laboratories:

1. Geotechnical Engineering Laboratory.
2. Transportation Engineering Laboratory.
3. Environmental Engineering Laboratory.
4. Structural Engineering Laboratory.
5. Survey Laboratory.
6. CAD Laboratory.
7. Geology Laboratory.

Courses run by Department

1. B.Tech. Civil Engineering.
2. M.Tech. Geotechnical Engineering.
3. M.Tech. Transportation Engineering.
4. M.Tech. Environmental Engineering.
5. M.Tech. Structural Engineering.

List of Ph.D. Thesis Completed

Sl. No.	Name of Student	Reg. No.	Title	Supervisor(s)
1.	Mr. Ayush Mittal	2014RCE53	Soil Improvement in Pavements Using Random and Systematic Inclusions.	Dr. Shalinee Shukla
2.	Mr. Atul Jaiswal	2010RCE10	Non-linear Inelastic Modelling of Soil-Structure Interaction Mechanism.	Dr. Rama Shankar
3.	Mr. Yadvendra Pratap Singh	2013RGI01	Web-GIS based Municipal Solid Waste Management System.	Dr. Ram Pal Singh
4.	Mr. Prabhakar Shukla	2015RCE01	Groundwater System Simulation under Climatic Changes and Uncertainty	Dr. Raj Mohan Singh
5.	Ms. Prachi Singh	2015RCE07	Identification of Groundwater Pollution Sources and Characterization of Release History.	Dr. Raj Mohan Singh
6.	Mrs. Kaminee Gupta	2014RCH01	Synthesis, Characterization and application of Titanium & Bismuth based visible light responsive Photocatalysts.	Dr. Ram Pal Singh

Publication in International Journals

1. Devi, Ragani, Sachan A K, Singh R. P, "Dissipation kinetics of Hexaconazole and Lambda-Cyhalothrin residue in soil and potato plant", Potato Research Springer, pp.1-12, 04/2019, Published by Springer. (SCI)
2. Ayush Mittal and Shalinee Shukla, "Strength Improvement of Poor Subgrade Soil Reinforced with Polyester Biaxial Geogrid", Jordan Journal of Civil Engineering, vol.13, Issue 2, pp.214-225, 04/2019. (Scopus)
3. Nekram Rawal, Chaitanya Nidhi, H K Pandey, "Rapid Impact Assessment Matrix (RIAM)-Based Approach for Selection of Solid Waste Disposal Site", National Academy Science Letters, pp.1-6, 04/2019, Published by Springer India. (SCI)
4. Preeti Agarwal, P. Pal & P. K. Mehta, "Analysis of RC Skew Box-Girder Bridge", International

- Journal of Science and Innovative Engineering & Technology, vol.6, pp.1-8, 05/2019, Published by IJSIET.
5. Shraddha, A K Sachan, Debolina B, "Trend Analysis of Rainfall Over Bihar Region of India", Indian Journal of Environmental Protection, vol.39, Issue 5, 05/2019. (Scopus)
 6. Brij Kishor, Nekram Rawal, "Column adsorption studies on copper (II) ion removal from aqueous solution using natural biogenic iron oxide", Desalination and Water Treatment, vol.153, pp.216-225, 06/2019, (SCI).
 7. Kamini Gupta, Jatinder Kumar, R. P. Singh, Anjana Pandey, Priya Rai & Ashutosh Pandey, "Standardised nanostructured Ta/N-TiO₂ For environmental contaminants: an efficient visible light induced photochemical quencher for dyes", Materials Technology, vol.34, Issue 13, pp.765-775, 06/2019, Published by Taylor & Francis Group. (SCI)
 8. Kumar, S. Pandey, H. K., Singh P. K & Venkatesh K., "Demarcation of Probable Failure Zones Based on SMR and Kinematic Analysis", Journal of Geomatics, Natural Hazards and Risk, vol.10, Issue 1, pp.1793-1804, 07/2019, Published by Taylor and Francis. (SCI, IF = 2.332)
 9. Nekram Rawal, "An approach for selection of solid waste disposal sites by rapid impact assessment matrix and environmental performance index analysis", International Journal of Environment and Pollution, vol.66, Issue 1, pp.127-142, 07/2019, Published by Inderscience Publishers (IEL). (SCI)
 10. Singh, P. and Singh, R. M., "Identification of pollution sources using artificial neural network (ANN) and multilevel break through curve (BTC) characterization. Environmental Forensics", Environmental Forensics (Taylor & Francis), vol.20, Issue 3, pp.219-227, 07/2019, Published by Taylor & Francis. (SCI, IF = 0.726)
 11. Sahu, R. and Gupta, R. D., "Spatiotemporal Variation in Surface Velocity in Chandra Basin Glacier between 1999 and 2017 using Landsat-7 and Landsat-8 Imagery", Geocarto International, pp.1-21, 09/2019, Published by Taylor & Francis. (SCI, IF = 2.365)
 12. Prasanth S. and Ghosh G., "Seismic Vulnerability Assessment of a Reinforced Concrete Building Located in India", International Journal of Innovative Technology and Exploring Engineering, vol.8, Issue 11, pp.310-314, 09/2019, Published by International Journal of Innovative Technology and Exploring Engineering. (Scopus)
 13. Ayush Mittal and Shaline Shukla, "Effect of Geosynthetic Reinforcement on Strength Behaviour of Weak Subgrade Soil", Materials Science Forum, vol.969, pp.225-230, 09/2019, Published by Trans Tech Publications Ltd, Switzerland. (Scopus)
 14. Naresh, B. Venkatesh, K. Mishra & L. K., "Q factor of Punjab Basin", International Journal of Scientific Research and Review, vol.7, Issue 9, pp.111-118, 09/2019.
 15. Ayush Mittal and Shaline Shukla, "Remediation Technologies - A Comparative Study", Materials Science Forum, vol.969, pp.697-702, 09/2019, Published by Trans Tech Publications Ltd, Switzerland. (Scopus)
 16. V. Singh, R. M. Singh, N. Rawal, "Municipal Solid Waste Management Using Multiobjective Optimization with Uncertain Parameters", Journal of Hazardous, Toxic, and Radioactive Waste, vol.23, Issue 4, pp.04019020, 11/2019, Published by ASCE. (SCI)
 17. Deepak Kumar Singh, Priyaranjan Pal and S. K. Duggal, "Dynamic pressure on lock gate structure coupled with fluid", Vibroengineering Procedia, vol.29, pp.165-170, 11/2019, Published by Kaunas JVE International Ltd. (Scopus, IF = 0.28)
 18. Deep Tripathi, Rakesh Kumar, P. K. Mehta, Amrendra Singh, "Optimum Dose of Binary Admixture in Self Compacting Concrete", International Journal of Innovative Technology and Exploring Engineering (IJITEE), vol.9, Issue 1, pp.103-108, 11/2019, Published by Blue Eyes Intelligence Engineering & Sciences Publication ISSN: 2278-3075 (Online). (Scopus)
 19. Sahu, R. and Gupta, R. D., "Surface Velocity Dynamics of Samudra Tapu Glacier, India from 2013 to 2017 using Landsat-8 Data", ISPRS International Annals of the Photogrammetry,

- Remote Sensing and Spatial Information Sciences, pp.75-81, 12/2019, Published by Copernicus GMBH (Copernicus Publications). (Scopus)
20. Sarif, M. O. and Gupta, R. D., "Land Surface Temperature Profiling and its Relationships with Land Indices: A Case Study on Lucknow City", ISPRS International Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, pp.89-96, 12/2019, Published by Copernicus GMBH (Copernicus Publications). (Scopus)
 21. Tripathi, A. K. and Agrawal, S. and Gupta, R. D., "WPS Enabled SDI: An Open Source Approach to Provide Geoprocessing in Web Environment", ISPRS International Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, pp.119-126, 12/2019, Published by Copernicus GMBH (Copernicus Publications). (Scopus)
 22. Singh, R. M. and Shukla, P., "Drought Characterization Using Drought Indices and El Niño-Effects.", Natl. Acad. Sci. Lett. (Springer), vol.43, Issue 4, pp.339-342, 01/2020, Published by Springer. (SCI, IF = 0.41)
 23. Ravi Joshi, Priyaranjan Pal and S. K. Duggal, "Ply-by-Ply Failure Analysis of Laminates Using Finite Element Method", European Journal of Mechanics- A/Solids, vol.81, pp.1-13, 02/2020, Published by Elsevier. (SCI)
 24. Deep Tripathi, P. K. Mehta, Rakesh Kumar, Amrendra Singh, "Silica Fume Mixed Concrete in Acidic Environment", Material Today: Proceedings (Elsevier), vol.27, Issue 2, pp.1001-1005, 02/2020, Published by Elsevier. (Scopus, IF = 1.3)
 25. Amrendra Singh, P. K. Mehta, Rakesh Kumar, Deep Tripathi, "Effect of Nitric Acid on Rice Husk Ash Steel Fiber Reinforced Concrete", Material Today: Proceedings (Elsevier), vol.27, Issue 2, pp.995-1000, 02/2020, Published by Elsevier. (Scopus, IF = 1.3)
 26. Maurya, Krishna Kumar, Anupam Rawat, "Smart materials and electro-mechanical impedance technique: A review", Materials Today, 03/2020, Published by Elsevier Ltd. (Scopus)
 27. Shraddha, A K Sachan, Debolina B, "Study on temporal variation of rainfall over Uttar Pradesh region of India", International Journal of Emerging Technologies Scopus, vol.11, Issue 3, pp.96-106, 03/2020, Published by research trend. (Scopus, IF = 0.797)
- Publication in National Journals**
1. Shraddha, A K Sachan, Debolina B, "Trend analysis of rainfall over bihar region of india", IJEP, vol.39, pp.453-465, 05/2019. (Scopus)
 2. Priyaranjan Pal, "Determination of Dynamic modulus of elasticity of concrete", Indian Concrete Journal, vol.93, Issue 11, pp.7-15, 11/2019, Published by Scientific Publishers. (Scopus)
 3. Nidhi Gupta, Preeti Agarwal & Priyaranjan Pal, "Analysis of RCC Curved Box Girder Bridges", Applied Innovative Research, vol.1, Issue 3, pp.153-159, 11/2019, Published by CSIR-NISCAIR.
 4. Pooja, A. K. Sachan and R. P. Singh, "Micro structure analysis of concrete: Utilising bagasse ash waste as partial replacement of cement", Indian Journal of Environmental Protection, vol.40, Issue 3, pp.269-275, 03/2020, Published by kalpana corporation. (Scopus)
- Publication in International Conferences**
1. Chandan Kumar Gupta and A. K. Sachan, "A Review on Properties of Self Compacting Concret using Bagasse Ash", International Conference on "Contemporary Engineering and Technology-2019", IPEC Ghaziabad, pp.02, 04/2019.
 2. Preeti Agarwal, Priyaranjan Pal & P. K. Mehta, "Analysis of R C Skew Box-Girder Bridge", International Conference on Contemporary Engineering and Technology (ICCET-2019), Inderprastha Engineering College, Ghaziabad, 201010, UP, pp.4, 04/2019, Published by IJSIET.
 3. Varun Singh, Anurag Upadhyay, Asit Kumar, "Integrated Sensor based approach for vehicular traffic sensing using Probe Vehicle", 15th World Conference on Transport Research, IIT Bombay, Mumbai, pp.07, 05/2019.

4. Shailendra Chaudhary Gaurav Kumar Meena and N. R. Rawal, "Evaluation of Solid Waste Disposal Methodology by Fuzzy Multi Criteria Decision Making Approach: A Case Study in Allahabad City", International Conference on Advanced Research And Innovations In Civil Engineering (ARICE 2019), Department of Civil Engineering Muthoot Institute of Technology And Science, Varikoli, Kerala Varikoli, Kerala ,India, pp. (ARICE 201, 06/2019).
5. Hemkar K., Mishra L. K. and Ghosh. G., "Ductility Assessment of an RC Section", International Conference on Advanced Research and Innovations in Civil Engineering (ARICE), Kochi, India, 06/2019.
6. Mani, A. & Venkatesh, K., "Stability Assessment of Road Embankment Slope by Finite Element Method", International Conference on Geotechnics for High Speed Corridors, Thiruvananthapuram, pp.235-239, 07/2019, Published by Organizer.
7. Prasanth S. and Ghosh G., "Seismic Vulnerability Assessment of a Reinforced Concrete Building Located in India", International Conference Infracon 2019, Pune, India, 07/2019.
8. Ashwani Kumar, Anupam Rawat, A. K. Sachan,, "Prevention of Soil Erosion at The Banks of River Ghaghra by Chemical Soil Stabilization", 17th International Conference on Researches in Science & Technology (ICRST), Asian Institute of Technology (AIT), Bangkok, Thailand, 07/2019.
9. Gautam, A. Venkatesh, K. & Kumar,S., "Consolidation of Sequential Construction of Embankment using Non-Homogeneous Soil Stratum", International Conference on Geotechnics for High Speed Corridors, Thiruvananthapuram, pp.508-511, 07/2019, Published by Organizer.
10. Arjit Verma, P. Pal & Y. K. Gupta, "Non-linear Dynamic Analysis of a Multi-storey Building Subjected to Earthquake", International Conference on Recent Trends and Innovations in Civil Engineering (ICRTICE 2019), Medi-Caps University, Indore, 453331, pp.58, 09/2019, Published by Springer.
11. Amrendra Singh, Rakesh Kumar, P. K. Mehta, Deep Tripathi, "Durability of Rice Husk Ash Concrete in Acidic Environment", International Conference on Innovative Trends in Civil Engineering for Sustainable Development (ITCSD-2019), NIT Warangal, pp.NIT Warang, 09/2019, Published by ISBN:978-93-89354-46-1.
12. Preeti Agarwal, Priyaranjan Pal & P. K. Mehta, "Analysis of Isotropic and Orthotropic Sandwich Bridge Decks", International Conference on Recent Trends and Innovations in Civil Engineering (ICRTICE 2019), Medi-Caps University, Indore, 453331, pp.33, 09/2019, Published by Springer.
13. Ayush Mittal and Shalinee Shukla, "Soil Subgrade Stabilization Using Non-Woven Poly propylene Geotextile", International Conference on Recent Trends and Innovations in Civil Engineering (ICRTICE-2019), CED Medi-Caps University, Indore, 09/2019.
14. Atul Sharma, Nekram Rawal, "The Selection of Wastewater Treatment Units Based on Analytical Hierarchical Process (Paper ID:- ICRTICE 127)", International Conference On Recent Trends and Innovations in Civil Engineering (ICRTICE-2019), Sept 26-28,2019, Department of Civil Engineering MEDI-CAPS University, Indore, pp.xx, 09/2019, Published By Springer India.
15. Deep Tripathi, Rakesh Kumar, P. K. Mehta and Amrendra Singh, "Durability of Self Compacting Concrete in Acidic Environment in Cooperating with Mineral Admixtures", International Conference on Innovation Trends in Civil Engineering for Sustainable Development (ITC SD-19), NIT, Warangal, pp.111-112, 09/2019.
16. Tripti Sonker, Rakesh Kumar and Anupam Rawat, "Monitoring Methods of Concrete from Early Age Strength Gain of Concrete: A Review", Recent Trends and Innovations in Civil Engineering (ICRTICE-2019), the Medi-Caps University "Indore", 09/2019.
17. Deepak Kumar Singh, P. Pal & S. K. Duggal, "Free Vibration Frequencies of Lock Gate Structure", International Conference on Recent Trends and Innovations in Civil Engineering (ICRTICE 2019), Medi-Caps University, Indore, 453331, pp.39, 09/2019, Published by Springer.

18. Deepak Kumar Singh, P. Pal & S. K. Duggal, "Dynamic Pressure on Lock Gate Structure Coupled with Fluid", 43rd International JVE Conference, Bennett University, Greater Noida (Delhi), India, pp.165-170, 11/2019, Published by Kaunas JVE International Ltd.
19. Sarif, M. O. and Gupta, R. D., "Change Assessment of Spatio-temporal Dynamics of Land Use/ Land Cover using Remote Sensing and GIS: A Case Study of Lucknow City (1993-2019)", 39th INCA International Congress on New Age Cartography and Geospatial Technology in Digital India, Dehradun, India, pp.1-11, 12/2019.
20. Krishna Kumar Maurya, Anupam Rawat, Govinda Jha, "Smart Materials and Electro-Mechanical Impedance Technique: A Review", 2nd International Conference on Processing and Characterization of Materials - (ICPCM 2019), Rourkela, India, 12/2019.
21. Anjali Singh, P. K. Mehta and Rakesh Kumar, "Use of Recycled Coarse Aggregate in Self Compacting Concrete", International Conference on Energy and Environmental Technologies for Sustainable Development (Chem-Conflux 20), Department of Chemical Engineering, MNNIT Allahabad, pp.146, 02/2020.
22. Anjali Singh, Rakesh Kumar, P. K. Mehta, Abhishek Rajput, "Optimum Dose of Fly Ash in Self Compacting Concrete", International Conference on Chemical, Bio & Environmental Engineering (CHEMBION-2020), NIT Jalandhar, pp.124-125, 02/2020.
23. Deep Tripathi, Rakesh Kumar, P. K. Mehta and Amrendra Singh, "Self Compacting Concrete in Different Aggressive Environments", International Conference on Chemical, Bio & Environmental Engineering (CHEMBIOEN-2020), Dept of Chemical Engineering, NIT Jalandhar, pp.42-43, 02/2020.
24. Amrendra Singh, Rakesh Kumar, P. K. Mehta and Deep Tripathi, "Performance of Rice Husk Ash Concrete in Acidic Environment", International Conference on Chemical, Bio & Environmental Engineering (Chembioen-2020), Dept of Chemical Engineering, NIT Jalandhar, pp.67, 02/2020.
25. Anjali Singh, P. K. Mehta, Rakesh Kumar, "Use of Recycled Coarse Aggregate in Self Compacting Concrete", International Conference on Energy and Environmental Technologies for Sustainable Development (Chem-Conflux 20), Department of chemical Engineering, MNNIT, Allahabad, pp.146, 02/2020.
26. Amrendra Singh, Rakesh Kumar, P. K. Mehta, Deep Tripathi, "Performance of Rice Husk Ash Concrete in Acidic Environment", International Conference on Chemical, Bio & Environmental Engineering (CHEMBIOEN-2020), NIT Jalandhar, pp.67, 02/2020.
27. Anupam Rawat, "Some experimental studies on the ferrocement web sandwich panel optimization", Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies, Hotel Novotel, Kolkata, 02/2020.
28. Anjali Singh, P. K. Mehta, Rakesh Kumar and Abhishek Rajput, "Optimum Dose of Fly Ash in Self Compacting Concrete", International Conference on Chemical, Bio & Environmental Engineering (CHEMBIOEN-2020), Dept of Chemical Engineering, NIT Jalandhar, pp.124-125, 02/2020,
29. Atul Sharma, Nekram Rawal, "Ranking of Municipal Wastewater Treatment Alternatives using Analytical Network Process Technique", 3rd International Conference on Waste Management-Recycle 2020 on 13th and 14 th February, 2020, IIT Guwahati, pp.76, 02/2020, Published by Springer India.
30. Deep Tripathi, Rakesh Kumar, P. K. Mehta and Vishal Rawat, "An Experimental Study on the Properties of SCC with Manufactured Sand", International Conference on Energy and Environmental Technologies for Sustainable Development (Chem-Conflux20), Dept of Chemical Engineering, MNNIT Allahabad, pp. 147, 02/2020.
31. Pooja, A K Sachan & R P Singh, "Utilization of stone dust as an effective material for sand replacement", ITCSD 2020, NITTR Chandigarh, 02/2020.
32. Tripti Sonker, Rakesh Kumar and Anupam Rawat, "Mechanical properties of sustainable

- concrete using binary pozzolanic material", International Conference on Chemical, Bio & Environmental Engineering (CHEMBIOEN-2020), Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab, 02/2020.
33. Deep Tripathi, Rakesh Kumar, P. K. Mehta, Vishal Rawat, "An Experimental Study on the Properties of SCC with Manufactured Sand", International Conference on Energy and Environmental Technologies for Sustainable Development (Chem-Conflux 20), MNNIT Allahabad, pp.147, 02/2020.
 34. Amrendra Singh, Rakesh Kumar, P. K. Mehta and Deep Tripathi, "Effect of Nitric Acid on Rice Husk Ash Steel Fiber Reinforced Concrete", International Conference on Advanced Light-weight Materials and Structures (ICALMS-2K20), CMR Technical Campus, Hyderabad, pp.67, 03/2020, Published by ASCE ISBN: 97881927 05125.
 35. Naresh, B. Venkatesh, K. Mishra & L. K., "Comparative study of high frequency decay parameters of various Earthquakes in the Delhi Region", Second ASCE India Conference on "Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies" (CRSIDE2020), Kolkata, 03/2020, Published by ASCE.
 36. Tripti Sonker, Rakesh Kumar and Anupam Rawat, "Monitoring of pozzolanic concrete under various curing Environment via Non Destructive Technique (NDT)", Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies, Hotel Novotel, Kolkata, 03/2020.
 37. Nayyar, D., Kumar, A., Basu, D. and Singh, R. M., "Modeling and Performance Evaluation of Electrocoagulation Unit for the Removal of Hexavalent Chromium.", Second ASCE India Conference on "Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies, Kolkata (Novotel Kolkata Hotel and Residence), West Bengal- 700156, 03/2020.
 38. Deep Tripathi, Rakesh Kumar, P. K. Mehta and Amrendra Singh, "Performance of Self Compacting Concrete with Binary Admixture in Sulphate Environment", Second ASCE India Conference on "Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies" (CRSIDE2020), Kolkata, pp.222, 03/2020, Published by ISBN : 978-93-5396-500-6.
 39. Achint Ranjan and Rama Shanker, "Quantification and Classification of Damage in the bridge by Numerical Approach", Second ASCE India Conference on Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies (CRSIDE 2020), Kolkata India, 03/2020.
 40. Deep Tripathi, Rakesh Kumar, P. K. Mehta, Amrendra Singh, "Silica Fume Mixed Concrete in Acidic Environment", International Conference on Advanced Light-weight Materials and Structures (ICALMS-2K20), CMR Technical Campus, Hyderabad, pp.68, 03/2020, Published by ISBN: 9788192705125.
 41. Amrendra Singh, Rakesh Kumar, P. K. Mehta and Deep Tripathi, "Mechanical Properties of Self Compacting Concrete Incorporating Fly Ash and Rice Husk Ash", Second ASCE India Conference on "Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies" (CRSIDE2020), Kolkata, pp.221, 03/2020, Published by ISBN : 978-93-5396-500-6.
 42. Sachin Kumar Singh and Rama Shanker, "Detection of Multiple Damages in Structures Using PZT Transducer", Second ASCE India Conference on Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies (CRSIDE2020), Kolkata India, 03/2020, Published by ASCE.
 43. Jitendra Awasthi, Goutam Ghosh and Pradeep Kumar Mehta, "Seismic Performance of a Curved Bridge with Soil Amplification Effect", Second ASCE India Conference on "Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies" (CRSIDE 2020), Kolkata, pp.355, 03/2020, Published by ISBN : 978-93-5396-500-6.
 44. Maurya, K., Rawat, A., and Shanker, R, "Crack Health Monitoring of Microbial Concrete Beam by Electro-mechanical Impedance Technique Using PZT Patches", Second ASCE India Conference on Challenges of Resilient and

- Sustainable Infrastructure Development in Emerging Economies (CRSIDE2020), Kolkata India, 03/2020, Published by ASCE.
45. Deep Tripathi, Rakesh Kumar, P. K. Mehta and Amrendra Singh, "Silica Fume Mixed Concrete in Acidic Environment", International Conference on Advanced Light-weight Materials and Structures (ICALMS-2K20), CMR Technical Campus, Hyderabad, pp.68, 03/2020, Published by ISBN: 9788192705125.
 46. Pandey, A. K. Venkatesh, K. & Gupta, Y. K., "Rational Approach of SSI effects on High Rise Buildings: A Review", Second ASCE India Conference on "Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies" (CRSIDE2020), Kolkata, 03/2020, Published by ASCE.
- Publication in National Conferences**
1. Shalinee Shukla, Ayush Mittal, R. P. Tiwari, and Kshma Gupta, "Application of Non-Woven Polyester Geotextile for Soil Improvement in Pavements", Indian Geotechnical Conference (IGC-2019), SVNIT, Surat, Gujarat India, 12/2019.
 2. Ayush Mittal, Shalinee Shukla, and Sonu Verma, "Review on Suitability of Rice Husk Ash as Soil Stabilizer", Indian Geotechnical Conference (IGC-2019), SVNIT, Surat, Gujarat India, 12/2019.
 3. Sunit kumar, Shalinee Shukla, Ayush Mittal, "Improvement in soil subgrade using natural fibre (kenaf and coir fibre)", Indian Geotechnical Conference (IGC-2019), SVNIT, Surat, Gujarat India, 12/2019.
 4. Chandan Kumar Gupta, Sachan A K, Rakesh Kumar, "Studies on the Properties of Self Compacting Concrete using Recycled Coarse Aggregate", Second ASCE India conference on challenges of resilient and sustainable infrastructure development in emerging economies, Kolkata, 03/2020.

Reviewer in International Journals and Conferences

Sl. No.	Faculty Name	Journal Name
1.	Dr. Anil Kumar Sachan	Innovative Infrastructure solutions National conference on recent advances structural engineering Innovative Infrastructure solutions
2.	Dr. Hemant Kumar Pandey	Journal of Geological Society of India Sustainable Water management
3.	Dr. Kumar Pallav	International Journal Of Civil Engineering 3 rd Indian Conference on Applied Mechanics Indian Geotechnical Conference
4.	Dr. Kumar Venkatesh	International Conference on Water, Environment, Energy & Society Scientia Iranica International Journal International Journal of Geosynthetics and Ground Engineering Desalination and Water Treatment International Journal of Earth Sciences and Engineering International Journal of Environment and Waste Management Innovative Infrastructure Solutions Recent Patents on Computer Science Innovative Infrastructure Solutions International Journal of Geomechanics Iranian Journal of Science and Technology, Transactions of Civil Engineering International Conference on Advances in Material Science
5.	Dr. Priya Ranjan Pal	Ocean Engineering Journal of Fluids and Structures Journal of Sound and Vibration

		Ocean Engineering International Conference on Advances in Dynamics, Vibration and Control 3 rd Indian Conference on Applied Mechanics Recent Advances in Engineering, Technology and Computational Sciences Journal of The Institution of Engineers (India): Series A Journal of Asian Architecture and Building Engineering CRSIDE2020, Second ASCE Conference in India on Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies International Journal of Concrete Technology Journal of Environmental Engineering Division, ASCE Journal of Hazardous, Toxic and Radioactive waste, ASCE ASCE Journals of (2) Hazardous, toxic and Radioactive waste management ASCE Journals of (1) Environmental Engineering division Journal of Membrane and Separation Technology International Journal of Civil Engineering (IJCE) International Journal of Water, Air and Soil Pollution Journal of Membrane and Separation Technology ISH Journal of Hydraulic Engineering
6.	Dr. Ram Pal Singh	
7.	Dr. S. K. Duggal	3 rd Indian Conference on applied Mechanics
8.	Dr. Shalinee Shukla	Energy Sources, Part B: Economics, Planning, and Policy International Conference on Recent Trends & Challenges in Civil Engineering -RTCCE-2014 Energy Sources, Part B: Economics, Planning, and Policy Recent Trends & Challenges In Civil Engineering -Rtcce- 2014, MNNIT Allahabad, December 12-14, 2014 3 rd Indian Conference on Applied Mechanics- INCAM 2017, MNNIT Allahabad Indian Conference on Applied Mechanics (INCAM) 2017 MNNIT Allahabad, July 5– 7, 2017. Recent Advances in Traffic Engineering- RATE 2018, SVNIT 5 th Conference of Transportation Research Group of India, Bhopal Jordan Journal of Civil Engineering Transportation Research Part C Nigerian Journal of Technological Research Transactions on Intelligent Transportation Systems Annals of GIS
9.	Dr. Varun Singh	Indian Geotechnical Journal
10.	Dr. Vishwajeet Pratap Singh	
11.	Mr. Anupam Rawat	Journal of The Institution of Engineers (India): Series A

Book(s)/ Book Chapter Authored

Sl. No.	Faculty Name (Author/ Co-author)	Book	Book Chapter	Publisher
1.	A. K. Tripathi, Agrawal S. & R. D. Gupta	Applications of Geomatics in A Conceptual Frame Civil Engineering: Lecture work of Public Health Notes in Civil Engineering SDI		Springer, Singapore
2.	Shalinee Shukla,	Geotechnics for Transport-	Use of Jute Geo	Springer, Scientific

	R. P. Tiwari, Vaishali R	ation Infrastructure	textile Strength Enhancement of Soft Subgrade Soil	Publishing Services (P) Ltd. In: Sundaram R., Shahu J., Havanagi V. (eds) Geotechnics Singapore
3.	R. Sahu, & R. D. Gupta	Applications of Geomatics in Civil Engineering, Lecture Notes in Civil Engineering	Snow Cover Analysis in Chandra Basin of Western Himalaya from 2001 to 2016	Springer, Singapore
4.	Priyaranjan Pal	Slosh Dynamics in Container – MLPG Application	Complete Book	LAP Lambert Academic Publishing, 17 Meldrum Street, Beau Bassin 71504, Mauritius

Invited Lectures delivered

- Lecture delivered by Dr. Rakesh Kumar at Five Days Faculty Development Programme on "Repair & Rehabilitation of Concrete Technology, Department of Civil Engineering, United Institute of Technology, Allahabad on 03/05/2019 entitled Use of Mineral Admixtures in Concrete.
- Lecture delivered by Dr. P. K. Mehta at Faculty Development on Repair and Rehabilitation of Concrete Structures, Department of Civil Engineering, United Institute of Technology, Allahabad on 04/05/2019 entitled Bridges-Research Issues.
- Lecture delivered by Dr. Rakesh Kumar at Five Days Faculty Development Programme on "Repair & Rehabilitation of Concrete Technology, Department of Civil Engineering, United Institute of Technology, Allahabad on 06/05/2019 entitled Construction Defects and possible remedies.
- Lecture delivered by Dr. P. K. Mehta at Faculty Development on Repair and Rehabilitation of Concrete Structures, Department of Civil Engineering, United Institute of Technology, Allahabad on 06/05/2019 entitled Bridges-Repair, Rehabilitation and Retrofitting.
- Lecture delivered by Dr. Vijay Kumar at Faculty Development Programme (FDP) on, Government Engineering College, Bharatpur on 14/05/2019 entitled Sustainable Environmental Management & Renewable Energy Technologies for Sustainable Future".
- Lecture delivered by Dr. Ram Pal Singh at Hydrological, Geotechnical and Geological Investigations for Dams (HGGID-2019) During May 22-26, 2019 at MNNIT Allahabad,
- Lecture delivered by Dr. Ram Pal Singh at World Environment Day, Meja Urja Nigam, Meja Allahabad on 05/06/2019 entitled Air Pollution :Causes, Effects and Control measures - A case study of Allahabad City.
- Lecture delivered by Mr. Anupam Rawat at STIPGCE-2019, GIS Cell, MNNIT Allahabad on 10/06/2019 entitled Application of CAD in Civil Engineeing.
- Lecture delivered by Dr. Kumar Venkatesh at Seminar of Civil Engineering Department, Department of Civil Engg, NIT Jamshedpur on 17/06/2019 entitled Application of FEM for DAM Engineering.
- Lecture delivered by Dr. Kumar Venkatesh at Seminar of Civil Engineering Department, Department of Civil Engg, NIT Jamshedpur on 17/06/2019 entitled Soft Computing Methods on Liquefaction.
- Lecture delivered by Dr. Rama Shankar at Short Term Internship Programme, MNNIT Allahabad on 18/06/2019 entitled Design of Foundation for Concrete Structure.
- Lecture delivered by Dr. Ram Pal Singh at Summer Training cum Internship Programme in Geoinformatics and Civil Engineering (STIPGCE -2019), held at MNNIT Allahabad, Organising committee GIS Cell and Department of Civil Engineering, MNNIT Allahabad (STIPGCE-2019) on 24/06/2019 entitled Water and Wastewater

- quality Parameters their significance and determination.
13. Lecture delivered by Dr. Kumar Venkatesh at Design-2019, CED, MNNIT Allahabad on 24/06/2019 entitled Geotechnical Design Concepts of Foundation.
 14. Lecture delivered by Dr. P. K. Mehta at Self Financed Summer Training and Internship Programme in Civil Engineering (STIPCE-2019), Department of Civil Engg., MNNIT, Allahabad on 25/06/2019 entitled Cement Test- II.
 15. Lecture delivered by Dr. P.K. Mehta at Self Financed Summer Training and Internship Programme in Civil Engineering (STIPCE-2019), Department of Civil Engineering, MNNIT Allahabad on 25/06/2019 entitled Cement Test-I.
 16. Lecture delivered by Dr. P. K. Mehta at Self Financed Summer Training and Internship Programme in Civil Engineering (STIPCE-2019), Department of Civil Engg., MNNIT, Allahabad on 25/06/2019 entitled Cement Test – Practical.
 17. Lecture delivered by Dr. Rakesh Kumar at Four Week “Summer Training and Internship Programme in Civil Engineering (STIPCE-2019), Department of Civil Engineering, MNNIT, Allahabad on 26/06/2019 entitled Aggregate Tests (Part I & Part II) for Concrete.
 18. Lecture delivered by Dr. Rakesh Kumar at Summer Training and Internship Programme in Civil Engineering (STIPCE-2019), Department of Civil Engg., MNNIT, Allahabad on 26/06/2019 entitled Different Tests of Coarse Aggregate.
 19. Lecture delivered by Dr. Rakesh Kumar at Four Week “Summer Training and Internship Programme in Civil Engineering (STIPCE-2019)”, Department of Civil Engineering, MNNIT, Allahabad on 26/06/2019 entitled 38 Invited Lecturer for Practical on ‘Different Tests of Coarse Aggregate’.
 20. Lecture delivered by Dr. Rakesh Kumar at Summer Training and Internship Programme in Civil Engineering (STIPCE-2019), Department of Civil Engineering, MNNIT, Allahabad on 26/06/2019 entitled Aggregate Tests (Part II) for Concrete.
 21. Lecture delivered by Dr. P. K. Mehta at Self Financed Summer Training and Internship Programme in Civil Engineering (STIPCE-2019), Department of Civil Engg., MNNIT, Allahabad on 27/06/2019 entitled Mix Design– Practical.
 22. Lecture delivered by Dr. Priya Ranjan Pal at A Four Week Self Financed Summer Training cum Internship Programme in Civil Engineering (STIPCE-2019), CED, MNNIT Allahabad on 27/06/2019 entitled Mix Design.
 23. Lecture delivered by Dr. P. K. Mehta at Self Financed Summer Training and Internship Programme in Civil Engineering (STIPCE-2019), Department of Civil Engg., MNNIT, Allahabad on 27/06/2019 entitled Admixtures For Concrete.
 24. Lecture delivered by Dr. Priya Ranjan Pal at A Four Week Self Financed Summer Training cum Internship Programme in Civil Engineering (STIPCE-2019), CED, MNNIT Allahabad on 28/06/2019 entitled NDT by RH & UPV.
 25. Lecture delivered by Dr. Rakesh Kumar at Summer Training and Internship Programme in Civil Engineering (STIPCE-2019), Department of Civil Engineering, MNNIT, Allahabad on 28/06/2019 entitled Construction Defects and possible remedies.
 26. Lecture delivered by Dr. Rakesh Kumar at Four Week “Summer Training and Internship Programme in Civil Engineering (STIPCE-2019)”, Department of Civil Engineering, MNNIT, Allahabad on 28/06/2019 entitled Construction Defects and possible remedies.
 27. Lecture delivered by Mr. Anupam Rawat at Software Application in Design of Structures (SADS-2019), CED, MNNIT Allahabad on 08/07/2019 entitled Application of CAD in Civil Engineering.
 28. Lecture delivered by Dr. Nek Ram Rawal at Five day faculty development programme on Application of Optimization Methods in Engineering, Department of Civil Engineering, Rajkiya Engineering Collgege Azamgarh (UP) on 06/08/2019 entitled Application of Optimization Technique in Solid Waste Management.
 29. Lecture delivered by Dr. Pramod Soni at "InSAR: Theory, Processing and Application", MNNIT

- Allahabad on 12/08/2019 entitled Basics of Linux and Matlab.
30. Lecture delivered by Dr. Vishwajeet Pratap Singh at One Week National Workshop on Civil Engineering for Green and Inclusive Sustainable Development, CED, REC Ambedkar Nagar on 16/09/2019 entitled Sustainability in Geotechnical Engineering.
 31. Lecture delivered by Dr. Vishwajeet Pratap Singh at One Week National Workshop on Civil Engineering for Green and Inclusive Sustainable Development, CED, REC Ambedkar Nagar on 17/09/2019 entitled Foundation in Difficult Ground.
 32. Lecture delivered by Dr. Ram Pal Singh at Training Programme on Water Quality Assessment, Reservoir Sedimentation and Risk Remedial Measures, held at MNNIT Allahabad during September 25-29, 2019, Department of Civil Engineering, MNNIT Allahabad and CWC, New Delhi on 26/09/2019 entitled Variations in Water Quality of Lakes and Reservoirs
 33. Lecture delivered by Dr. Rakesh Kumar at TEQIP-III sponsored One Week Short Term Course on "Design of Water Retaining Structure (DWRS)", Department of Civil Engineering, MNNIT, Allahabad on 15/10/2019 to 16.10.2019 entitled Design of Circular and Rectangular Tank.
 34. Lecture delivered by Dr. Kumar Venkatesh at Short Term Course, NOT 2019 Organizer MNNIT Allahabad on 08/11/2019 entitled Modelling and Analysis using Finite Element Method.
 35. Lecture delivered by Dr. Pramod Soni at Numerical and Optimization Techniques (NOT-2019), Department of Civil Engineering, MNNIT Allahabad on 09/11/2019 entitled Numerical Modeling using Finite Difference Methods.
 36. Lecture delivered by Dr. Rakesh Kumar at One day Workshop on "Structural Engineering", Department of Civil Engineering, Institute of Engineering and Technology, Sitapur Road, Lucknow on 16/11/2019 entitled Use of Mineral Admixtures in Concrete.
 37. Lecture delivered by Dr. Rakesh Kumar at Three days Workshop for Assistant Engineer/Junior Engineer of Rural Engineering Department (RED, Department of Civil Engineering, Institute of Engineering and Technology, Sitapur Road, Lucknow on 11/12/2019 entitled Architectural Consideration of Earthquake Resistant Structures.
 38. Lecture delivered by Dr. Rama Shankar at Workshop, Damage Detection and Characterization Strategy of Non-Engineering Structures using Piezoelectric Sensors: Theory and Practice, VPKBIET, Baramati, Maharashtra on 27/12/2019 entitled Structural Health Monitoring using EMI Technique.

Invited Lectures Organized

1. A lecture is delivered by Dr. G. K. Sahu, Head of the Department and Senior Principal Scientist, Bridge Engineering and Structures Division in CRRI, Central Road Research Institute (CRRI), New Delhi on 20/09/2019 entitled Performance Monitoring and Health Assessment of Bridges through Instrumentation.

Events Organized by Department

Sl. No.	Name	Title	From	To
1.	Training programme	Hydrological, Geotechnical and Geological Investigations for Dams, MNNIT Allahabad	22.05.2019	26.05.2019
2.	Evolving Concept in Design of Reinforced Concrete Building	Short Term Internship Programme, MNNIT Allahabad	03.06.2019	28.06.2019
3.	Internship Programme	Internship Programme on Evolving Concepts in Design of Reinforced Concrete Buildings, MNNIT Allahabad	03.06.2019	28.06.2019
4.	Summer Training Cum Internship Programme	Summer Training cum Internship Programme in Civil Engineering (STIPCE-2019), CED, MNNIT	10.06.2019	05.07.2019

5.	Summer Training Cum Internship Programme	Summer Training cum Internship Programme in Geoinformatics & Civil Engineering (STIPGCE-2019), MNNIT Allahabad, Prayagraj	10.06.2019	06.07.2019
6.	Faculty Development Program	Software Application in Design of Structures, Prayagraj	08.07.2019	12.07.2019
7.	Workshop	Workshop on NBA Accreditation : Regulations & Procedure, MNNIT Allahabad	27.07.2019	27.07.2019
8.	Training Programme	Short Term Training Programme on Self Defense Skills for Female Students, Kamla Nehru Girl's Hostel, MNNIT Allahabad	05.08.2019	09.08.2019
9.	Training Programme	Short Term Training Programme on Self Defense Skills for Female Students, Kamla Nehru Girl's Hostel, MNNIT Allahabad	20.08.2019	24.08.2019
10.	Training Programme	Water Quality Assessment, River Sedimentation & Risk Remedial Measures, MNNIT Allahabad	25.09.2019	19.09.2019
11.	Training Programme	Water Quality Assessment, Reservoir Sedimentation & Risk Remedial Measures, MNNIT Allahabad	25.09.2019	29.09.2019
12.	Short term Course	Short term course on Numerical and Optimization Techniques (NOT-2018), MNNIT Allahabad, Prayagraj	12.10.2019	16.10.2019
13.	Faculty Development Program	design of water retaining structures, mnnit allahabad	14.10.2019	18.10.2019
14.	Self Financed Short Term Course	Numerical Optimization Technique (NOT-2019), CED, MNNIT Allahabad	08.11.2019	12.11.2019
15.	Training Programme	New Materials and Instrumentation for Rehabilitation of Dams, MNNIT Allahabad	25.11.2019	29.11.2019
16.	Training Programme	Risk Uncertainty & Management Information System, MNNIT Allahabad	18.12.2019	22.12.2019

Events Attended

- Dr. Kumar Venkatesh attended Workshop on NBA Accreditation: Regulations and Procedures at MNNIT Allahabad during 27/07/2019 to 27/07/2019.
- Dr. Kumar Venkatesh attended Short Term Training Programme on Developing Massive Open Online Courses (MOOCs) at MNNIT Allahabad during 27/09/2019 to 01/10/2019.
- Dr. Priya Ranjan Pal attended Workshop on Role of Alumni in Professional Growth of Students in Enhancing Professional Competency at MNNIT Allahabad during 10/11/2019 to 10/11/2019.
- Dr. Priya Ranjan Pal attended National conference on Industrial Application of Nanoscience and Nanotechnology (IANN-2019). at MNNIT Allahabad during 15/11/2019 to 16/11/2019.
- Dr. Kumar Venkatesh attended International conference on Energy and Environmental Technologies for Sustainable Development at MNNIT Allahabad during 14/02/2020 to 16/02/2020.

Research Projects Completed/Ongoing

Sl. No.	Principal Investigator/Co investigator(s)	Project Title	Funding Agency	Amount (INR)	Duration
1.	Dr. Pramod Soni (Co-PI)	Mapping ground water quality Depleted area. Potential	Department of Science and	14.99 Lakhs	Ongoing

		Groundwater Recharge Zones and Exolxing the Farmer's need based Groundwater Recharge structures in District Mahoba of Bundelkhand region of UP.	Technology		
2.	Dr. Vishwajeet Pratap Singh (PI)	Development of web based tool for selection of sustainable remediation option for soil contaminated with organic contaminants	MHRD sponsored project Design & Innovation Centre	0.50 Lakhs	Ongoing
3.	Dr. R. P. Tiwari (PI)	Development of In-House Expertise on Dam Safety under Dam Rehabilitation and Improvement Project (DRIP)	CWC Govt. of India, New Delhi	461.00 Lakhs	Ongoing
4.	Dr. Ram Pal Singh (Co-PI)	Capacity Building in dam safety under Dam Rehabilitation and Improvement	CWC, Govt. of India, New Delhi	461.00 Lakhs	Ongoing
5.	Dr. Pramod Soni (PI)	Use of Artificial Neural Network in regionalization of SWAT parameters	TEQIP	1.51 Lakhs	Ongoing
6.	Dr. Nek Ram Rawal (PI)	Ambient Air Quality Monitoring and Noise Monitoring	U.P.P.C.B. Lucknow	10.56 Lakhs	Ongoing
7.	Dr. Hemant Kumar Pandey (PI)	Identification of Groundwater Prospect and Recharge Zones in District, Banda, U.P.	NRDMS, DST New Delhi	18.24 Lakhs	Ongoing
8.	Dr. Ram Pal Singh (PI)	Ambient air quality monitoring project at the station in Allahabad city	UPPCB Lucknow	10.56 Lakhs	Ongoing
9.	Dr. Pramod Soni (Co-PI)	Regionalization of Hydrological model parameters for Indian rivers	AICTE	9.05 Lakhs	Ongoing

Other Relevant Information

1. Dr. Priya Ranjan Pal received "Quarterly Franklin Membership", Membership ID#FL24861; given by Editorial Board of London Journals Press on 11/2019.

10.4 DEPARTMENT OF CHEMICAL ENGINEERING

Vision

To educate undergraduate and graduate students by offering solid foundation in both theoretical and applied aspects of Chemical Engineering and to discover and disseminate knowledge through research.

Mission

The Department is committed to achieving excellence in education, and evaluates the success of its programs using the highest standards of quality & visibility by providing a friendly and conducive atmosphere. Our goal is to provide strong fundamentals complemented

by professional skills including communication to the students.

List of Laboratories

1. Mass Transfer Laboratory
2. Chemical Technology Laboratory
3. Environmental Pollution Monitoring and Control Laboratory
4. Process Dynamics & Control Laboratory
5. FPM & MO Laboratory
6. Chemical Reaction Engineering Laboratory
7. PG Laboratory
8. CAD Laboratory

Courses run by Department:

1. B. Tech. (Chemical Engineering)
2. M. Tech. (Chemical Engineering)
3. Ph.D. (Chemical Engineering)

Courses in which students were admitted during 04/2019 - 03/2020:

1. B. Tech. (Chemical Engineering)

2. M. Tech. (Chemical Engineering)

3. Ph.D. (Chemical Engineering)

List of Ph.D. Thesis Completed

Sl.No.	Name of Student	Reg. No.	Thesis Title	Thesis Supervisor(s)
1.	Ms. Anju Kumari	2013RCL02	Reactive Extraction of Organic Compounds using Amine and Phosphorus based Extractants and Ionic Liquids: Experimental and Theoretical Studies.	Dr. Sushil Kumar & Dr. Ankur Gaur

Publication in International Journals

- Kumar, H., Gaur A., Kumar, Sushil, Park J. W., "Development of silver nanoparticles-loaded CMC hydrogel using bamboo as a raw material for special medical applications", Chemical Papers, Issue 73, pp.953–964, 04/2019, Published by Springer.
- Gautam, K., Kamsonlian, S., Kumar, Sushil, "Removal of Reactive Black 5 Dye from Wastewater using Electro-coagulation: Equilibrium Isotherms and Kinetic Study", Journal of Water Chemistry and Technology, pp.Accepted, 05/2019, Published by Springer.
- Arijit Dutta Gupta, Sweta Pandey, Vivek Kumar Jaiswal, Vivek Bhadauria and Harinder Singh, "Simultaneous oxidation and esterification of cellulose for use in treatment of water containing Cu(II) ions", Carbohydrate Polymers, vol.222, 05/2019, Published by Elsevier.
- Gautam, K., Kamsonlian, S., Kumar, Sushil, "Decolourization of Reactive Dye from Aqueous Solution using Electrocoagulation: Kinetics and Isothermal Study.", Z. Phys. Chem., pp. Accepted, 06/2019, Published by De Gruyter.
- Gautam, K., Kumar, S., Kamsonlian, S., "Decolourisation of Azo Dyes by Electro coagulation Process with Response Surface Methodology", Research Journal of Chemistry and Environment, 06/2019. (Scopus)
- Sawarkar, A. N., "Cavitation induced upgrading of heavy oil and bottom-of-the-barrel: A review", Ultrasonics Sonochemistry, vol.58, 07/2019, Published by Elsevier.
- Pandey Shitanshu, Kumar Sushil, "Reactive extraction of gallic acid from aqueous solution with Tri-n-octylamine in oleyl alcohol: Equilibrium, Thermodynamics and optimization using RSM-rCCD", Separation and Purification Technology, pp. Accepted, 08/2019, Published by Elsevier.
- Khajone, V. B.; Balinge, K. R.; Patle, D. S.; Bhagat, P. R., "Synthesis and characterization of polymer supported Fe-phthalocyanine entangled with carboxyl functionalized benzimidazolium moiety: A heterogeneous catalyst for efficient visible-light-driven degradation of organic dyes from aqueous solutions", Journal of Molecular Liquids Volume, vol.288, pp.111032, 08/2019, Published by Elsevier.
- Patle, D. S., Manca D., Salman, N. & Sharma S., "Operator training simulators in virtual reality environment for process operators: a review", Virtual Reality, vol.23, pp.293–311, 09/2019, Published by Springer.
- Arijit Dutta Gupta, Sweta Pandey, Vivek Kumar Jaiswal, Vivek Bhadauria, Harinder Singh, "Simultaneous oxidation and esterification of cellulose for use in treatment of water containing Cu(II) ions", Carbohydrate Polymers, vol.222, 10/2019.
- Anju Kumari, Ankur Gaur, Hasan Uslu, Sushil Kumar, "Reactive separation of p-nitro phenol (PNP) from aqueous solution using tri-n-butyl phosphate: equilibrium and COSMO-RS studies", Separation Science and Technology, vol.54, Issue 16, pp.2738-2748, 11/2019, Published by Taylor & Francis. (SCI)
- Aditya Ganesh, Bhavana Singh, Arijit Dutta Gupta, Dipankar Kalita, Yue Yue Zhong, Andreas Blennow, Harinder Singh, "Preparation of Starch Citrates Using Solvent Free Reaction and Comparison with Aqueous and Ethanol Mediated reactions", Starch/ Stärke, vol.72, pp. https://doi.org/10.1002/star.202000010, 01/2020, Published by Wiley. (SCI)
- V Sai Phani Kumar, Manju Verma, Parag A Deshpande, "On interaction of arginine, cysteine and guanine with a nano-TiO₂ cluster",

- Computational Biology and Chemistry, vol.86, pp.107236, 02/2020, Published by Elsevier. (SCI)
14. Harinder Singh, Rakesh Punia, Aditya Ganesh, Arijit Dutta Gupta, Amrit Kaur, and Andreas Blennow, "Modification of Moth Bean Starch Using Mixture of Organic Acids under Dry Heating.", *Starch/Starke*, vol.71, pp.9-10, 03/2020, Published by Wiley. (SCI, IF = 2.26)
 15. Harish Kumar, Kanhaiya Lal Maurya, Avneesh Kumar Gehlout, Deepshikha Singh, Sanjeev Maken, Ankur Gaur, and Suantak Kamsonlian, "Adsorptive removal of chromium(VI) from aqueous solution using binary bio-polymeric beads made from bagasse", *Applied Water Science*, Vol.10 (21),12/2019, Published by Springer. (SCI)
 16. Gajera, Z. R., Verma, K., Tekade, S. P., A. N. Sawarkar 2020, "Kinetics of co-gasification of rice husk biomass and high sulphur petroleum coke with oxygen as gasifying medium via TGA". *Bioresource Technology Reports*, 11, 100479. doi:10.1016/j.biteb.2020.100479.
 17. Singh, R. K., Pandey, D., Patil, T., Sawarkar, A. N., 2020. "Pyrolysis of banana leaves biomass: Physico-chemical characterization, thermal decomposition behavior, kinetic and thermo dynamic analyses". *Bioresource Technology*, 310,123464.doi:10.1016/j.biortech. 2020.12346.
 18. Singh, P., Singh, R. K., Gokul, P. V., Hasan, S. H., Sawarkar, A. N., 2020 "Thermal degradation and pyrolysis kinetics of two Indian rice husk varieties using thermogravimetric analysis". *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, doi:10.1080/15567036.2020.1736215.
 19. Singh, S., Sawarkar, A. N., 2020. "Thermal decomposition aspects and kinetics of pyrolysis of garlic stalk". *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, doi:10.1080/15567036.2020.1716891.
 20. Gautam Shashi Bala, Kamsonlian Suantak, M. Siraj Alam, "Equilibrium and thermodynamic aspects of as (III) with temperature onto raw coconut husk and iron impregnated coconut husk", *Research Journal of Chemistry and Environment*, Vol. 23, Issue 4, pp. 57-69, 04/2019, Published by International Congress of Chemistry and Environment (SCI, IF = 0.20) ISSN: 0972-0626,2018.
 21. Umesh Chandra Sharma, Sadhana Sachan, Friction and wear behavior of karanja oil derived biolubricant base oil, *SN Applied Sciences*, 1 (7), 2019, 668, Springer Nature.
 22. Shailendra Kumar Pandey, Sadhana Sachan, Sunil Kumar Singh, Electrochemically reduced graphene oxide modified with electrodeposited thionine and horseradish peroxidase for hydrogen peroxide sensing and inhibitive measurement of chromium, *Materials Science for Energy Technologies*, 2(2019) 676-696. Published by KeAi.
 23. Shailendra Kumar Pandey, Sadhana Sachan, Sunil Kumar Singh Ultra-trace sensing of cadmium and lead by square wave anodic stripping voltammetry using ionic liquid modified graphene oxide, , *Materials Science for Energy Technologies*, vol2(3)2019, 667-675. Published by KeAi.
 24. Harish Kumar, Avneesh Kumar Gehlout, Ankur Gaur, Jin-Won Park, Sanjeev Maken, Facile Synthesis of SiO₂/CMC/Ag Hybrids Derived from Waste Biomass (Sugarcane Bagasse) Having Special Medical Application *Journal of Nanoscience and Nanotechnology Vol(20) 2020 Page 6413-6421. (SCIE)*
 25. Himanshu Gupta, Harish Kumar, Mohit Kumar, Avneesh Kumar Gehlout, Ankur Gaur, Sadhana Sachan, Jin-Won Park, Synthesis of bio degradable films obtained from rice husk and sugarcane bagasse to be used as food packaging material. *Environmental Engineering Research*. 2020, page 506-514. (SCI)

Publication in International Conferences

1. Shrikhande, S.; Babu, G.U.B.; Nirmala, G. S.; Ahmad, Z.; Patle, D. S., "Investigating the Influence of Application of Vapour Recompression Technique on Ethyl Levulinate Reactive Distillation", *ICTEA: International Conference on Thermal Engineering*, PDPU, Gandhinagar, India, 05/2019, Published by Ryerson Canada.
2. Srivastava, A., Dangi, L. K. Radha Rani M., Kumar, S., "Decolorization of Azo dye Reactive

- Black 5 by Bacillus Sp., LD2 isolated from textile industry effluent", 72nd Annual Session of Indian Institute of Chemical Engineers, CHEMCON-2019, IIT Delhi, 12/2019.
3. Verma, R. K., Jain, A., Gautam K., Kumar, S, "Decolorization of Reactive Blue 4 using Airlift Electrocoagulation Reactor: Effect of Process Parameters and Economic Analysis", 72nd Annual Session of Indian Institute of Chemical Engineers, CHEMCON-2019, IIT Delhi, 12/2019.
 4. Pandey, S., Kumar, S, "Synergistic Extraction of Gallic Acid with Two Different Extractants Tri-n-octylamine and Aliquat-336 Dissolved in 1-Decanol", International Conference on Energy and Environmental Technologies for Sustainable Development (CHEM-CONFLUX20), MNNIT Allahabad, 02/2020.
 5. Patle, D. S., Pandey, A. Kamlesh Balinge, Vijay Khajone, Pundlik Bhagat, "Green Approach to Biodiesel Synthesis from Wet Microalgae using Ionic Liquid Catalyst in the Presence of Ultrasound", An international conference on energy and environmental technologies for sustainable development 'Chem-Conflux20', MNNIT Prayagraj, 02/2020, Published by Excellent Publishing House (ISBN: 978-93-86238-86-3).
 6. Arvind Jaiswal, Shitanshu Pandey, Dipesh S. Patle and Sushil Kumar, "Reactive Extraction of Pimelic Acid using TOA in a Biocompatible Medium- Experimental and Mathematical Modeling", International Conference on Energy and Environmental Technologies for Sustainable Development (Chem-Conflux20), MNNIT Allahabad, 02/2020.
 7. Ankita Srivastava, Sushil Kumar, Radha Rani M, "Bioremediation applications for removal of reactive dyes from waste water –Emerging techniques & Future scopes", International Conference on Energy and Environmental Technologies for Sustainable Development (Chem-Conflux 20), MNNIT Allahabad, 02/2020.
 8. Arun Arya, Malla Akash, Sadhana Sachan, "Coagulation–Ultrafiltration Hybrid System for River Water Treatment", Energy and Environmental Technologies for Sustainable Development, Chem conflux, MNNIT Allahabad, 02/2020.
 9. Gajera, Z. R., Verma, K., Sawarkar, A. N. "Co-gasification of rice husk and petroleum coke". International Conference on Biotechnological Interventions for Societal Development (Biosangam 2020) held at MNNIT Allahabad during February 21-23, 2020.
 10. Verma, K., Sawarkar, A. N. "Thermal decomposition behaviour and kinetics of pyrolysis of hahua de-oiled cake through TGA". International Conference on Biotechnological Interventions for Societal Development (Biosangam 2020) held at MNNIT Allahabad during February 21-23, 2020.
 11. Singh, S., Sawarkar, A. N. "Co-pyrolysis of corncob and plastic waste: Physico-chemical characterization, kinetics, and thermodynamic Analysis". International Conference on Energy and Environmental Technologies for Sustainable Development (Chem-Conflux 20) held at MNNIT Allahabad during February 14-16, 2020.
 12. Singh, R. K., Sawarkar, A. N. "Kinetics of pyrolysis of banana agro-residue". International Conference on Energy and Environmental Technologies for Sustainable Development (CHEM-CONFLUX20) held at MNNIT Allahabad during February 14-16, 2020.
 13. Sawarkar, A. N. Pyrolysis of waste tyres in the presence of rice husk ash. Paper presented at the 72nd Annual session of IChE (CHEMCON-2019) held at IIT Delhi during December 16-19, 2019.
 14. Shashi Bala Gautam, M. Siraj Alam, Kamsonlian Suantak, "Sorption of as (III) ION onto the surface of Raw and Modified Coconut Husk in Fixed Bed", International conference on "Energy and Environmental Technologies for Sustainable Development (Chem-Conflux20)" Organized by MNNIT Allahabad during 14-16 February 2020, Conference proceeding, pp. 103.
 15. Harish Kumar, Avneesh Kumar Gehlaut, Himanshu Gupta, Ankur Gaur, Jin Won Park, Development of Copper Loaded Nanoparticles Hydrogel Made from Waste Biomass (Sugarcane Bagasse) for Special Medical

Application. Key Engineering Material, Volume 847. Pages 102-107 (Scopus).

Publication in National Conferences

1. Himanshu Gupta, Avneesh Kumar Gehlaut, Satish Kumar Singh, Harish Kumar, Ankur Gaur, Sadhana Sachan, "Recent Trends in Application of Nano Particles in Biopolymer Films: Review", Industrial Applications of Nanoscience and Nanotechnology [IANN 2019], MNNIT Allahabad, U.P., 11/2019, Published by IANN-2019.
2. Vikas K. Choudhary, Bushra Khatoon, Wasim Khan, Sadhana Sachan, M Siraj Alam, "10. Liquid-Liquid Extraction in Microchannel", Industrial Applications of Nanoscience and Nanotechnology [IANN 2019], MNNIT Allahabad, U.P., 11/2019, Published by IANN-2019.
3. Praveen Dubey, Suantak Kamsonlian and Ankur Gaur, "Ecotoxicological Impacts of Green Synthesized Iron Nanoparticles", Industrial Applications of Nanoscience and Nanotechnology [IANN 2019], MNNIT Allahabad, U.P., 11/2019, Published by IANN-2019.
4. Patle, D., Saxena, D., Srivastava, A. Kumar, S, "Wastewater Treatment using Nano-Adsorbents based on Chitin/Chitosan Derivatives: A Review", National Conference on Industrial Applications of Nanoscience & Nanotechnology, MNNIT Allahabad, 11/2019.
5. Malla Akash, Sadhana Sachan, Manju Verma, "Recent trends in the synthesis of Hybrid polymer/clay Nano composites: An overview", Industrial Applications of Nanoscience and Nanotechnology [IANN 2019], MNNIT Allahabad, U.P., 11/2019, Published by IANN-2019.
6. Wasim Khan, Bushra Khatoon, A. K. Chandra, Sadhana Sachan, M. Siraj Alam, "Hydrodynamic Study of Two-Phase Fluid Flow in T-junction Microchannel", Industrial Applications of Nano science and Nanotechnology, MNNIT Allahabad, U.P., 11/2019, Published by IANN-2019.
7. Abhishek Kumar Chandra, Wasim Khan, Vaibhav Sharma, Sadhana Sachan and M S Alam, "Liquid-Liquid Two Phase Flow and Heat Transfer in Microchannel", Industrial Applications of Nanoscience and Nanotechnology [IANN 2019], MNNIT Allahabad, U.P., 11/2019, Published by IANN - 2019.
8. Verma, K., Gajera, Z. R., Sawarkar, A. N. "Kinetics of co-gasification of petcoke and coal". National Conference on Advances in Chemical Engineering and Science (ACES- 2020) held at IISER, Bhopal during February 28-26, 2020.
9. Patil, T., Sawarkar, A. N. "Banana agro-residue as a potential source of bioenergy". 15th Students' Chemical Engineering Congress (SCHEMCON-2019) to be held at SRICT, Ankleshwar during October 17-18, 2019.
10. Patle, D.S., Pandey, A., Srivastava, S., Ranjan, S. Ultrasonic Intensified Biodiesel Production from Algal Biomass: A Review of Current Advancements, Issues, and Future Directions, An International conference on energy and environmental technologies for sustainable development 'Chem-Conflux20', MNNIT Allahabad, India, Feb 14-16, 2020.
11. Kumar, A., Kumar, S., Sawarkar, A. N., Patle, D.S. In Situ Synthesis of Fatty Acid Methyl Ester from Microalgae: A Dry Route Approach vs A Wet Route Approach, An International Conference on Energy and Environmental technologies for Sustainable development 'Chem -Conflux20', MNNIT Allahabad, Feb 14-16, 2020.
12. Ahmed, M., Ahmed, Z., Rohman, F.S., Patle, D.S. In-situ Transesterification of Microalgal Biomass: A Simulation Study, An international conference on energy and environmental technologies for sustainable development 'Chem -Conflux20', MNNIT Allahabad, India, Feb 14-16, 2020.
13. Bushra Khatoon, Vikas K. Choudhary, Wasim Khan, Shabih-Ul- Hasan, M. Siraj Alam, "Kinetic Study of CO₂ Capture using Amines in Conventional and Microfluidic Devices", National conference on "Industrial Application of Nano-Science & Nanotechnology (IANN-2019)" Organized by MNNIT Allahabad during 15-16 November 2019, Conference proceeding, pp. 16.
14. Rashmi Priya, Wasim Khan, and M. Siraj Alam, "Enhancement of Heat Transfer using Mixture of Nanofluids", National conference on "Industrial Application of Nano-Science & Nanotechnology (IANN-2019)" Organized by MNNIT Allahabad during 15-16 November 2019, Conference proceeding, pp. 19.

15. Rajesh Kumar, Wasim Khan, ParulKatiyar, M. Siraj Alam, "Numerical Analysis of Double Pipe Heat Exchanger Heat Transfer Performance using Al₂O₃- Water base Nanofluid as a Coolant", National conference on "Industrial Application of Nano-Science & Nanotechnology (IANN-2019)" Organized by MNNIT Allahabad during 15-16 November 2019, Conference proceeding, pp. 23.
16. W. Khan, B. Khatoon, A. K. Chandra, K. Kishor, S. Sachan and M. Siraj Alam, Numerical study of two phase fluid flow in a T-junction microchannel, Proceedings of the National Conference on Computational Modeling of Fluid Dynamics Problems (CMFDP-2019) NIT Warangal, India – Jan 18-20, 2019, pp-O-43.

Reviewer in International Journals and Conferences

Sl. No.	Faculty Name	Journal Name
1.	Dr. Sadhana Sachan	Journal of Polymers and the Environment Journal of Institution of Engineers (India): Series E Chemical and Biochemical Engineering Quarterly Journal of Applied Polymer Science
2.	Dr. Ankur Gaur	Environmental Technology Emerging Trends in Chemical Engineering Clean Technologies & Environment Policies
3.	Dr. Ashish Nivrittinath Sawarkar	Ultrasonics Sonochemistry Environmental Science and Pollution Research Energy Conversion and Management
4.	Dr. Dipesh Shikchand Patle	ISA Transactions; Chemical Engineering Science; Fuel; Chemical Product & Process Modeling; Bentham Science
5.	Dr. Harinder Singh	International Journal of Food Science & Technology Food Hydrocolloids Food Chemistry Starch Critical Reviews in Food and Nutrition Journal of Food Processing and Preservation
6.	Dr. Mohd Siraj Alam	Chemical Engineering Research and Design The Institution of Engineers (India): Series E Chemical Engineering Transaction Chemical Engineering Science Applied Organometallic Chemistry Chemical Engineering Communications International Communications in Heat & Mass Transfer
7.	Dr. Sushil Kumar	Separation and Purification Technology Chemical Data Collections Journal of Dispersion Science and Technology Journal of Water Process Engineering Journal of Chemical and Engineering Data (03) Book on Process Dynamics and Control (Wiley Publication, India) Various papers submitted for proceedings, International conference on energy and environmental technologies for sustainable development 'Chem-Conflux20'
8.	Dr. Suantak Kamsonlian	Journal of Indian Chemical Society African Journal of Environmental Science and Technology Book on Process Safety Engineering and Management (Wiley Publication, India)

Book(s)/ Book Chapter Authored

Sl. No.	Faculty Name (Author/ Co-author)	Book	Book Chapter	Publisher
1.	S. Kumar and D.S. Patle	Proceeding An international conference on energy and environmental technologies for sustainable development 'Chemvom Flux ²⁰ '	Complete Book	Excellent Publishing House (ISBN:978-93-86238-86-3)
2.	Suantak Kamsonlian, CB Majumder, S. Chand & S.S. Suresh	Current Perspectives of Environment and Climate Change	Biosorption of Cd (II) & As (III) ions from aqueous solution by tea waste biomass	Sciencedomain International
3.	ParulKatiyar, Jayant K. Singh	"Bijels-Bicontinuous Particle-stabilized Emulsions"	Book Chapter "The effect of Nanoparticles on the Oil-Water Interfacial Tension in the presence of Nonionic Surfactants".	Royal Society of Chemistry

Invited Lectures Delivered

1. Dr. Sushil Kumar at National Workshop on Bio-Technological Approaches for Industrial Waste Management and Renewable Energy, Convener on 05/04/2019 entitled Bio-kinetics in wastewater treatment process.
2. Dr. Sushil Kumar at STC, BIET Jhansi on 29/07/2019 entitled Chemical Processing in High-Gravity Fields: Rotating Packed Bed.
3. Dr. Dipesh Shikchand Patle at STC, BIET Jhansi on 29/07/2019 entitled Plantwide Control and safety Analysis - case studies considering biodiesel and formic acid processes.
4. Dr. Sadhana Sachan at FDP on Expanding Horizon of Bioprocessing, Department of Biochemical Engineering, HBTU Kanpur on 12/02/2020 entitled Industrial prospects of membrane based bioprocessing.
5. Dr. Suantak Kamsonlian at workshop on Biotechnology Approaches for Industrial Waste Management and Renewable Energy (IWMRE-2019) organised by Biotechnology Department, MNNIT Allahabad on April 1-7, 2019 entitled A potential of tea waste biomass for arsenic removal from contaminated water.

6. Dr. Suantak Kamsonlian at a Campaign on observance of Swachhta Pakhwada 2019 at MNNIT Allahabad, Prayagraj, India during 09/09/2019 to 15/09/2019 entitled Ban on single use plastics.
7. Dr. Harinder Singh on "Novel Processing Technologies of Starch Modification" at Faculty Development Programme on "Recent Advancement in Food Processing and Preservation" on 28th August 2019 at Harcourt Butler Technical University (HBTU), Kanpur.
8. Dr. Harinder Singh on "High Pressure and Ultrasound in Food Processing and Starch Modification" in National Training on "Emerging Technologies for Food Preservation and Safety" on March 13, 2020 under Centre for Advanced Agricultural Science and Technology on National Crops at Chandra Shekhar Azad University of Agriculture and Technology, Kanpur.

Invited Lectures Organized

1. Mr. Abhishek Pandey, Departmental Alumnus, Worked with HMEL and CI on 09/2019 on "Career Prospects in Chemical Engineering".

Events Organized by Department

Sl. No.	Name	Title	From	To
1.	Workshop cum Summer Training Programme	Research Aspects in Chemical Engineering (RACE-2019), MNNIT Allahabad	24.05.2019	06.07.2019

2.	Campaign on Observance of Swachhta Pakhwada 19	The activities comprise of (a) "Jal Shakti Abhiyaan" in mission mode, and (b) Ban on single use plastics	09.09.2019	15.09.2019
3.	National Conference	National Conference on Industrial Applications of Nanoscience & Nanotechnology, MNNIT Allahabad	15.11.2019	16.11.2019
4.	International Conference	Chem-Conflux20, an International Conference on Energy and Environmental Technologies for Sustainable Development, MNNIT Allahabad	14.02.2020	16.02.2020

Events Attended

- Dr. Manju Verma attended Workshop on One Day Workshop on Hindi at Motilal Nehru National Institute of Technology Allahabad, Prayagraj, India during 28/06/2019 to 28/06/2019.
- Dr. M. Siraj Alam, Dr. Sushil Kumar & Dr. Manju Verma attended Workshop on NBA Accreditation: Regulations and Procedure at Motilal Nehru National Institute of Technology Allahabad, Prayagraj, India during 27/07/2019 to 27/07/2019.
- Dr. Manju Verma and Dr Parul Katiyar attended Workshop on Faculty Orientation Programme at Motilal Nehru National Institute of Technology Allahabad, Prayagraj, India during 18/09/2019 to 19/09/2019.
- Dr. Suantak Kamsonlian attended a Campaign on observance of Swachhta Pakhwada 2019 at Motilal Nehru National Institute of Technology Allahabad, Prayagraj, India during 09/09/2019 to 15/09/2019.
- Prof. Sadhana Sachan, Dr. M. Siraj Alam, Dr. Sushil Kumar, Dr. Ankur Gaur, Dr. Harinder Singh, Dr. Shabih Ul Hasan, Dr. Suantak Kamsonlian, Dr. Dipesh S. Patle, Dr. Parul Katiyar and Dr. Manju Verma attended International conference on International Conference on Energy and Environmental Technologies for Sustainable Development (Chem-Conflux20) at MNNIT Allahabad during 14/02/2020 to 16/02/2020.
- Dr. Sushil Kumar, Dr. M. Siraj Alam and Dr. Ankur Gaur, Dr. Harinder Singh, Dr. Ashish N. Sawarkar and Dr. Suantak Kamsonlian attended International conference on Bio-Sangam 2020, International Conference on Biotechnological Interventions for Societal Development at MNNIT Allahabad during 21/02/2020 to 23/02/2020.
- Dr. Ashish N. Sawarkar attended the 72nd Annual Session of IChE (CHEMCON-2019) held at IIT Delhi during December 16-19, 2019.

Research Projects Completed/Ongoing

Sl. No.	Principal Investigator/Co investigator(s)	Project Title	Funding Agency	Amount (INR)	Duration
1.	Dr. Dipesh S. Patle (PI)	In situ biodiesel production from microalgae using ultrasonic assisted reactor	SERB	9.71 Lakhs	Ongoing
2.	Dr. Mohd Siraj Alam, (Co.PI)	Heat Transfer in Nucleate Pool Boiling of Multicomponent Mixtures on Modified Surfaces.	AICTE, TEQIP-III	18.67 Lakhs	Ongoing
3.	Dr. Sushil Kumar &	Inspection of GPls for compliance	CPCB,	1.00	Ongoing

	Dr. M. Siraj Alam (Co-PI)	verification of effluents discharge standard	New Delhi	Lakhs	
4.	Dr. Ashish N. Sawarkar, (PI)	Studies on Pyrolysis of Rice Husk	MVP, Mumbai	1.00 Lakhs	Ongoing
5.	Dr. Dipesh Shikchand Patle, (Co-PI)	Direct biodiesel synthesis from microalgae through in situ transesterification using homogeneous catalyst	USM Malaysia (RUI)	0.70 Lakhs	Ongoing
6.	Dr. Ankur Gaur (PI)	Development & Characterization of Nano-material based Transparent Thermal Coating	Starshield Paint, Ghaziabad	1.20 Lakhs	Completed
7.	Dr. Harinder Singh (PI)	Effect of dual modifications of starch isolated from various cultivars of sorghum for the production of specialty and resistant starches and evaluation of genotype diversity in cultivars using flour as model	MOFPI, New Delhi	31.6 Lakhs	Ongoing
8.	Dr. Sushil Kumar (PI)	Bioremediation for the removal of reactive dyes from industrial waste water	CST, UP Lucknow	10.44 Lakhs	Ongoing
9.	Dr. Suantak Kamsonlian (PI)	Development of a novel electrochemical membrane bioreactor (EMBR) for the treatment of low strength municipal wastewater and generation of sustainable bioelectricity simultaneously	SERB, New Delhi	39.30 Lakhs	Ongoing
10.	Dr. Harinder Singh (PI)	Design of Food Products for Diabetic and Hyperuricemia Patients using Enzymatic and Chemical Modification	DIC, MHRD	0.5 Lakhs	Completed on 06/2019
11.	Dr. Ashish N. Sawarkar (PI)	Value Added Products from Bottom -of-the-barrel	Institute Grant, MNNIT Allid.	2.18 Lakhs	Completed

Award Received by faculty

1. Dr. Sushil Kumar received Nomination for Bharat Vikas Award 2019, by Institute of Self Reliance, Bhuvanagar on 09/2019.
2. Dr. Sushil Kumar received Venus International Award 2019 for Outstanding Scientist in Chemical Engineering by Venus International Foundation, Chennai on 10/2019.

10.5 DEPARTMENT OF CHEMISTRY

Vision

To develop state-of the-art infrastructure for providing high quality education and training in chemical sciences in tune with the contemporary global scenario.

Mission

To train and help engineering undergraduate students to acquire experimental and theoretical knowledge in applied chemistry. Also to train Ph.D. students in chemical sciences to become

independent researchers having good fundamental understanding of the subject to cater the academic and industry needs.

List of Laboratories

1. Undergraduate Laboratory.
2. Research Laboratory.

Courses Run by Department:

1. Chemistry CY11101.
2. Chemistry CY12101.
3. Chemistry Lab CY11201.
4. Chemistry Lab CY12201.
5. OPC CY14101.
6. OPC Lab CY 14251.
7. Nano-Biotechnology CY1781.
8. Advance Spectroscopy CY71111.

Courses in which students were admitted during 04/2019 - 03/2020 :

1. Chemistry CY11101.
2. Chemistry CY12101.
3. Chemistry Lab CY11201.

- | | |
|---------------------------|----------------------------------|
| 4. Chemistry Lab CY12201. | 7. Nano-Biotechnology CY1781. |
| 5. OPC CY14101. | 8. Advance Spectroscopy CY71111. |
| 6. OPC Lab CY 14251. | |

List of Ph.D. Thesis Completed

Sl. No.	Name of Student	Reg. No.	Thesis Title	Thesis Supervisor(s)
1.	Ms. Kamini Gupta	2014RCH01	Synthesis, characterization and application of titanium and bismuth based visible light responsive photocatalysts	Dr. Ashutosh Pandey

Publication in International Journals

- Shefali Jaiswal, P. K. Dutta, Santosh Kumar, Joonseok Koh, Shambhavi Pandey, "Methyl methacrylate modified chitosan: synthesis, characterization and application in drug and gene delivery", *Carbohydrate Polymers*, vol.211, pp.109-117, 05/2019, Published by Elsevier. (SCI, IF = 6.044)
- Kamini Gupta, Jatineder kumar, R. P. Singh, Anjana Pandey, Priya Rai, Ashutosh Pandey, "Standardised nanostructured Ta/N-TiO₂ for environmental contaminants: an efficient visible light induced photochemical quencher for dyes", *Materials Technology Advance Performance Materials*, vol.34, Issue 13, pp.765-775, 06/2019, Published by Taylor & Francis. (SCI, IF = 1.738)
- Bhanumathi Devi N C, Someswara Rao N., Tamal Ghosh, Alok Mukerjee, "15¹⁵N-NMR spectroscopic studies and investigation of spectral data property relationships of proton pump inhibitors", *Journal of Applied Pharmaceutical Science*, vol.9, Issue 6, pp.61-66, 07/2019, Published by Open Science Publishers. (Scopus)
- Kazim S. Rizvi & P. K. Dutta, "Chitosan Modification by New Chromophore 4-(3-(4-nitrophenyl) thioureido) benzoic acid: Synthesis, Characterization and Evaluation", *J. Polymer Materials*, vol.36, Issue 3, pp.217-228, 07/2019, Published by Prints Publication. (Scopus, IF= 0.409)
- Anu Singh, P. K. Dutta, Hridyesh Kumar, Amit K. Kureel & Amabk K.Rai, "Improved antibacterial and antioxidant activities of gallic acid grafted chitin-glucan complex", *J.Polymer Research*, vol.26, pp.234-244, 10/2019, Published by Springer. (SCI, IF = 1.53)
- Bhanumathi D. N. C, Rao N. S., Ghosh T. and Mukerjee A., "Correlation Between Pharmacokinetic Properties and 15¹⁵N-NMR and 13¹³C-NMR Chemical Shifts of Angiotensin Converting Enzyme Inhibitors", *Indian Drugs*, vol.56, Issue 10, pp.26-32, 10/2019, Published by Indian Drug Manufacturers' Association. (Scopus)
- Nazrul Hsan, Santosh Kumar P. K. Dutta, "Climate change: can Chemistry support to reduce carbon value? if so, the role of Chitosan", *Asian Chitin Journal*, vol.15, Issue 2, pp.1-10, 12/2019, Published by SSM.
- Srasti Yadav, G. K. Mehrotra, Prabha Bhartiya, Anu Singh & P. K. Dutta, "Preparation, Physicochemical and Biological Evaluation of Quercetin based Chitosan-gelatin Film for Food Packaging", *Carbohydrate Polymers*, vol.227, pp.115348, 01/2020, Published by Elsevier. (SCI, IF = 6.044)
- Pandey, Anjana; Srivastava, Saumya; Gayatri; Rai, Priya; Pandey, Ashutosh, "Colorimetric Sensing of Methyl Parathion using Nanozymatic Activity of Gold Nanoparticles", *Advanced Science, Engineering and Medicine*, vol.12, Issue 2, pp.232-241, 02/2020, Published by American Scientific Publishers. (SCI, IF = .39)
- Kiran Gupta, R. P. Singh, Ashutosh Pandey and Anjana Pandey, "Photocatalytic antibacterial performance of TiO₂ and Ag-doped TiO₂ against *S. aureus*, *P. aeruginosa* and *E. coli*", *Beilstein J. Nanotechnology*, vol.11, pp.547-549, 03/2020, Published by Beilstein, Germany. (SCI, IF= 2.968)

Patents

- Patent no.201911043605, dated 26/10/2019 Entitled A novel method of GNP synthesis and its application for heavy metals (Cr³⁺, Cd²⁺ and

Hg²⁺) detection through electrochemical analyzer. Applied on 26/10/2019. The details are follows: A novel method of GNP synthesis and

its application for heavy metals (Cr³⁺, Cd²⁺ and Hg²⁺) detection.

Reviewer in International Journals and Conferences

Sl. No.	Faculty Name	Journal Name
1.	Dr. Ashutosh Pandey	Inorganica Chimica Acta Inorganic Chemistry Materials Letters Ceramics Chemistry
2.	Dr. G. K. Mehrotra	Journal of Nanoscience and Nanotechnology Journal of Molecular Structure Nano Medicine Molecular Liquids Trends in Food Science & Technology Green Chemistry
3.	Dr. P.K. Dutta	International Journal of Biological Macromolecules RSC Advances African J. Biotechnology IET Nanotechnology Materials Research Exp. Biomacromolecules Journal of Materials Chemistry B Journal of Polymer Materials Cell. Physiol. Biochem Carbohydrate Polymers Colloids and Surfaces B Food Hydrocolloids Carbohydrate Polymers Materials Science & Engg C Journal of Biological Macromolecules Carbohydrate polymers Journal of Physics and Chemistry of Solids
4.	Dr. Tamal Ghosh	Sensors and Actuators B: Chemical Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy Applied Organometallic Chemistry Inorganica Chimica Acta Optical Materials

Book(s)/ Book Chapter Authored

Sl. No.	Faculty Name (Author/ Co-author)	Book	Book Chapter	Publisher
1.	Sudheer Rai, G. K. Mehrotra & P. K. Dutta	Lignin-Chitosan Polymer Composite Materials for Multifunctional Applications	Complete Book	KDP publisher
2.	Prabha Bhartiya & P. K. Dutta	Smart MRI Contrast agents in the light of Chitosan Biopolymers: Chitosan based MRI Contrast agent	Complete Book	KDP publisher

Invited Lectures Delivered

- Lecture delivered by Dr. P. K. Dutta at 8th ICCSS held at Mumbai, 8th ICCS on 18/09/2019 entitled the glimpses of multi-speciality applications of chitosan.

Events Organized by Department

Sl. No.	Name	Title	From	To
1.	Wokshop	Vigilance Awareness, Chemistry Department, MNNIT Allahabad	31.10.2019	31.10.2019

Events Attended

1. Dr. P. K. Dutta attended National conference on 8th ICCS at Mumbai on/during 18/09/2019 to 19/09/2019.

10.6 DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Vision

The Computer Science & Engineering Department of Motilal Nehru National Institute of Technology Allahabad would continue to provide leading programs in the field of computing. The graduates produced would be globally recognized as innovative and well-prepared computing professionals. These graduates would be leaders and innovators in the industry, education, and other walks of social life. The faculty working in the department would influence the national and international agenda through quality in teaching and research. Department would strive for inter-disciplinary pursuits that reinforces the impact of computation in other disciplines.

Mission

To offer high quality undergraduate and graduate programs, to train the students in different aspects of computing discipline and to offer other training programs to enhance, augment, and/or update technical skills of stake holders. To provide a learning environment that helps students to be successful in their professional lives and to prepare students to be lifelong learners by offering a solid theoretical foundation in computing along with applied computing experiences and educating them about their professional, and ethical

responsibilities. To have high quality faculty and staff with an appropriate know how and degrees with a commitment to remain professionally advanced through ongoing research and professional development programs. To attract and retain a diverse and multicultural population of student, faculty, and staff.

List of Laboratories:

1. Image Processing.
2. Information Security.
3. Microprocessor and Computer Architecture.
4. Distributed Computing.
5. P.G. Laboratory.
6. U.G. Laboratory.
7. Software Testing Lab.

Courses Run By Department:

1. B. Tech. in Computer Science and Engineering.
2. B. Tech. in Information Technology.
3. M. Tech. in Computer Science and Engineering.
4. M. Tech. in Software Engineering.
5. M. Tech. in Information Security.
6. MCA.

Courses in which students were admitted during 04/2019 - 03/2020 :

1. B. Tech. in Computer Science and Engineering.
2. B. Tech. in Information Technology.
3. M. Tech. in Computer Science and Engineering.
4. M. Tech. in Software Engineering.
5. M. Tech. in Information Security.
6. MCA.

List of Ph.D. Thesis Completed

Sl.No.	Name of Student	Reg. No.	Thesis Title	Thesis Supervisor(s)
1.	Ms. Shruti Jadon	2013RCS01	Load Balancing Based Scheduling Algorithms for Mixed Real Time Tasks on Multicore Systems.	Dr. R. S. Yadav
2.	Mr. Tarun Kumar	2014RCS02	An Integrated Traffic Surveillance System	Dr. D. S. Kushawaha

- | | | | | |
|----|------------------|-----------|--|-------------------|
| 3. | Ms. Abha Trivedi | 2013RGI04 | for Smart City.
Evaluation and Testing of Crowd Management Strategies using Agent Based Modelling and Simulation for KumbhMela like Large Religious Gatherings. | Dr. Mayank Pandey |
|----|------------------|-----------|--|-------------------|

Publication in International Journals

1. Naveen Kumar Gupta, Rama Shankar Yadav, Rajendra Kumar Nagaria, "3D geographical routing protocols in wireless ad hoc and sensor networks: an overview", *Wireless Networks*, pp.1-18, 04/2019, Published by Springer. (SCI, IF = 2.405)
2. Sanjeev Kumar, Suneeta Agarwal and Ranvijay, "Fast and Memory Efficient Approach for Mapping NGS Reads to a Reference Genome", *Journal of Bioinformatics and Computational Biology* (vol.17, Issue 2, pp.1950008-19, 04/2019, (SCI)
3. Prashant Kumar, Naveen Kumar Gupta, Rama Shankar Yadav, Rajendra Kumar Nagaria, "An Improved Token-based Distributed Mutual Exclusion Algorithm", *International Journal of Engineering and Advanced Technology*, vol.8, Issue 4, pp.340-349, 04/2019, (Scopus)
4. Mishra A K, Yadav D K, Kumar Y & Jain N, "Improving reliability and reducing cost of task execution on preemptible VM instances using machine learning approach", *The Journal of Supercomputing*, vol.75, Issue 4, pp.2149-2180, 04/2019, Published by Springer US. (SCI, IF= 2.16)
5. Tribhuvan Singh, Krishn Kumar Mishra, "Multiobjective environmental adaptation method for solving environmental/ economic dispatch problem", *Evolutionary Intelligence*, vol.12, Issue 2, pp.305-319, 04/2019, Published by springer. (Scopus)
6. Prince Rajpoot & Pragya Dwivedi, "Multiple parameter based energy balanced and optimized clustering for WSN to enhance the Lifetime using MADM Approaches", *Wireless Personal Communications*, vol.106, Issue 2, pp.829-877, 05/2019, Published by Springer. (SCI, IF = 0.929)
7. Priyanka Singh & Pragya Dwivedi, "A novel hybrid model based on neural network and multi-objective optimization for effective load forecast", *Energy*, vol.182, pp.606-622, 06/2019, Published by Elsevier. (SCI , IF = 5.537)
8. Tarun Kumar and Dharmender Singh Kushwaha, "An Intelligent Reconnaissance Framework for Homeland Security", *Defence Science Journal*, vol.69, Issue 4, pp.361-368, 07/2019, Published by Defence Scientific Information and Documentation Centre. (SCI, IF = 0.500)
9. Vibhav Prakash Singh, Rajeev Srivastava, Yadunath Patak and Shailendra Tiwari, "Content-Based Image Retrieval Based on Supervised Learning Framework Statistical Based Moments", *Modern Physics Letter B*, vol.33, Issue 19, pp.1-23, 07/2019, Published by World Scientific Journal. (SCI, IF = 1.2)
10. Garv Modwel, Anu Mehra, Nitin Rakesh, K K Mishra, "An Innovative Technique to Encrypt Videos for Authenticity or Ownership Protection Using PCA Applied in E-Commerce", *International Journal of Information System Modeling and Design (IJISMD)*, vol.10, Issue 3, pp.19-40, 07/2019, Published by IGI Global. (Scopus)
11. Ashish Kumar Sahu, Pragya Dwivedi, "User profile as a bridge in cross-domain recommender systems for sparsity reduction", *Applied Intelligence*, vol.49, Issue 7, pp.2461–248, 07/2019, Published by Springer. (SCI, IF= 2.88)
12. Ashish Kumar Maurya, Kashish Modi, Vinay Kumar, Nenavath Srinivas Naik and Anil Kumar Tripathi, "Energy-aware scheduling using slack reclamation for cluster systems", *Cluster Computing*, vol.23, Issue 2, pp.911-923, 07/2019, Published by Springer. (SCI, IF= 3.458)
13. Lekhraj, Anoj Kumar, "Clustering in wireless sensor network: A Review", *Journal of innovation*

- in Computer Science and Engineering (JICSE), 08/2019,
14. Nitin Shukla, Mayank Pandey, Shashank Srivastava, "Formal modeling and verification of software defined networks: A survey", (Wiley) international journal of network management, vol.29, Issue 5, pp.1-28, 09/2019. (SCI, IF= 1.231)
 15. Naveen Kumar, Abdul Aleem, Ashutosh Kumar Singh, Shashank Srivastava, "NBP: Namespace-based privacy to counter timing-based attack in named data networking", Journal of Network and Computer Applications, vol.144, pp.155-170, 10/2019, Published by Elsevier, Academic Press. (SCI, IF = 5.273)
 16. Jagrati Singh, Anil Kumar Singh, "Semrank - Semantic Similarity based Tweets ranking approach", International Journal of Cognitive Informatics and Natural Intelligence, pp.0, 10/2019, Published by IGI Global. (Scopus)
 17. Ashutosh Kumar Singh, Saurabh Maurya, Naveen Kumar, Shashank Srivastava, "Heuristic approaches for the reliable SDN controller placement problem", Transactions on Emerging Telecommunications Technologies, vol.31, Issue 2, pp.3761, 10/2019, Published by Wiley. (SCI)
 18. Biru Rajak, Shrabani Mallick, Dharmender Singh Kushwaha, "An Efficient Emergency Vehicle Clearance Mechanism for Smart Cities", Journal of Mechanics of Continua and Mathematical Sciences, vol.14, Issue 5, pp.78-97, 10/2019. (Scopus)
 19. Naveen Kumar, Ashutosh Kumar Singh, Abdul Aleem, and Shashank Srivastava, "Security Attacks in Named Data Networking: A Review and Research Directions", Journal of Computer Science and Technology, vol.34, Issue 6, pp. 1319-1350, 11/2019, Published by Springer US. (SCI, IF = 1.506)
 20. Shailesh Tiwari, Anuj Kumar, Akash Punhani, K. K. Mishra, "Modified Environmental Adaptation Method and its Application in Test Case Generation", Journal of Engineering Science & Technology Review, vol.12, Issue 6, 11/2019, (Scopus)
 21. Ashish Tripathi, K. K. Mishra, Shailesh Tiwari, P. C. Vashist, "Nature inspired optimization algorithm for prediction of "minimum free energy" "RNA secondary structure", Journal of Reliable Intelligent Environments, vol.5, Issue 4, pp.241-257, 12/2019, Published by Springer. (Scopus)
 22. Dharendra Kumar Shukla, Divya Kumar and Dharmender Singh Kushwaha, "An efficient tasks scheduling algorithm for batch processing heterogeneous cloud environment", International Journal of Advanced Intelligence Paradigms, 02/2020, Published by Inderscience. (Scopus)
 23. J. Sathish Kumar, Saurabh K Pandey, Meghavi Choksi and Mukesh A. Zaver, "Collaborative Data Acquisition and Processing for Post Disaster Management and Surveillance Related Tasks using UAV based IoT Cloud", International Journal of Ad-Hoc and Ubiquitous Computing, vol.34, Issue 4, pp.216-232, 2020, Published by Inderscience. (SCI, IF= 0.722)
 24. Shashank Gupta, Divya Kumar, K K Mishra, "Chaotic and Co-variance Based Artificial Bee Colony Algorithm.", Journal of Multiple-Valued Logic & Soft Computing, vol.34, Issue 1, pp.25-42, 01/2020, Published by old city. (SCI)
 25. Singh, Avjeet. & Kumar Anoj, "A Survey on Applications of Nature-Inspired Metaheuristic Algorithms", International Journal of Advanced Intelligence Paradigms (IJAIP), 01/2020, Published by Inderscience Publisher. (Scopus)
 26. Rohit Kumar Sachan and D. S. Kushwaha, "Anti-Predatory NIA for Unconstrained Mathematical Optimization Problems", International Journal of Swarm Intelligence Research (IJSIR), vol.11, Issue 1, pp.1-23, 01/2020, Published by IGI Global. (SCI)
 27. Komal Bajaj, D. K. Singh, Aquib Ansari, "Autoencoders Based Deep Learner for Image Denoising", Procedia Computer Science, vol.171, pp.1535-1541, 01/2020, Published by Elsevier. (Scopus)
 28. Rohit Kumar Sachan, Tarun Kumar and D. S. Kushwaha, "Solving the E-Commerce Logistic Problem using Anti-Predatory NIA", International Journal of Intelligent Engineering Informatics (IJIEI), vol.8, Issue 1, pp.54-76, 01/2020, Published by Inderscience. (SCI)
 29. Ashish Kumar Sahu, Pragya Dwivedi, "Aligned Intrinsic User Factors Knowledge Transfer for

- Cross-domain Recommender Systems", *Procedia Computer Science*, vol.167, pp.363-372, 01/2020, Published by Elsevier. (Scopus)
30. Neelam Dwivedi, D. K. Singh, D. S. Kushwaha, "An Approach for Unattended Object Detection through Contour Formation using Background Subtraction", *Procedia Computer Science*, vol.171, pp.1979-1988, 01/2020, Published by Elsevier. (Scopus)
 31. D. K. Singh, Sumit Paroothi, Mayank Kumar Rusia, Aquib Ansari, "Human Crowd Detection for City Wide Surveillance", *Procedia Computer Science*, vol.171, pp.350-359, 01/2020, Published by Elsevier. (Scopus)
 32. Anurag Pandey, Mayank Pandey, Navjot Singh, Abha Trivedi, "Kumbh Mela: a case study for dense crowd counting and modeling", *Multimedia Tools and Applications*, pp.1-22, 02/2020, Published by Springer. (SCI, IF= 2.313)
 33. Navjot Singh, K. K. Mishra and Sanjiv Bhatia, "SEAM - an improved environmental adaptation method with real parameter coding for salient object detection", *Multimedia Tools and Applications*, 02/2020, Published by Springer. (SCI, IF = 2.313)
 34. Shashwati Banerjee, Mayank Pandey, M. M. Gore & Ashish Kumar, "Publish/ Subscribe-Based P2P-Cloud of Underutilized Computing Resources for Providing Computation-as-a-Service", *Proceedings of the National Academy of Sciences, India Section A: Physical Sciences*, pp.01-10, 02/2020, Published by Springer. (SCI, IF = 0.921)
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 38. Maingar Yadav and Ranvijay, "Collusion attacks in XOR based RG-VSS. in *International Journal of Innovative Technology and Exploring Engineering(SCOPUS Indexed)*. 2019
 39. Sanjeev Kumar, Suneeta Agarwal and Ranvijay, "An efficient tool for searching maximal and super maximal repeats in Large DNA sequences via Induced-Enhanced Suffix Array", *Recent Patents on Computer Science-Bentham Science* vol. 12, issue no. 1, 2019, p.p: 128-134 (Scopus Indexed).
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 43. Mahendra Pratap Yadav, Harish Chandra Akarte, Dharmendra Kumar Yadav "Container Elasticity: Based on Response Time using Docker" accepted in *Recent Advances in Computer Science and Communications*. (Formerly: *Recent Patents on Computer Science*) publisher Benthamscience (Index-Scopus)-2020.
 44. Mahendra Pratap Yadav, Akanksha Kunwar, Ram Chandra Bhushan, Dharmendra Kumar Yadav "Web Server Workload Prediction using Time Series Model" accepted in *International Journal of Advanced Intelligence Paradigms* publisher Inderscience (Scopus)-2020.
 45. Ram Chandra Bhushan* and Dharmendra K. Yadav, "Formal Specification and Verification of

- Data Separation for Muen Separation Kernel”, Recent Advances in Computer Science and Communications (2020) 13: 1. <https://doi.org/10.2174/2666255813999200831103502>.
46. Bhushan, Ram Chandra, and Dharmendra K. Yadav. "Verification of Virtual Machine Architecture in a Hypervisor through Model Checking, " *Procedia Computer Science* 167 (2020): 67-74.
 47. Jalal, Sunita, Dharmendra Kumar Yadav, and Chetan Singh Negi. "Web service discovery with incorporation of web services clustering, " *International Journal of Computers and Applications* (2019): 1-12. (Scopus).
 48. Brijesh Pandey, S. S. Soam, Dharmendra Kr. Yadav "Modeling The Framework for Evaluating the NonFunctional Requirements Affecting Application Efficacy in Cloud Computing Domain" in *International Journal of Engineering and Advanced Technology (IJEAT)* ISSN: 2249 – 8958, Volume-9 Issue-1, October 2019.
 49. Brijesh Pandey, Dharmendra Kr. Yadav, S. S. Soam "Application Portability Pertaining TOSCA in Cloud Computing Environment" *International Journal of Advanced Trends in Computer Science and Engineering* Volume 8, No.5, September - October 2019.
 50. Brijesh Pandey, S. S. Soam, Dharmendra Kr. Yadav "Achieving Application Portability In Cloud Computing Environment" in *International Journal of Innovative Technology and Exploring Engineering (IJITEE)* ISSN: 2278-3075, Volume-8 Issue-12, October, 2019.
 51. Mishra A K, Yadav D K, Kumar Y, Jain N. Improving reliability and reducing cost of task execution on preemptible VM instances using machine learning approach. *The Journal of Supercomputing*. 2019 Apr 1;75(4):2149-80. (SCI).
 52. Abdul Aleem, M M Gore, "The choice is yours: The effects of optional questions in engineering examinations", *Computer Applications in Engineering Education*, 07/2019, Published By Wiley Publications. (SCI, IF = 0.856)
 53. Vijay Kumar Dwivedi, M M Gore, "A Historical Data based Ensemble System for Efficient Stock Price Prediction", *Recent Patents in Computer Science*, vol.13, pp.1-31, 02/2020, Published By Bentham Science Publishers. (Scopus)
 54. Navjot Singh, "Saliency Threshold: a novel saliency detection model using Ising's theory on Ferromagnetism (STIF)," *Multimedia Systems*, doi: 10.1007/s00530-020-00650-z, 2020.SCI, Impact Factor – 1.956.
 55. Shiv Naresh Shivhare, Nitin Kumar and Navjot Singh, "A Hybrid of Active Contour Model and Convex Hull for Automated Brain Tumor Segmentation in Multimodal MRI," *Multimedia Tools and Applications*, 78, 34207–34229, 2019. SCI Expanded, Impact Factor – 2.101.

Publication in International Conferences

1. Biru Rajak, Aparna Tripathi and Dharmender Singh Kushwaha, "A Real Time Road Congestion based Hybrid Approach for finding the Optimized Route", 4th International Conference on Microelectronics, Computing & Communication Systems, MCCS 2019, IETE & ISVE Ranchi, Jharkhand, India, 05/2019,
2. Shashwati Banerjea, Mayank Pandey and M. M. Gore, "Large Scale P2P Cloud of Underutilized Computing Resources for Providing MapReduce as a Service", *Proceedings of the 2nd International Conference on Data Engineering and Communication Technology*, pp.pp. 211-21, 05/2019, Published by Springer, Singapore.
3. Swati Jain, Suraj Prakash Narayan, Rupesh Kumar Dewang, Utkarsh Bhartiya, Nalini Meena and Varun Kumar, "A Machine Learning based Depression Analysis and Suicidal Ideation Detection System using Questionnaires and Twitter", *Students Conference on Engineering and Systems (SCES2019)*, MNNIT Allahabad, 06/2019, Published by IEEE.
4. Janpreet Singh, Harjeet Singh, D. K. Singh, "A Novel Approach based on Gesture Recognition through Video Capturing for Sign Language", *2nd ICICICT – 2019*, VJEC Kannur, Kerala (INDIA), 07/2019, Published by IEEE.
5. Saima Naz, D. K. Singh, "Review of Machine Learning Methods for Windows Malware Detection", *10th ICCCNT – 2019*, IIT Kanpur, Kanpur (India), 07/2019, Published by IEEE.

6. Babu Pallam and M M Gore, "Boomerang: Blockchain-based Freelance Paradigm on Hyperledger", The 10th International Conference on Computing, Communication And Networking Technologies, IIT Kanpur, 07/2019,
7. Prince Rajpoot & Pragya Dwivedi, "Power Balanced Efficient Clustering Algorithm for WSN", 2019 International Conference on Communication and Electronics Systems (ICCES), India, pp.585-589, 07/2019, Published by IEEE.
8. Kriti Dangi, Manish Singh Kushwaha, and Rajitha Bakthula, "An Intelligent Traffic Light Control System based on Density of Traffic", International Conference on Emerging Technology in Modeling and Graphics (IEM Graph'18), Emerging Technology in Modelling and Graphics, pp.741-752, 07/2019, Published by Springer, Singapore.
9. Anushka Srivastava, Shobhit Kumar Awasthi, Saqib Javed, Shubham Gautam, Naman Kishore, Rajitha Bakthula, "Seeded One Time Pad for Security of Medical Images in Health Information", 2018 4th International Conference on Computing Communication and Automation (ICCCA), 07/2019,
10. Alok Kumar, and Anoj Kumar, "A brief literature on optimization techniques and their applications", 7th International Conference on Innovations in Computer Science and Engineering (ICICSE) 2019, Guru Nanak Institutions, India, 08/2019, Published by Springer.
11. Ariba Tariq, Rajitha Bakthula, "A New (3, 3) Secret Sharing Cryptography Scheme for Efficient Secret Data Transmission", International Conference on Inventive Computation Technologies, pp.209-217, 08/2019, Published by Springer, Cham.
12. Pankaj Joshi, Sachin Kumar, Divya Kumar and Anil Kumar Singh, "A Blockchain Based Framework for Fraud Detection", 2019 Conference on Next Generation Computing Applications (Next Comp), Republic of Mauritius, pp.1460-1466, 09/2019, Published By 2019 Conference on Next Generation Computing Applications (Next Comp).
13. Naveen Kumar Gupta, Rama Shankar Yadav, Rajendra Kumar Nagaria, "Energy Efficient Angle based Route Selection in 3D Wireless Sensor Networks", SICE Annual Conference 2019, Hiroshima, Japan, pp.388-393, 09/2019,
14. P. Joshi, S. Kumar, Divya Kumar and A K Singh, "A Blockchain Based Framework for Fraud Detection", Int. Conference on Next Generation Computing Applications (Next Comp), Mauritius, 09/2019, Published by IEEE.
15. Sathish Kumar, Mukesh A Zaveri, Saurabh Kumar, and Meghavi Choksi, "Geo-fencing Technique in Unmanned Aerial Vehicles for Post Disaster Management in the Internet of Things", IEEE Second International Conference on Advanced Computational and Communication Paradigms (ICACCP-2019), Sikkim, pp.1-6, 10/2019, Published by IEEE.
16. Madhurendra Purbay and Divya Kumar, "Split Behavior of Supervised Machine Learning Algorithms for Phishing URL Detection", VCAS 2019 MNNIT Allahabad, (Springer), October 2019, MNNIT Allahabad, India, 10/2019, Published by Springer LNEE.
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19. Eva Patel and Dharmender Singh Kushwaha, "Clustering Cloud Workloads: KMeans vs Gaussian Mixture Model", 3rd International Conference on Computing & Network Communications (CoCoNet'2019) (Scopus Indexed), IIITM-K, Technopark/Technocity Campuses, Trivandrum, Kerala, India, 12/2019, Published by Elsevier.
20. Biru Rajak, Sharbani Mallicki, and Dharmender Singh Kushwaha, "Creating a Dynamic Real Time Green Corridor and Assessing its Impact on Normal Traffic Flow", 3rd International Conference on Computing & Network

- Communications (CoCoNet'2019) (Scopus Indexed), IIITM-K, Technopark/ Technocity Campuses, Trivandrum, Kerala, India, 12/2019, Published by Elsevier.
21. Lekhraj and Anoj Kumar, "Multi-Attribute Decision Making Based Cluster Head Selection in Wireless Sensor Network 2019", 5th International Conference on Industrial Engineering (ICIE), SVNIT Surat, 12/2019.
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 23. Amrendra Singh Yadav, Kumari Khushboo, Vikalp Kumar Singh and Dharmender Singh Kushwaha, "Increasing Efficiency of Sensor Nodes by Clustering in Section Based Hybrid Routing Protocol with Artificial Bee Colony", 3rd International Conference on Computing & Network Communications (CoCoNet'2019) (Scopus Indexed), IIITM-K, Technopark/ Technocity Campuses, Trivandrum, Kerala, India, 12/2019, Published by Elsevier.
 24. Devendra Sharma and Anoj Kumar, "Levels and Classification Techniques for Sentiment Analysis: A Review", First International Conference on "Advanced Communication & Computational Technology (ICACCT-2019), NIT Kurukshetra, 12/2019, Published by Springer.
 25. Neelam Dwivedi, Dushyant Kumar Singh and Dharmender Singh Kushwaha, "Weapon Classification using Deep Convolutional Neural Network", 3rd IEEE Conference on Information and Communication Technology, IIIT Allahabad, Prayagraj, Uttar Pradesh, India, 12/2019, Published by IEEE.
 26. Aquib Ansari, D. K. Singh, "An Approach for Human Machine Interaction using Dynamic Hand Gesture Recognition", CICT-2019, IIIT Allahabad, Prayagraj (India), 12/2019, Published by IEEE.
 27. Neelam Dwivedi, Dushyant Kumar Singh and Dharmender Singh Kushwaha, "An Approach for Unattended Object Detection through Contour Formation using Background Subtraction", 3rd International Conference on Computing & Network Communications (CoCoNet'2019) (Scopus Indexed), IIITM-K, Technopark/ Technocity Campuses, Trivandrum, Kerala, India, 12/2019, Published by Elsevier.
 28. Alok Kumar, Avjeetsingh, Lekhraj and Anoj Kumar, "Weighted mean variant with exponential decay function of Grey Wolf Optimizer on Applications of Classification and Function Approximation Dataset", 19th International Conference on Hybrid Intelligent System (HIS), VIT Bhopal, 12/2019, Published by Springer.
 29. Manoj Wairya, Anjali Shah, G P Sahu, "Mobile Learning Adoption: An Empirical study", Confulence 2020, Amity Noida, pp.757 -761, 01/2020, Published by IEEE.
 30. Rohit Kumar Sachan and Dharmender Singh Kushwaha, "Anti-Predatory NIA based Approach for Optimizing Basic Cocomo Model", 10th International Conference on the Cloud Computing, Data Science & Engineering, (Scopus Indexed), Amity University, Noida, Uttar Pradesh, India, 01/2020, Published by IEEE.
 31. Amritesh Kumar, Amrendra Singh Yadav and Dharmender Singh Kushwaha, "VChain: Efficient Blockchain based Vehicular Communication Protocol", 10th International Conference on the Cloud Computing, Data Science & Engineering, Amity University, Noida, Uttar Pradesh, India, 01/2020, Published by IEEE.
 32. Debjani Ghosh, Satya Sankalp Gautam, Mayank Pandey, "An Extension For PRISM Model Checker To Reduce Computation Time For Steady State Probability Analysis", 2020 International Conference on Innovative Trends in Information Technology (ICITIIT), IIIT Kottayam, pp.1-6, 02/2020, Published by IEEE.
 33. Rishabh Jain, Akhilesh Kumar, Shashwati Banerjee, and Mayank Pandey, "Towards Software-Defined Peer-to-Peer Content Delivery Network for Adaptive Video Streaming", International Conference on Innovative Trends and Information Technology (ICITIIT-2020), IIIT-Kottayam, 02/2020, Published by IEEE.
 34. Singh, A., Kumar, A., & Kumar, A., "An Enhanced Differential Evolution Algorithm with New Environmental-Based Parameters for Solving Optimization Problems", International

- Conference on Advanced Machine Learning Technologies and Applications pp. 119-129. Springer, Jaipur, India, pp.119-129, 02/2020, Published by Springer.
35. Chakrapani, Vibhav Prakash Singh and Dhurba Jyoti Kalita, "Chronic Kidney Disease Detection Using Random Forests and Eigenvectors Based Feature Selection", AISCC-2020, MNIT Jaipur (Accepted in March 2020), pp.1-6, 03/2020, Published by Springer.
 36. Abhishek Kumar, Chakrapani Singh, Dhruva Jyoti Kalita and Vibhav Prakash Singh, "A Modern Pothole Detection technique using Deep Learning", IDEA2K20 , RGPV Bhopal (Accepted in March 2020), pp.1-5 , 03/2020, Published by IEEE.
 37. Dhruva Jyoti Kalita, Vibhav Prakash Singh, Vinay Kumar, "SVM Hyper-Parameters Optimization using Multi-PSO for Intrusion Detection", Social Networking and Computational Intelligence, RGPV Bhopal, pp. 227-241, 03/2020, Published by Springer, Singapore.
 38. Dhruva Jyoti Kalita, Vibhav Prakash Singh, Vinay Kumar, "A Survey on SVM Hyper-Parameters Optimization Techniques", Social Networking and Computational Intelligence, RGPV Bhopal, pp.243-256, 03/2020, Published by Springer, Singapore.
 39. Tribhuvan Singh, Krishn Kumar Mishra, Ranvijay, "Data Clustering using Environmental Adaptation Method," in 19th International Conference on Hybrid Intelligent Systems (HIS - 2019) Status: Accepted and Presented.
 40. Tribhuvan Singh, Naveen Kumar, Ranvijay, Krishna Kumar Mishra "An Empirical Study of Operators of Genetic Algorithm: A Review" in International Conference on Engineering, Mathematical and Computational Intelligence (ICEMCI 2019)", Status: Accepted and Presented.
 41. Babu Pallam and M M Gore, "Boomerang: Blockchain-based Freelance Paradigm on Hyperledger", The 10th International Conference on Computing, Communication and Networking Technologies, IIT Kanpur, 07/2019.
 42. Deepanshu Gupta, Dhruv Sharma, G. Sree Deepthi, Yogeshwar Patel, PawanSubedi, Abdul Aleem and M M Gore, "TOO-MUCH: Testing Online Over MNNIT Unified Coding Hub", 1st International Conference on Computing Applications in Electrical and Electronics Engineering, REC Sonbhadra, 08/2019.
 43. H. Malireddi, Rajitha. B. and K. Parwani, "Pedestrian Detection using Fuzzy Clustering and Histogram of Oriented Gradients," 2019 IEEE International WIE Conference on Electrical and Computer Engineering (WIECON-ECE), Bangalore, India, 2019, pp. 1-4, doi: 10.1109/WIECON-ECE48653.2019.9019930.
 44. A. Khanna, B. A. Manoj, Y. T., G. M. Parihar, R. Maurya and Rajitha. B., "Deep Streak: Automating Car Racing Games for Self Driving using Artificial Intelligence," 2019 Third International conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC), Palladam, India, 2019, pp. 420-425, doi: 10.1109/I-SMAC47947.2019.9032527.

Reviewer in International Journals and Conferences

Sl. No.	Faculty Name	Journal Name
1.	Dr. Ashish Kumar Maurya	Physica A: Statistical Mechanics and its Applications IEEE Access ETRI Journal 2019 International Conference on Cutting-edge Technologies in Engineering (Icon-CuTE-2019) 9 th IDRBT Doctoral Colloquium (IDC 2019) Journal of Supercomputing
2.	Dr. D. S. Kushawaha	International Journal of Software Engineering and Knowledge Engineering, 2006 European Computing Conference, Athens, Greece, 2007 IEEE Transaction on Systems, Man and Cybernetics, Part B

- Journal of Engineering & Computer Innovations, Academy Publishers, 2010
CoMSIS (Computer Science & Information System) Journal, 2010
International Conference on Computer & Communication Technology, ICCCT 2010
Journal of Convergence of Information Technology, JCIT 2010
International Conference on Communication, Computing & Security, ICCCS 2011, Orissa.
PC member Cloud Computing 2011, Lisbon, Portugal
Journal of Digital Content Technology and its Applications, AISS
Publication Chair & Session Chair International Conference on Computer & Communication Technology, ICCCT 2011
International Conference on Computer & Comm Technology, 2011
1st International Conference on Cloud and Green Computing (CGC2011)
PC member Cloud Computing 2012, Nice France
Session Chair, 1st IEEE Students' Conference on Engineering and Systems (SCES 2013), April 2012
PC member for CGC2011 (Cloud and Green Computing), CGC2012 in Xiangtan, China during 1 - 3 Nov. 2012
Session Chair, 2nd IEEE Students' Conference on Engineering and Systems (SCES 2013), April 12-14, 2013
International Conference on Signal Processing and Integrated Networks (SPIN)
Technical Program Committee of ICRTCSE 2014 (International Conference on Recent Trends in Computer Science and Engineering) Neural Networks
International Conference on Computing & Network Communications (CoCoNet)
3. Dr. Dinesh Singh International Journal of Computational Vision and Robotics
Advances in Mechanical, Industrial, Automation and Management Systems (AMIAMS - 2017)
4. Dr. Dushyant Kumar Singh International Journal of Computational Vision and Robotics
ICACCI 2016
2nd IEEE CGCVIS
IESC 2017
ICCCA-2017
CICT-2017
IDEA-2K17
SIN 2017
CMST-2018
Search Results Web result with site links International Journal of Information Security and Privacy
Recent Patents on Computer Science journal
IET Image Processing
5. Dr. J. Sathish Kumar 6th Students' Conference on Engineering & Systems (SCES-2020)
Computer Journal
SADHANA-Journal of the Indian Academy of Sciences
IEEE Access
6. Dr. Krishna Kumar Mishra Neural Computing and applications

7. Dr. Navjot Singh Applied Intelligence
IEEE Transaction on Cybernetics
Applied Soft Computing
The Visual Computer
8. Dr. Rupesh Kumar Dewang International Conference on Computer, Communication and Computational Sciences.
Internet of Things for Technology Development.
International Conference on Smart Innovations in Communications and Computational Sciences.
International Conference on Data, Engineering and Applications.
Conference on Information and Communication Technology.
Advancement in Computer Engineering and Information Technology (ACEIT-2018).
International Conference on Emerging Trends in Communication, Computing and Electronics (IC3E-2018).
National Academy Science Letters.
Online Conference on Green Communication, Network and Systems.
Advancement in Computer Engineering and Information Technology.
IEEE Access.
Second International Conference on Smart Innovations in Communications and Computational Sciences.
Distributed and Parallel Databases.
International Conference on Vlsi, Communication and Signal Processing.
Second International Conference on Advanced Informatics for Computing Research.
Knowledge Discovery from Data.
International Conference on Social Networking and Computational Intelligence (Sci-2018).
National Academy Science Letters
The IEEE Conference on Information and Communication Technology Mining Intelligence and Knowledge Exploration
Expert systems with Applications
9. Dr. Shailendra Shukla PDGC.
Wireless Personal Networks.
10. Dr. Suneeta Agarwal Neuro Computing
11. Dr. Vibhav Prakash Singh IEEE Transactions on Industrial Electronics
IDRBT Doctoral Colloquium 2019
IETE Journal of Research
IEEE Intelligent System
Sadhana
ICICCT2020
IEEE Transactions on Neural Networks and Learning Systems
CMBP
IEEE Transactions on Computational Social Systems-Review
Measurement
International Journal of Imaging Systems and Technology
IEEE Access
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Book(s)/ Book Chapter Authored

Sl. No.	Faculty Name (Author/ Co-author)	Book	Book Chapter	Publisher
1.	Shabir Ali, Shashwati Banerjea, Mayank P	Towards DHT-Based P2P Resource Sharing Over Hybrid Infrastructure of Wireless Mesh Network and Mobil	LNNS	Springer
2.	Shabir Ali, S. Banerjea & Mayank Pandey		Lecture Notes in Networks and Systems book series	Springer
3.	Krishna Vijay Singh, Mayank Pandey	SDN-Based Fast Handover Approach to Improve the QoS of Video Streaming over Wi-Fi Networks	LNNS	Springer
4.	S Saha & S. Shukla	Advanced Data Structures: Theory and Applications		Chapman and Hall/CRC Springer
5.	Lekhraj and Anoj Kumar	E-book	Multi-attribute decision making based cluster head selection in WSN	Springer
6.	Alok Kumar, Anoj Kumar	E-book	Weighted Mean Variant with Exponential Decay Function of Grey Wolf Optimizer on Applications of Classification and Function Approximation Dataset	Springer
7.	Rohit Kumar Sachan and Dharmender Singh	Advances in Intelligent Systems and Computing	Warehouse Setup Problem: Truck Transportation Cost Model	Springer
8.	Gaurav Baranwal, Dinesh Kumar, Zahid Raz		Feasibility of Provider's Coalition in Reverse Auction based Cloud Market	IGI Global
9.	Avjeet Singh, Anoj Kumar	E-book (Advanced Machine Learning Technologies and Applications)	An Enhanced Differential Evolution Algorithm with New Environmental-Based Parameters for Solving Optimization Problems	Springer

Invited Lectures Delivered

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| <ol style="list-style-type: none"> Lecture delivered by Dr. Dinesh Singh at TEQIP -III sponsored one week workshop, IET, Faizabad (U.P.) on 01/04/2019 entitled 5G and Industrial IoT. Lecture delivered by Dr. Navjot Singh at Workshop on Machine Learning and Computer Vision using MATLAB, Mahatma Gandhi Central University, Bihar on 03/04/2019 entitled Machine Learning and Computer Vision. Lecture delivered by Dr. Dinesh Kumar at Short Term Training Program on "Linux Usage, | <ol style="list-style-type: none"> Administration and Open Source Software", Dharmsinh Desia University Nadiad on 05/04/2019 entitled Simulate Cloud with Cloud Sim. Lecture delivered by Dr. Rupesh Kumar Dewang at Summer Training Program of Learning Python Applications Development for Industrial Projects (LPADIP-2019), CSED, MNNIT Allahabad on 15/06/2019 entitled Basic of Python and Machine Learning. Lecture delivered by Dr. Shashank Srivastava at Faculty Development program (FDP) on |
|---|--|

- "Emerging Trends in Networking, Centre for Advanced Studies, AKTU, Lucknow on 24/06/2019 entitled WLAN Security: Attacks and Security Protocols".
6. Lecture delivered by Dr. Dushyant Kumar Singh at Workshop on Machine Learning and Internet of Things, RML Avadh University, Faizabad on 27/06/2019 entitled Machine Vision.
 7. Lecture delivered by Dr. Dushyant Kumar Singh at Workshop on Applications of Machine Learning in Signal, Image & Computer Vision, BTKIT Dwarahat, Almora on 10/07/2019 entitled Object Detection Techniques.
 8. Lecture delivered by Dr. Shashank Srivastava at one week short term course on Pattern recognition and Cyber security applications, NIT Kurukshetra on 05/09/2019 entitled WLAN Security attacks and security protocols".
 9. Lecture delivered by Dr. Shashank Srivastava at One week STC on "Pattern Recognition and Cyber Security Applications, NIT Kurukshetra on 07/09/2019 entitled WLAN Security: Attacks & Security Protocols.
 10. Lecture delivered by Dr. Dinesh Singh at TEQIP –III sponsored one week workshop, Rajkiya Engineering College, Banda (U.P.), on 13/09/2019 entitled IoT and its Applications.
 11. Lecture delivered by Dr. Anil Kumar Singh at AICTE Training and Learning (ATAL) Academy, Jaipur, ATAL Academy MNNIT Allahabad on 16/09/2019 entitled Introduction to Blockchain.
 12. Lecture delivered by Dr. Mayank Pandey at Expert talk, IIT, Mandi on 17/09/2019 entitled SDN challenges and opportunities: the road ahead.
 13. Lecture delivered by Dr. Dinesh Kumar at One Week Lecture Series on "AI, IoT, Cloud Computing, Machine Learning and Deep Learning", Rajkiya Engineering College Ambedkar Nagar on 21/09/2019 entitled Cloud Computing.
 14. Lecture delivered by Dr. Dushyant Kumar Singh at STTP, REC Bijnor on 03/10/2019 entitled IoT in Computer Vision.
 15. Lecture delivered by Dr. Dushyant Kumar Singh at STTP, REC Bijnor on 04/10/2019 entitled Algorithm Analysis.
 16. Lecture delivered by Dr. Dushyant Kumar Singh at STTP, LNCTS Bhopal on 16/10/2019 entitled Deep Learning for Vision.
 17. Lecture delivered by Dr. J. Sathish Kumar at Data Analytics and IoT (DAIoT 2019), MMMUT, Gorakpur on 05/11/2019 entitled Hands on and Demonstration of IoT Tool: Contiki and Cooja.
 18. Lecture delivered by Dr. Ashish Kumar Maurya at Icon-CuTE-2019, SRMU Lucknow on 15/11/2019 entitled Task Scheduling in Distributed Computing.
 19. Lecture delivered by Dr. Anil Kumar Singh at AICTE Training and Learning (ATAL) Academy, Jaipur on Artificial Intelligence, ATAL Academy MNNIT Allahabad on 12/12/2019 entitled Machine Learning.
 20. Lecture delivered by Dr. Ashish Kumar Maurya at Workshop on Internet of Things and Aerial Mesh Networks-2019, IIIT Allahabad on 19/12/2019 entitled Cloud Computing for Internet of Things.
 21. Lecture delivered by Dr. Dushyant Kumar Singh at Seminar, Punjab University on 11/03/2020 entitled Assistive Technologies for Elderly Peoples and Persons with Disabilities.
 22. Lecture delivered by Dr. Anil Kumar Singh at Introduction to MATLAB, PSCAD and Late X for Researchers (2019), National Institute of Technology, Srinagar on 06/2019 entitled Introduction to MATLAB, PSCAD and LateX for Researchers.
 23. Lecture delivered by Dr. Anil Kumar Singh at Workshop on Data Analytics & its Implementation (2019), North Central Railways on 07/2019 entitled Data Analytics & its Implementation.
 24. Lecture delivered by Dr. Rupesh Kumar Dewang at TEQIP-III Sponsored one week Workshop on "Machine Learning & IoT" by Department of Information Technology of Rajkiya Engineering College Banda (U.P.), entitled Machine Learning on 13/09/2019.

25. Lecture delivered by Dr. Rupesh Kumar Dewang at Annual ISTE M.P State Convention with National Conference on "Recent Advancements in Energy, Sciences & Technology (NCRAEST-19), on 09/11/2019 entitled Sentiment Mining and Its Application.
26. Dr. Navjot Singh delivered expert lectures on "Search Algorithms" and "Heuristic Search and Game Search", in ATAL sponsored programme on "Artificial Intelligence" from December 10-14, 2019 at MNNIT, Allahabad.
27. Dr. Navjot Singh delivered an expert lecture on "Feature Extraction and Selection for Image Forensics", in a national workshop on "Image Forensic using Machine Learning" on August 30, 2019 in the Department of Information Technology, REC Ambedkar Nagar.
28. Dr. Navjot Singh delivered an expert lecture on "Machine Learning and Deep Learning", in a one week lecture series on "Artificial Intelligence, IoT, Cloud Computing, Machine Learning and Deep Learning" on September 21, 2019 in the Department of Information Technology, REC Ambedkar Nagar.
29. Prof. R. S. Yadav has given Keynote address on Network Security: An Overview in International Conference on Networks and Cryptology (NetCrypt-2019), 14-06-2019 at Jawaharlal Nehru University, New Delhi-110067,
30. Prof. R. S. Yadav delivered an expert Talk on Personality Development: A Scientific Approach on dated 01/06/2019 at C.S.E.D., National Institute of Technology Hamirpur-176005, Himachal Pradesh, India.

Events Organized by Department

Sl. No.	Name	Title	From	To
1.	Workshop	Workshop-cum-Training Program-2019 on Recent Trends in Computer Science, CSED, MNNIT Allahabad	10.06.2019	05.07.2019
2.	Workshop	Data Driven Computing and Networking (DDCN-2019), CSED, MNNIT	10.06.2019	05.07.2019
3.	Workshop	Workshop-cum-Training Program (WCTP), MNNIT Allahabad	10.06.2019	05.07.2019
4.	Summer Program	Learning python application development for Industrial projects(LPADIP)-2019, MNNIT Allahabad	10.06.2019	06.07.2019
5.	Summer Training	Learning Python Applications Development for Industrial Projects (LPADIP-2019), CSED MNNIT Allahabad	10.06.2019	06.07.2019
6.	Summer Training Program	Learning python applications Development For Industrial Projects, CSED, MNNIT	10.06.2019	06.07.2019
7.	Workshop	Hands Training on XILINX ZYNQ SOC, MNNIT Allahabad	18.09.2019	19.09.2019
8.	Workshop	Deep learning, MNNIT Allahabad	21.09.2019	22.09.2019

Events Attended

1. Dr. J. Sathish Kumar attended Workshop on Enabling Internet of Things with Cloud and data processing and resource optimization in IoT (CRIoT 2019) at SVNIT, Surat during 10/06/2019 to 14/06/2019.
2. Dr. Anil Kumar Singh attended Workshop on Introduction to Matlab, PSCAD and Late X for Researchers (2019) at National Institute of Technology during 24/06/2019 to 28/06/2019.
3. Dr. Anil Kumar Singh attended International conference on Promotion Of Artificial Intelligence in Education Sector at IIT Delhi on 04/07/2019.
4. Dr. Anil Kumar Singh attended Innovation Symposium 2019 on HPC Innovation Symposium 2019 at Panchkula during 11/07/2019 to 13/07/2019.
5. Dr. Anil Kumar Singh attended International Conference on NEXTCOMP 2nd International conference on Next Generation Computing

- Applications at Mauritius during 19/09/2019 to 21/09/2019.
6. Dr. Anil Kumar Singh attended Workshop on 36th Hindi Sammelan and Workshop at Gangtok (Sikkim) during 12/11/2019 to 14/11/2019.
 7. Dr. Anoj Kumar attended Faculty Development Program on FDP on Quantum Computing and Security at IIT Roorkee during 24/11/2019 to 27/11/2019.
 8. Dr. Dinesh Singh attended International conference on 2nd IEEE International Conference on Data, Engineering and Applications 2020 at RGPV, Bhopal during 28/02/2020 to 29/02/2020.
 9. Dr. Ropesh Kumar Dewang attended International Conference on Data, Engineering & Application (IDEA-2K20), Bhopal during 28/02/2020 to 29/02/2020.

Research Projects Completed/Ongoing

Sl. No.	Principal Investigator/ Co investigator(s)	Project Title	Funding Agency	Amount (INR)	Duration
1.	Prof. R.S. Yadav, (PI) Dr. Anil Kumar Singh (Co-PI)	Information Security Education and Awareness [ISEA] Project (Phase II)	DeitY, MHRD	36.06 lakhs	Ongoing
2.	Dr. Navjot Singh (Co-PI)	Secret Sharing Scheme based technology for multimedia security over cloud	DST	15.14 Lakhs	Ongoing
3.	Dr. Mayank Pandey (Co-PI)	Startup Centre	DST and MHRD	1.5 Crore	Ongoing
4.	Dr. Shashank Srivastava (PI)	Intelligent detection and mitigation of DDoS attack in SDN	DST	25.00 Lakhs	Ongoing
5.	Dr. Vibhav Prakash Singh (Co-PI)	Content-Based Image Retrieval System Assisted by Mammogram Classification for the Diagnosis of Breast Cancer	MHRD/ NPIU	73.00 Lakhs	Ongoing
6.	Dr. Navjot Singh (Co-PI)	IoT based real time and effective traffic signal scheduling for smart city	DST	13.70 Lakhs	Ongoing
7.	Dr. Anil Kumar Singh (Co-PI)	Crowd Simulation Software	Indian Railways	18.00 Lakhs	Completed on 05/2019
8.	Dr. D. K. Yadav (PI)	Visvesvaraya PhD Scheme For Electronics and IT	Deity, Govt. of India	652.41 Lakhs	Ongoing
9.	Dr. Ranvijay (Co-PI)	Visvesvaraya PhD Scheme For Electronics and IT	Deity, Govt. of India	652.41 Lakhs	Ongoing
10.	Dr. Divya Kumar (Co-PI)	Design and Development of IoT Based Smart Farming System	NPIU	8.89 Lakhs	Ongoing

Other Relevant Information

1. Dr. Rupesh Kumar Dewang received best paper award "A Machine Learning based Depression Analysis and Suicidal Ideation Detection System using Questionnaires and Twitter", in Students Conference on Engineering and Systems (SCES 2019), MNNIT Allahabad on 06/2019.
2. Dr. Rupesh Kumar Dewang received Chair the Special Session on Computational Intelligence for Real World Applications in Engineering & Technology at 19th International Conference on Hybrid Intelligent System December on 12/2019.
3. Dr. Navjot Singh was a Session Chair in International Conference on Machine Intelligence and Signal Processing (MISP-2019) held during September 07-10, 2019 at IIIT Allahabad.

Patent Published

1. Dr. Rupesh Kumar Dewang published a patent: Application no.201921035264, Entitled System and Method for Real-Time Assessment and Guidance on Exercise Posture, Applied on 02/09/2019.
2. Dr. Shashank Srivastava published a patent: Application No.201911033264, Entitled: Artificial Intelligence Based Detection of Violence through Surveillance Camera, Applied on 06/09/2019 in Official Journal of the Patent Office.

10.7 DEPARTMENT OF ELECTRICAL ENGINEERING

Vision

To produce globally competitive technical manpower with sound knowledge of theory and practice, with a commitment to serve the society and to foster cutting edge research in Electrical Engineering pertaining to the problems currently faced by the country and the world.

Mission

Development of relevant content for quality teaching (b) Development of state of art lab facilities for research and consultancy (c) Development of infrastructure and procurement of cutting edge tools/ equipment (d) Improving symbiotic relationship with Industry for collaborative research and resource generation.

List of Laboratories:

1. Power Electronics Laboratory.
2. Simulation Laboratory.
3. Measurement and Instrumentation Laboratory.
4. Virtual Instrumentation Laboratory.
5. CRU Laboratory.
6. Control Laboratory.
7. Electrical Machines and Power Systems Laboratory.
8. High Voltage Laboratory.

Courses run by Department:

1. B.Tech. in Electrical Engineering.
2. M.Tech. in Electrical Engineering with specialization in Control & Instrumentation.
3. M.Tech. in Electrical Engineering with specialization in Power System.
4. M.Tech. in Electrical Engineering with specialization in Power Electronics and Drives.

Courses in which students were admitted during 04/2019 – 03/2020 :

1. B.Tech in Electrical Engineering.
2. M.Tech. in Electrical Engineering with specialization in Control & Instrumentation.
3. M.Tech. in Electrical Engineering with specialization in Power System.
4. M.Tech. in Electrical Engineering with specialization in Power Electronics and Drives.

List of Ph.D. Thesis Completed

Sl.No.	Name of Student	Reg. No.	Thesis Title	Thesis Supervisor(s)
1.	Shri G. Indira Kishore	2014REE05	Novel AC-DC and DC-DC Non-Isolated Converter Topologies for High Voltage Gain Applications	Prof. R. K. Tripathi
2.	Shri Alok Agrawal	2015REE01	Power Co-ordination and Converter Control in Distributed Energy Resources Integrated Hybrid DC/AC Microgrid Systems	Prof. Rajesh Gupta
3.	Shri Akhilesh Kumar Gupta	2013REE52	Optimized Power Harvesting and Controller Design for Power Electronics Converters used in Wind Energy Conversion	Dr. Deepak Kumar Prof. Paulson Samuel
4.	Shri Bheem Sonkar	2014REE52	Internal Model Control based Load Frequency Control of Power System using Model Reduction	Dr. Deepak Kumar Prof. Paulson Samuel
5.	Shri Omkar Yadav	2014REE55	Active power regulation in non-	Dr. Richa Negi

			synchronous grid with HVDC inter-connection	Dr. Nand Kishor
6.	Ms. Shweta	2015REE51	Study of power system stability & protection using wide area signals	Dr. Nand Kishor Dr. S. R. Mohanty
7.	Shri Rupal Singh H	2015REE52	Disturbance detection, classification and control of DG power system	Dr. S. R. Mohanty & Dr. Nand Kishor
8.	Shri Sanjeev Sehgal	2012REE03	Economic operation of Indian Railways Freight System Through GTKM Forecasting	Prof. R. K. Singh Dr. Navneet K. Singh
9.	Shri Rajesh Panda	16-3-03-102	Risk Assessment Framework and Security Constrained Optimal Bidding Strategies for Renewable Integrated Double Auctioned Competitive Power Markets	Dr. Prashant Kumar Tiwari

Publication in International Journals

1. Jeetendra Prasad and Ramesh Kumar Tripathi, "Voltage control of sediment microbial fuel cell to power the AC load," *Journal of Power Sources*, 450C (2020) 227721, Jan 2020. ISSN 0378-7753. (SCI)
2. Umesh Kumar Soni, Maloth Naresh and Ramesh Kumar Tripathi, "FPGA Based Speed Control and Back EMF Extraction from Line Voltages using IIR digital Filters for BLDCM," *Advanced in Power and Control Engineering, Lecture Notes in Electrical Engineering*, Springer, Vol. 609, pp. 41-62, Jan. 2020. (Scopus)
3. Aradhna Patel and Shubhi Purwar, "Switching Attacks on Smart Grid using Nonlinear Sliding Surface", *IET Cyber-Physical Systems: Theory & Applications*, Vol. 4, Issue. 4, pp. 382-392, 2019.
4. S. Singh and S. Purwar, "Enhanced Composite Nonlinear Control Technique using Adaptive Control for Nonlinear Delayed Systems", *Recent Advances in Electrical & Electronic Engineering* (2019).
5. Sheetla Prasad, Shubhi Purwar, and Nand Kishor, "Load Frequency Regulation using Observer based Non-linear Sliding Mode Control", *International Journal of Electrical Power & Energy Systems*, 178-193, 2019.
6. Bhanu Pratap and Shubhi Purwar, *Real-Time Implementation of Nonlinear State and Disturbance Observer Based Controller for Twin Rotor Control System*, *International Journal of Automation and Control*, 2019.
7. P. C. D. Goud and Rajesh Gupta, "Dual Mode Control of Multi-functional Converter in Solar PV System for Small Off-grid Applications", *IET Power Electronics*, vol.12, Issue 11, pp.2851–28, 09/2019, Published by IET. (SCI)
8. V. Karthikeyan and Rajesh Gupta, "Distributed power flow control using cascaded multilevel isolated bidirectional DC-DC converter with multi-phase shift modulation", *IET Power Electronics*, vol.12, Issue 11, pp.2996–300, 09/2019, Published by IET. (SCI)
9. Alok Agrawal, Chandra Sekhar Nalamati and Rajesh Gupta, "Hybrid DC/AC zonal microgrids enabled by solid-state transformer and centralized ESD integration", *IEEE Transactions on Industrial Electronics*, vol.66, Issue 11, pp.9097–910, 11/2019, Published by IEEE. (SCI)
10. B Mallikarjuna Reddy, P Samuel, "Analysis, Modeling and implementation of multi-phase single-leg DC/DC converter for fuel cell hybrid electric vehicles", *International Journal of Modelling and Simulation*, vol.40, Issue 4, pp.279-290, 04/2019, Published by Taylor and Francis. (SCI)
11. V. P. Singh, N. Kishor, P. Samuel, N. Singh, "Small-signal stability analysis for two-mass and three-mass shaft model of wind turbine integrated to thermal power system", *Computers & Electrical Engineering*, vol.78, pp.271-287, 09/2019, Published by Elsevier. (SCI)
12. B. Sonker, D. Kumar, P. Samuel, "Dual loop IMC

- structure for load frequency control issue of multiarea multi-sources powersystems”, *International Journal of Electrical Power & Energy Systems*, vol.112, pp.476-494, 11/2019, Published by Elsevier. (SCI)
13. Ruchika Nale, Monalisa Biswal and Nand Kishor, A transient component based approach for islanding detection in distributed generation, *Journal-IEEE Transactions on Sustainable Energy*, Vol. 10, pp. 1129-1138, 2019, Impact factor: 7.65.
 14. Sheetla Prasad, Shubhi Purwar, Nand Kishor, Non-linear sliding mode control for frequency regulation with variable-speed wind turbine systems, *Journal-International Journal of Electrical Power and Energy Systems*, Publisher: Elsevier Science, Vol.107, pp.19-33, 2019. Impact factor: 3.610.
 15. Omkar Yadav, Nand Kishor, Richa Negi, Power imbalance sharing among the power converters in MTDC system, *Journal-International Journal of Electrical Power and Energy Systems*, Publisher: Elsevier Science. Vol. 109, pp. 584-596, 2019, Impact factor: 3.610.
 16. Ruchika Nale, K. V. Nagaraju, Sandeep Biswal, Monalisa Biswal, Nand Kishor, Islanding detection in distributed generation system using intrinsic time decomposition, *Journal-IET Generation, Transmission & Distribution*, Vol. 13, pp. 626-633, 2019. Impact factor: 2.618.
 17. Vijay Pratap Singh, Nand Kishor, Paulsen Samuel, Navdeep Singh, Small-signal stability analysis for two-mass and three-mass shaft model of wind turbine integrated to thermal power system, *Journal-Computers and Electrical Engineering*, Publisher: Elsevier Science, Vol. 78, pp.271-287, 2019, Impact factor: 2.189.
 18. Shweta, Nand Kishor, Kjetil Uhlen, S. R. Mohanty, Detecting instant of multiple faults on transmission line and its types using time-frequency analysis, *Journal-IET Generation, Transmission and Distribution*. vol. 13, no. 22, pp. 5248 – 5256, 2019, Impact factor: 2.618.
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 40. Shipra Tiwari, S. sarangi, "Implementation of SPS and DPS control techniques on DAB converter with comparative analysis", *Journal of Information and optimization Sciences*, Taylor and sciences vol.40. no.8, pp 1623-1638, 11/2019.
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1. Jeetendra Prasad and Ramesh Kumar Tripathi, "Sediment Microbial Fuel Cell Energy Harvesting Power Management System for 9V/12V DC Power Supply" 11th International Exergy, Energy and Environment Symposium, SRM Institute of Science & Technology, Chennai, India. 14 – 18 July 2019.
2. R. Tiwari, R. K. Singh and N. Kumar Choudhary, "Optimal Coordination of Dual Setting Directional Over Current Relays in Microgrid with Different Standard Relay Characteristics," 2020 IEEE 9th Power India International Conference (PIICON), SONEPAT, India, 2020, pp. 1-6.
3. P. Niranjana, N. K. Choudhary and R. K. Singh, "Performance Analysis of Different Optimization Techniques on Protection Coordination of Overcurrent Relay in Microgrid," 2019 International Conference on Electrical, Electronics and Computer Engineering (UPCON), Aligarh, India, 2019, pp. 1-6.
4. R. Tiwari, R. K. Singh and N. K. Choudhary, "Performance Analysis of Optimization Technique for Protection Coordination in Single and Multi-Loop Distribution System," 2019 International Conference on Electrical, Electronics and Computer Engg. (UPCON), Aligarh, India, 2019, pp. 1-6
5. N. Kumar, A. Porwal, A. R. Singh, R. Naskar and S. Purwar, "Event Triggered Control of Robot Manipulator," 2019 6th International Conference

- on Signal Processing and Integrated Networks (SPIN), Noida, India, 2019, pp. 362-366.
6. Sharma and Rajesh Gupta, "PV-Battery Supported Level 1 DC Fast charger for Electric Vehicles", 2019 Students Conference on Engineering and Systems (SCES2019), MNNIT, Allahabad, India, 05/2019, Published By IEEE.
 7. N. Kumar, A. Agrawal and Rajesh Gupta, "Split Bridge Bi-directional DAB Converter for Multiple Battery Stacks in Solar PV System", 2019 Students Conference on Engineering and Systems (SCES2019), MNNIT, Allahabad, India, 05/2019, Published by IEEE
 8. Alok Agrawal and Rajesh Gupta, "Single Sensor Based ESS Controller for DC Bus Stabilization in Low Power Isolated Solar PV System", 45th Annual Conf. of IEEE Ind. Electronics (IECON 2019), Lisbon, Portugal, pp.2501-2506, 10/2019, Published by IEEE.
 9. Shweta Gautam, Pinaki Basu and Rajesh Gupta, "Generalized Current Control Method for Asymmetrical Cascaded H-bridge MLI", 45th Annual Conf. of IEEE Ind. Electronics (IECON 2019), Lisbon, Portugal, pp.3535-3540, 10/2019, Published by IEEE.
 10. C. S. Nalamati and Rajesh Gupta, "Modified Isolated Triple Active Bridge Bidirectional DC-DC Converter for Energy Storage Application", Int. Conf. on Electrical and Electronics Engg. (ICEEE 2020), NPTI Faridabad, India, 02/2020, Published by Springer.
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 23. Priya Singh, Nitin Singh and Niraj Kumar Choudhary, "Fault Detection and Classification in Microgrid's using Wavelet Transform and Artificial Neural Network", *VCAS-2019* (Accepted /presented in oral session and to be published in Springer, LNEE).
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 27. I. Pandey, R. Verma, A. Shrinath and D. Guha, "Robust Disturbance Observer Based Optimal Controller Design for Hybrid Power System by using Kharitonov's Theorem", *INDICON 2019*, Marwadi University, 12/2019, Published by IEEE.
 28. D. Guha, P. K. Roy and S. Banerjee, "Adaptive symbiotic organism search algorithm optimized 3DOF-PID controller for load frequency control of hybrid power system", *CALCON 2020*, IEEE Conference, Kolkata, pp.1-6, 02/2020, Published by IEEE.
 29. Rajesh Panda, Prashant Kumar Tiwari, Bijaya Kumar Mohapatra, "Risk Analysis based on Gaussian Mixture Model for GENCOs in Short Term Market", *IEEE International Conference on Renewable Energy Integration into Smart Grids: A Multidisciplinary Approach to Technology Modelling and Simulation (ICREISG)*, 02/2020.
 30. Sadhan Gope, Subhojit Dawn, Galiveeti Hema kumar Reddy, Arup Kumar Goswami, Prashant Kumar Tiwari, "Economic Sustainability Maximization Considering Demand Side Bidding in a PV Integrated Restructured Electricity Market", *Springer International Conference on Innovation in Modern Science and Technology*, pp. 617-627, 09/2019.
 31. Jayanta Bhusan Basu, Subhojit Dawn, Pradip Kumar Saha, Prashant Kumar Tiwari, "Profit Maximization by Joint Operation of Solar-Battery Storage System in a Renewable-Integrated Deregulated Power Market", *Springer International Conference on Innovation in Modern Science and Technology*, pp. 1087-1096, 09/2019.
 32. Arindam Sanyal, Prashant Kumar Tiwari, Rajesh Panda, Ravi Teja, "A Treatise on Distributed Generation Control", *Springer International Conference on Innovation in Modern Science and Technology*, pp. 1-8, 09/2019.
 33. P. K. Maurya, P. Ahmad, T. Varshney, N. Singh and N. K. Singh, "Economic Load Dispatch with Renewable Uncertainties using PSO," 2019 *International Conference on Computing, Power and Communication Technologies (GUCON)*, NCR New Delhi, India, 2019, pp. 774-779.
 34. M. Agarwal, D. Guha and S. Purwar, "Quasi-oppositional dragonfly algorithm: applied for frequency regulation of an isolated hybrid energy distributed power system," 2020 *IEEE 9th Power India International Conference (PIICON)*, Sonapat, India, 3/2020, pp. 1-6, Published by IEEE.
 35. S. Singh and D. Guha, "Robust Optimal Controller for Frequency Regulation of an Isolated Power System by using Kharitonov's

Theorem," 2020 IEEE 9th Power India International Conference (PIICON), Sonapat, India, 3/2020, pp. 1-6, Published by IEEE.

Book(s)/ Book Chapter Authored

Sl. No.	Faculty Name (Author/ Co-author)	Book	Book Chapter	Publisher
1.	Umesh Kumar Soni, Maloth Naresh and Ramesh Kumar Tripathi,	Advanced in Power and Control Engineering	"FPGA Based Speed Control and Back EMF Extraction from Line Voltages using IIR digital Filters for BLDCM,"	Springer Nature
2.	B M Reddy, P Samuel,	Lecture Notes in Electrical Engineering	Modelling and Simulation of Proton Exchange Membrane Fuel Cell Hybrid Electric Vehicle	Springer
3.	Satendra Kr Singh Kushwaha, S. R. Mohanty	Lecture Notes in Electrical Engineering	Stability Analysis of an Offshore Wind and Marine Current Farm in Grid Connected Mode Using SMES	Springer
4.	A K Gupta, P Samuel, D Kumar	Lecture Notes in Electrical Engineering	Speed Control of PMSM Drive using Jaya Optimization Based Model Reduction	Springer
5.	A K Gupta, P Samuel, D Kumar	Lecture Notes in Electrical Engineering	Jaya Optimization-Based PID Controller for Z-Source Inverter using Model Reduction	Springer
6.	Nand Kishor and Jesus Fraile Ardanuy	ICT for Electric Vehicle Integration with the Smart Grid	The Institution of Engineering and Technology (IET), UK.	Springer

Reviewer in International Journals and Conferences

Sl. No.	Faculty Name	Journal Name
1.	Prof. Nand Kishor	Associate Editor/ Subject Editor, IET Renewable Power Generation, UK, IET Generation, Transmission & Distribution, UK Guest Editor, IEEE Transactions on Industrial Informatics, Special Section on "Deep learning and data analytics to support the smart grid operation with renewable energy". Call for paper is active. The other guest editors include Dr. Anurag Srivastava (Washington State University, USA), Dr. Hemanshu Pota (University of New South Wales, Australia).
2.	Prof. Asheesh Kumar Singh	ISA Transactions Journal of Engineering Journal of energy storage IEEE Transaction on Power Delivery ETRI Journal International Journal of Electrical Power & Energy Systems IET Renewable Power Generation IETE Journal of Research
3.	Dr. Deepak Kumar	International Transactions on Electrical Energy System Journal of Engineering Science and Technology International Journal of Robust and Nonlinear Control Computers and Electrical Engineering Asian Journal of Control Indian Control Conference Journal of the Franklin Institute Simulation: International Transactions of the Society for Modeling and

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| 4. | Dr. Dipayan Guha | Simulation
Energy Systems
IEEE Transactions on Cybernetics
SCES 2019
Computers and Electrical Engineering
Iranian Journal of Science and Technology, Transactions of Electrical Engineering
ISA Transaction
Swarm and Evolutionary Computation
UPCON 2019
2020 IEEE Students Conference on Engineering & Systems (SCES 2020)
Michael Faraday IET International Summit (MFIIS 2020) |
| 5. | Dr. Suman M. | IEEE Transactions on Industry Applications
IEEE Systems Journal
IEEE Transactions on Power Electronics
IEEE Transactions on Smart Grid
IET Generation, Transmission and Distribution
Elsevier - Electric Power System Research
Elsevier - Energy conversion and management
Wiley - International Transactions on Electrical Energy Systems
Springer - Journal of Institution of Engineers (India) Series B |
| 6. | Dr. M. Venkatesh Naik | Renewable and sustainable energy Reviews
Serbian Journal of Electrical Engineering
Journal of power electronics
SCES-2019, MNNIT Allahabad.
9 th APPEC-2019 Conference IEEE Bangalore section |
| 7. | Dr. Niraj K Choudhary | International Journal of Emerging Electric Power Systems
International Journal of Power Electronics\
Turkish Journal of Electrical Engineering & Computer Sciences |
| 8. | Prof. Rajesh Gupta | IEEE Transaction on Industrial Electronics
IET Power Electronics
IEEE Industrial Electronics Society Conferences
IEEE Transaction on Power Electronics
IEEE Transaction on Power Delivery
IEEE Transaction on Industry Application
IET Generation Transmission and Distribution |
| | Dr. Prashant Kumar
Tiwari | 6 th Students' Conference on Engineering & Systems (SCES-2020)
1 st International Conference on Energy, Materials Sciences and Mechanical Engineering (EMSME 2020) |
| | Dr. Navneet K Singh | 6 th Students' Conference on Engineering & Systems (SCES-2020)
1 st International Conference on Energy, Materials Sciences and Mechanical Engineering (EMSME 2020) |
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Invited Lectures

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| 1. | A lecture delivered by Prof. Rajesh Gupta on title, "Academic Activities at MNNIT Allahabad and Preparation of Course File," Faculty Orientation Program-2019, Venue: MNNIT Allahabad, July 19-20, 2019 |
| 2. | A lecture is delivered by Dr. Rajesh Gupta at Faculty development programme (FDP), Electrical Engineering Department Shambhunath Institute of Engineering & Tech on 29/04/2019 entitled Smart Energy Delivery Systems |

3. A lecture is delivered by Dr. Rajesh Gupta at Expert Talk, EED MNIT Jaipur on 02/08/2019 entitled Control of Renewable Energy Resources
4. A lecture is delivered by Dr. Rajesh Gupta at 1st International Conference in Cutting-edge Technologies in Engineering 2019 (ICon-CuTE-2019), SRMU Lucknow on 15/11/2019 entitled DC/AC Hybrid Microgrid for low Power Distribution System
5. A lecture is delivered by Dr. Rajesh Gupta at NIWE sponsored 2nd PAN India Research Network Meet, MNIT Jaipur on 06/01/2020 entitled Renewable Energy based AC/DC Hybrid System
6. A lecture is delivered by Dr. Rajesh Gupta at ICEEE 2020, National Power Training Institute Faridabad on 28/02/2020 entitled Converters in DC/AC Microgrid
7. A lecture is delivered by Dr. Rajesh Gupta at Webinar, G. H. Rasoni Institute of Engg. and Technology, Pune on 20/05/2020 entitled Global Maximum Power Point Tracking in Solar PV System
8. Lecture delivered by Prof. Asheesh K Singh Delivered the keynote lecture on "An overview on distribution automation system" at Int. Conference on Power Electronics & IoT Applications in Renewable Energy and its Control (PARC 2020) (IEEE Conference Record No.49193) on Feb. 29, 2020, organized during February 28-29, 2020.
9. Lecture delivered by Prof. Asheesh K Singh Delivered an expert lecture titled "Smart Energy Systems" in One-week Short Term Course on "Smart Energy Systems: Operation and Control (SESOC-2019)" on December 22, 2019 organized during December 17-22, 2019 at MMMUT Gorakhpur.
10. Lecture delivered by Prof. Asheesh K Singh Delivered a keynote lecture titled "IEEE Conference Education" in 2019 IEEE Region 10 POCO on September 25, 2019 at MMMUT Gorakhpur.
11. Lecture delivered by Prof. Asheesh K Singh Theme Speaker on the theme of "Engineering for Change" in 52nd Engineers Day Celebration on September 15, 2019 at IIT Kanpur.
12. Lecture delivered by Prof. Asheesh K Singh Delivered an expert lecture on "NBA accreditation" in One day workshop on NBA accreditation on August 3, 2019 at Aditya College of Technology & Science, Satna, M.P.
13. Lecture delivered by Prof. Asheesh K Singh Delivered an expert lecture titled "Smart Energy Systems" in Faculty Development Program on Smart Energy Delivery Systems on April 30, 2019 at SIET, Jhalwa, Prayagraj.
14. Lecture delivered by Dr. Dipayan Guha at Guest Lecture, Rama University, Kanpur on 10/04/2019 entitled Electrical Machines and Control Systems.
15. Lecture delivered by Dr. Dipayan Guha at STC on Practical Aspects of Optimization, KNIT Sultanpur on 03/08/2019 entitled Optimal Control and Optimization Techniques.
16. Lecture delivered by Dr. Dipayan Guha at Short term course on Recent Trends in Power System Generation, Operation and Control, REC Bijnor on 29/08/2019 entitled Intelligent Control Algorithm Applied to Power System.
17. Lecture delivered by Dr. Dipayan Guha at One-day workshop entitled 'Recent trends in Electrical Engineering', Rewa Govt. Engineering College, Rewa, M. P. on 24/01/2020 entitled Modern Control Techniques with Disturbance Observer for Microgrid Power System.
18. Lecture delivered by Dr. Dipayan Guha at Two Days 'International Seminar on Recent Advances in Science & Technology, Rajkiya Engineering College, Ambedkar Nagar, UP on 16/02/2020 entitled Modern Control Methodologies and its application in Microgrid.
19. A lecture delivered by Prof. R. K. Tripathi, titled "Academic Activities at MNNIT Allahabad and Preparation of Course File", in Faculty Orientation Program-2019, on July 19-20, 2019 at MNNIT Allahabad.

Events Organized by Department

Sl. No.	Name	Title	From	To
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1.	Short Term Course	Emerging Power Technologies & Management (EPTM-2019)", jointly organized by KNIT Sultanpur, UP and MNNIT Allahabad, UP at EED, KNIT Sultanpur.	08.04.2019	13.04.2019
2.	International Conference	5 th IEEE Students' Conference on Engineering & Systems, MNNIT Allahabad.	29.05.2019	31.05.2019
3.	Workshop	One-week Skill Development Program on "Basic Computer Training, EED, MNNIT Allahabad.	24.06.2019	29.06.2019
4.	Workshop	4-week Internship program "Summer Internship Program, MNNIT Allahabad.	11.06.2019	08.07.2019
5.	Workshop	One-day Virtual Lab Workshop, EED, MNNIT Allahabad	21.11.2019	
6.	Short Term Course	Resilient Operation and Control of Microgrid, EED, MNNIT Allahabad.	06.01.2020	10.01.2020

Events Attended

- Prof. Rajesh Gupta, attended 45th Annual Conference of IEEE Ind. Electronics (IECON 2019), during October 14-17, 2019, at Lisbon, Portugal, organized by SERB New Delhi, MNNIT Allahabad
- Prof. Rajesh Gupta, attended – International Conference on Electrical and Electronics Engg. (ICEEE 2020), during February 27-28, 2020, at NPTI, Faridabad, India, organized by NPTI
- Prof. Asheesh Kumar Singh, Dr. Nitin Singh and Dr. Navneet Kumar Singh attended -International workshop on energy power and environment at NIT Kurukshetra during March 17-19, 2019.)
- Dr. M. Venkata Naik attended–GCAT-2019 Conference at Bangalore, 18-20 Oct. 2019
- Dr. M. Venkata Naik attended–IEEPS-2019 conference VNR Vijnana Jyothi Hyderabad
- Dr. Dipayan Guha attended– Short-term course on Power System Operation, Control & Planning with Renewable Energy Sources at NIT Kurukshetra during July 03-07, 2019.

Research Projects Completed/Ongoing

Sl. No.	Principal Investigator/ Co investigator(s)	Project Title	Funding Agency	Amount (INR)	Duration
1.	Dr. Asheesh Kumar Singh (PI)	E-Mobility: An Electricity Grid Perspective	Scheme for Promotion of Academic and Research Collaboration (SPARC)	63.38 Lakhs	Ongoing
2.	Dr. Asheesh Kumar Singh (Co-PI)	Developing a Model for Effective Adoption of Solar Energy System in India	Indian Council of Social Science Research (ICSSR)	12.00 Lakhs	Ongoing
3.	Dr. Nand Kishor (PI)	Study on Cyber-physical Approach for Electric Power Grid	Core Research Grant, Science & Engineering Research Board, New Delhi	6.8 Millions	Ongoing
4.	Dr. Navneet K. Singh (PI)	Vetting of Electrical Design/ Drawing for construction of group housing Yamuna Vihar at Naini Housing Scheme at Naini, Prayagraj, U.P.	Joint General Manager (TECH), NCC Ltd., Yamuna Villar Housing Project, ADA Colony, Near ADA Police booth, Naini, Allahabad	40.45 Lakhs	Complete
5.	Prof. Rajesh Gupta (PI)	Solar Photovoltaic Array Power Conversion using Embedded Cascaded	SERB, DST, New Delhi	34.84 Lakh	Complete

6.	Prof. Rajesh Gupta (PI)	Multilevel Hybrid DC Micro Grid System for Future Residential-Rural Electrification	MNRE, New Delhi	26.99 Lakh	Complete
7.	Prof. Rajesh Gupta (PI)	Power Electronics Converter Based Bidirectional Power Flow Controller for Energy Storage Applications	CSIR, New Delhi	20.46 Lakh	Complete

Other Information

1. Prof. Asheesh K. Singh acted as Section Chair, IEEE Uttar Pradesh. Section in 2019 & 2020.
2. Prof. R. K. Tripathi acted as Institute Coordinator National Board of Accreditation (NBA), since 20/12/2019 at MNNIT Allahabad
3. Prof. Nand Kishor received ERI Grid Transnational Access award (5th call) along with Masters/ PhD candidates (from NIT Raipur) to carry our research work at TECNALIA, Spain for 4 weeks (June-July 2019).
4. Prof. Nand Kishor Received Indo-Finland (DST - Academy of Finland) Researcher Mobility Grant for one-month (September 2019) visit to Tampere University of Technology, Finland to work with Prof. Sami Repo.

10.8 DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Vision

To become globally leading institution of higher learning, building upon the culture and the values of universal science and contemporary education and a center of research and education generating the knowledge and the technologies which lay the groundwork in shaping the future in the fields of electronics and communication engineering.

Mission

To provide quality education leading to B.Tech., M.Tech. and Ph.D. degree in the area of electronics and communication engineering and technology which may produce globally acceptable high quality skilled technical manpower. To impart technical education which may provide innovative skills in their respective

area of specialization for society in general with universal moral values and adherent to the professional ethical codes. To generate and disseminate knowledge and technologies essential to the local and global needs in the field of electronics and communication engg.

List of Laboratories:

1. Computer Architecture Lab
2. Advanced Electronics Lab
3. VLSI Lab
4. Communication Lab
5. DCN Lab
6. Microwave and Project Lab
7. Param Lab
8. Signal Processing Lab
9. Basic Electronics Lab

Courses run by Department:

1. B.Tech in ECE
2. M.Tech in ECE with specialisation in Microelectronics and VLSI
3. M.Tech in ECE with specialisation in Communication Systems
4. M.Tech in ECE with specialisation in Digital Systems
5. Ph.D.

Courses in which students were admitted during 04/2019 - 03/2020 :

1. B.Tech in ECE
2. M.Tech in ECE with specialisation in Microelectronics and VLSI
3. M.Tech in ECE with specialisation in Communication Systems
4. M.Tech in ECE with specialisation in Digital Systems
5. Ph.D.

List of Ph.D. Thesis Completed

Sl.No.	Name of Student	Reg. No.	Thesis Title	Thesis Supervisor(s)
1.	Ms. Pooja Rani	2013REL04	Suppression of limit cycles in fixed-point state-space digital filters with external interference	Dr. Haranath Kar
2.	Mr. Prabhat Chandra Shrivastava	2013REL54	Efficient Realization of Digital Filters	Dr. Manish Tiwari
3.	Mr. Yashu Swami	2015REL09	Modeling, analysis and physics of threshold voltage variation for advanced nano mosfets.	Dr. Sanjeev Rai
4.	Mr. Mani Kant Kumar	2013REL02	Criteria for the realization of interfered digital filters with finite wordlength nonlinearity	Dr. Haranath Kar
5.	Ms. Sima Sahu	PH.D./13/EC E/1138	Study and Development of De-noising Techniques for Medical Images	Dr. Basant Kumar
6.	Mr. Raghavendra Pal	2016REL08	Multichannel and Cognitive MAC Protocols for Safety Applications in VANET	Prof. Rajeev Tripathi & Dr. Arun Prakash
7.	Ms. Anjali Priya	2014REL54	Computational Modeling And Simulation Study of Triple Metal Gate Recessed-Source /Drain Fdsoi Mosfet For Nanoscale Applications	Dr. Ram Awadh Mishra

Publication in International Journals

- Sumit Kumar Jha, Sayan Basu Roy and Shubhendu Bhasin, "Initial Excitation-Based Iterative Algorithm for Approximate Optimal Control of Completely Unknown LTI Systems", IEEE Transactions on Automatic Control, vol.64, Issue 12, pp.5230-5237, 04/2019, Published by IEEE. (SCI, IF=5.625)
- J. B. Maurya, Y. K. Prajapati, "Comparative Analysis of Silicon and Black Phosphorous as an Add-Layer in Nanomaterial based Plasmonic Sensor", Optical and Quantum Electronics, vol.51, Issue 93, 04/2019. (SCI, I =1.16)
- Brijesh Kumar Chaurasia, IftekarAlam, Arun Prakash, "MPMAC: Clustering Based MAC Protocol for VANETs", Wireless Personal Communications, vol.108, pp.409 -436, 04/2019, Published by Springer. (SCI, IF=1.061)
- Ajay Yadav, Y. K. Prajapati, "PAPR Minimization of Clipped OFDM Signals Using Tangent Rooting Companding Technique", Wireless Personal Communications, vol.105, Issue 4, pp.1435-1447, 04/2019. (SCI, IF = 1.20)
- Prateek Raj Gautam, Sunil Kumar, Akshay Verma, Tarique Rashid, and Arvind Kumar, "Energy-Efficient Localization of Sensor Nodes in WSNs using Beacons from Rotating Directional Antenna", IEEE Transactions on Industrial Informatics, pp.1-9, 04/2019, Published by IEEE. (SCI, IF = 7.377)
- Akshay Verma, Tarique Rashid, Prateek Rai Gautam, Sunil Kumar, and Arvind Kumar, "Cost and Sub-Epoch Based Stable Energy-Efficient Clustering Algorithm for Heterogeneous Wireless Sensor Networks", Wireless Personal Communications, pp.1-15, 04/2019, Published by Springer. (SCI, IF = 0.929)
- Varun Mishra, Yogesh Kumar Verma, Santosh Kumar Gupta, "Investigation of Localized Charges on Linearity and Distortion Performance of Ferroelectric Dual Material Gate All Around TFETs", Journal of Nano-and Electronic Physics, vol.11, Issue 4, pp.04014-1-04, 04/2019, Published by Sumy State University (Sumy, Ukraine). (Scopus, IF = 0.201)
- AkanshaVerma, Shrey, Shweta Tripathi, "Magnetic annealing temperature modulated room temperature ferromagnetism in Zn doped

- ZnO thin film", *Journal of Magnetism and Magnetic Materials*, vol.478, pp.28-37, 05/2019, Published by North-Holland. (SCI, IF = 3.046)
9. Shivam, Y. K. Prajapati, "Highly Sensitive D-shaped PCF based SPR Refractive Index Sensor using Gold-Graphene", *Applied Physics A*, vol.125, 05/2019, (SCI, IF = 1.604)
 10. Sajal Agarwal, Y. K. Prajapati, "Multifunctional Metamaterial Surface for Absorbing and Sensing Applications", *Optics Communications*, vol.439, pp.304-307, 05/2019, (SCI, IF = 1.88)
 11. Y. K. Prajapati*, Akash Srivastava, "Effect of Blue P/MoS₂ Heterostructure and Graphene Layer on the Performance Parameter of SPR Sensor", *Superlattice and Microstructure*, vol.129, pp.152-162, 05/2019, (SCI, IF = 2.099)
 12. Yogesh Kumar Verma, Santosh Kumar Gupta, Varun Mishra, Prateek Kishor Verma, "Analytical Modeling and Electrical Characterization of ZnO based HEMTs", *International Journal of Electronics*, vol.106, Issue 5, pp.707-720, 05/2019, Published by Taylor and Francis. (SCI, IF = 1.070)
 13. Santosh Kumar Gupta, Satyaveer Kumar, "Analytical Modeling of a Triple Material Double Gate TFET with Hetero-Dielectric Gate Stack", *Silicon*, vol.11, Issue 3, pp.1355-136, 06/2019, Published by Springer. (SCI, IF = 1.210)
 14. Swami, Yashu, and Sanjeev Rai., "Ultra-thin high-K dielectric profile based NBTI compact model for Nanoscale bulk Mosfet", *Silicon*, vol.11, pp.1661-167, 06/2019, Published by Springer. (SCI, IF = 1.499)
 15. Pritam Keshari Sahoo, Ajay Kumar Yadav, Y. K. Prajapati, Rajeev Tripathi, "Phase Sampled Detection of Hybrid Modulation Impaired by Gamma-Gamma Turbulence", *Microwave and Optical Technology Letters*, vol.61, Issue 9, pp.2182-218, 06/2019, Published by Wiley Online Library. (SCI, IF = 0.933)
 16. Ajay Yadav, Pritam Keshari Sahoo, Y. K. Prajapati, "PAPR Reduction and Improved BER Performance of OFDM System using DFT Precoder and Root-Based Nonlinear Companding", *Optical Engineering*, vol.58, Issue 7, 07/2019, (SCI)
 17. Nilesh Anand Srivastava, Anjali Priya, and Ram Awadh Mishra, "Design and analysis of nano-scaled SOI mosfet-based ring oscillator circuit for high density ICs", *Applied Physics A*, vol.125, Issue 8, pp.533, 07/2019, Published by Springer. (SCI, IF = 1.784)
 18. P. Rani, M. K. Kumar and H. Kar, "Hankel norm performance of interfered fixed-point state-space digital filters with quantization /overflow nonlinearities", *Circuits, Systems, and Signal Processing*, vol.38, Issue 8, pp.3762-377, 08/2019, Published by Springer. (SCI, IF= 1.922)
 19. S. Pandey, S. K. Tadepalli, V. K. Rao Kandavli and A. Vishwakarma, "Stability of uncertain 2-D discrete systems in presence of generalized overflow nonlinearities", *International Journal of Engineering and Advanced Technology*, vol.8, Issue 6, pp.725-732, 09/2019, Published by Blue Eyes Intelligence Engineering & Sciences Publication (BEIESP). (Scopus)
 20. Sunil Kumar, Prateek Raj Gautam, Akshay Verma, Tarique Rashid and Arvind Kumar, "An Energy-Efficient Transmission in WSNs for Different Climatic Conditions", *Wireless Personal Communications*, pp.1-22, 09/2019, Published by Springer. (SCI, IF = 0.929)
 21. Raghavendra Pal, Arun Prakash, Rajeev Tripathi and Kshirasagar Naik, "A Scheduling Algorithm based on Preemptive Priority and Hybrid Data Structure for CR-VANET", *IET Communications*, vol.3, Issue 20, pp.3443-3451, 09/2019, Published by IET. (SCI, IF = 2.100)
 22. Priyank Khare & Vinay Kumar Srivastava, "Secure and Robust Image Watermarking Scheme Using Homomorphic Transform, SVD and Arnold Transform in RDWT Domain", *Advances in Electrical and Electronic Engineering*, vol.17, Issue 3, pp.343-351, 09/2019. (Scopus)
 23. Richa Singh, Lalu Yadav, Shrey and Shweta Tripathi, "Effect of Annealing Time on the Structural and Optical Properties of n-CuO thin films deposited by sol-gel spin coating technique and its application in n-CuO/p-Si heterojunction diode", *Thin Solid Films*, vol.685, pp.195-203, 09/2019, Published by Elsevier. (SCI, IF = 1.93)

24. Shailesh Kumar, Abhinav Adarsh, Basant Kumar, Amit Kumar Singh, "An automated early diabetic retinopathy detection through improved blood vessel and optic disc segmentation", *Optics and Laser Technology*, 09/2019, Published by Elsevier. (SCI, IF=3.233)
25. Richa Singh and Shweta Tripathi, "Evaluation of Optical Parameters and Characterization of few layer sputtered MoS₂ film by Spectroscopic Ellipsometry", *Optical and Quantum Electronics*, vol.51, Issue 10, pp.326, 10/2019, Published by Springer. (SCI, IF = 1.68)
26. Y. K. Prajapati, Rahul Kumar, Vivek Singh, "Design of a photonic crystal fiber for dispersion compensation and sensing using modified air holes of the cladding", *Brazilian Journal of Physics*, vol.49, Issue 5, pp.745-751, 10/2019, Published by Springer. (SCI, IF = 0.833)
27. Gourab Das, Anand Sharma, Ravi Kumar Gangwar, Mohammad S Sharawi, "Performance Improvement of Multiband MIMO Dielectric Resonator Antenna System With a Partially Reflecting Surface", *IEEE Antennas and Wireless Propagation Letters*, vol.18, Issue 10, pp.2105-2109, 10/2019, Published by IEEE. (SCI, IF = 3.527)
28. Yogesh Kumar Verma, Varun Mishra, Santosh Kumar Gupta, "Electrical Characterization of AlGa_N/Ga_N Quadruple Gate Heterostructure Field Effect Transistor for Analog Applications", *Journal of Nanoelectronics and Optoelectronics*, vol.14, Issue 10, pp.1358-136, 10/2019, Published by American Scientific Publishers. (SCI, IF=1.069)
29. Mohammad Kaifi, Santosh Kumar Gupta, "Simulation of Perovskite based Solar Cell and Photodetector using SCAPS Software", *International Journal of Engineering Research and Technology (IJERT)*, vol.12, Issue 10, pp.1778-1786, 10/2019, Published by International Research Publication House (IRPH). (Scopus, IF = 0.145)
30. N. Agarwal and H. Kar, "Improved criterion for robust stability of discrete-time state-delayed systems with quantization/ over flow nonlinearities", *Circuits, Systems, and Signal Processing*, vol.38, Issue 11, pp.4959-4980, 11/2019, Published by Springer. (SCI, IF= 1.922)
31. Nilesh Anand Srivastava, Ram Awadh Mishra, "Linearity Distortion Assessment and Small-Signal Behavior of Nano-Scaled SOI MOSFET for Terahertz Applications", *ECS Journal of Solid State Science and Technology*, vol.8, Issue 12, pp.N234-N244, 12/2019, Published by The Electrochemical Society. (SCI , IF = 1.795)
32. Sapna Patel, Dushyant Kumar, Nitesh Kumar Chaurasia and Shweta Tripathi, "Analytical Modeling of Surface Potential and Drain Current of Hetero-Dielectric DG TFET and its Analog and Radio-Frequency Performance Evaluation", *Semiconductors*, vol.53, Issue 13, pp.1797-1803, 12/2019, Published By Pleiades. (SCI , IF = 0.672)
33. Shrey and Shweta Tripathi, "Comparative Analysis of Double Gate Junction Less (DG-JL) and Gate Stacked Double Gate Junction Less (GSDGJL) MOSFETs", *Semiconductors*, vol.53, Issue 13, pp.1804-1810, 12/2019, Published by Pleiades. (SCI, IF = 0.672)
34. Raghavendra Pal, Arun Prakash, Rajeev Tripathi, and Kshirasagar Naik, "Regional Super Cluster based Optimum Channel Selection for CR-VANET", *IEEE Transactions on Cognitive Communications and Networking*, vol.6, Issue 2, pp.607 -617, 12/2019, Published by IEEE. (SCI, IF = 4.574)
35. Kamal Rudra, Y. K. Prajapati, "Effect of Mn doping on defect-related photoluminescence and nanostructure of dense 3-D Nano-root Network of ZnO", *Ceramics International*, vol.46, pp. 10135-1014, 01/2020, Published by Elsevier. (SCI, IF = 3.83)
36. Raj Kumar, Ritesh Kumar Jaiswal, Ram Awadh Mishra, "Perspective and Opportunities of Modulo 2n-1 Multipliers in Residue Number System: A Review", *Journal of Circuits, Systems and Computers*, 01/2020, Published by World Scientific, <https://doi.org/10.1142/S0218126620300081>. (SCI, IF = 0.481)
37. Anshika Srivastava, Richa Singh and Shweta Tripathi, "Design and Analysis of visible photonics resonators coated with CuO thin film", *Nanotechnology*, vol.31, Issue 15, pp.155201, 01/2020, Published by IOP. (SCI , IF = 3.5)

38. Shivam Singh, Y. K. Prajapati, "Dual-polarized ultrahigh sensitive Gold/MoS₂/Graphene based D-shaped PCF refractive index sensor in near to mid- IR region", *Optical & Quantum Electronics*, vol.52, Issue 1, 01/2020, Published by Springer. (SCI, IF = 1.842)
39. Srijan Pathak, Spriha Singh, Tanya Jha, Ankush Agarwal and Shweta Tripathi, "Analytical Modeling and Simulation of Highly Sensitive n-RADFET Dosimeter", *Int. J. Thin. Film. Sci. Tec*, vol.9, Issue 1, pp.41-49, 01/2020, Published by NSP. (Scopus)
40. Akash Srivastava, Alka Verma, Ritwick Das, Y. K. Prajapati, "A Theoretical Approach to Improve the Performance of SPR Biosensor using MXene and Black Phosphorus", *Optik*, vol.203, pp.163430, 02/2020, Published by Elsevier. (SCI, IF = 2.187)
41. A. K. Dwivedi, Anand Sharma, A. K. Singh & V. Singh, "Quad-port ring dielectric resonator based MIMO radiator with polarization and space diversity", *Microwave and Optical Technology Letters*, vol.62, Issue 6, pp.2316-2327, 02/2020, Published By Microwave and Optical Technology Letters. (SCI , IF = 0.957)
42. Sarika Pal, Y. K. Prajapati, J. P. Saini, "Influence of Graphene's Chemical Potential on SPR Biosensor using ZnO for DNA Hybridization", *Optical Review*, vol.27, pp.57-64, 02/2020, Published by springer. (SCI , IF = 1.068)
43. Gagandeep Bharti, Dharmendra Kumar, Anil K Gautam, Anand Sharma, "Two port ring shaped dielectric resonator based diversity radiator with dual band and dual polarized features", *Microwave and Optical Technology Letters*, vol. 62, Issue 2, pp.581-588, 02/2020, Published by Wiley. (SCI, IF = 0.927)
44. Kumar, Amrish, Yashu Swami, and Sanjeev Rai., "Modeling of surface potential and fringe capacitance of selective buried oxide junction less transistor", *Silicon*, vol.12, pp. Not Yet As, 03/2020, Published by Springer. (SCI, IF=1.499)
45. Akash Srivastava, Ritwick Das, Y. K. Prajapati, "Effect of Perovskite Material on the Performance of SPR Biosensor", *IET Opto-electronics*, vol.10, Issue 10, 03/2020, Published by IET publications. (SCI, IF = 1.742)
46. Maurya, Prashant Kumar, Vishal Gupta, Maninder Singh, Amit Kumar Singh, Basant Kumar and Anand Mohan, "Automated detection of diabetic macular edema involving cystoids and serous retinal detachment", *Optics & Laser Technology*, vol.127, 03/2020, Published by Elsevier. (SCI, IF = 3.233)
47. Neha Arora, Sindhu Hak Gupta, Basant Kumar, "An approach to investigate the best location for the central node placement for energy efficient WBAN", *Journal of Ambient Intelligence and Humanized Computing*, 03/2020, Published by springer. (SCI , IF = 3.348)
48. Ankita Srivastava, Arun Prakash and Rajeev Tripathi, "An Adaptive Intersection Selection Mechanism using Ant Colony Optimization for Efficient Data Dissemination in Urban VANET", *Peer-to-Peer Networking and Applications*, vol.13, pp.1 -19, 03/2020, Published by Springer. (SCI, IF = 2.793)
49. Pinku Ranjan, Mihir Patil, Sneha Chand, Arunesh Ranjan, Satyam Singh, Anand Sharma, "Investigation on dual-port printed MIMO antenna with reduced RCS for C-band radar application", *International Journal of RF and Microwave Computer-Aided Engineering*, vol.30, Issue 3, pp.e22092, 03/2020, Published by Wiley. (SCI, IF = 1.528)
50. P. Kokil; S. Jogi; C. K. Ahn and H. Kar, "An improved local stability criterion for digital filters with interference and overflow nonlinearity", *IEEE Transactions on Circuits and Systems II: Express Briefs*, vol.67, Issue 3, pp.595-599, 03/2020, Published by IEEE. (SCI, IF = 3.25)
51. Sajal Agarwal, Y. K. Prajapati, "Metamaterial Based Sucrose Detection Sensor Using Transmission Spectroscopy", *Optik*, vol.205, pp. 164276, 03/2020, Published by Elsevier. (SCI, IF = 2.187)
52. Anand Sharma, Surbhi Gupta, Gourab Das, Ravi Kumar Gangwar, "Quad Band Quad Sense Circularly Polarized Dielectric Resonator Antenna for GPS/ CNSS/ WLAN/ WiMAX Applications", *IEEE Antennas and Wireless Propagation Letters*, vol.19, Issue 3, pp.403-407, 03/2020, Published by IEEE. (SCI, IF = 3.726)

Publication in International Conferences

1. Basant Kumar, Sonali Ray, Meenakshi Sharma, Rohini Srivastava, Nitin Sahai, Dinaesh Bhatia, R. P. Tewari, "Implementation of Low Delay Dual Chamber Pacemaker Using Verilog", 6th International Conference on Signal Processing and Integrated Networks (SPIN), Noida, India, 2019, pp.59-62, 05/2019, Published by IEEE.
2. Basant Kumar, Devashish Sen, Rohini Srivastava, Nitin Sahai, R. P. Tewari, "Development of IoT Enabled Low Cost Management System for m-Cardiology", ICAEEC, 2019, IIIT Allahabad, Prayagraj, 05/2019.
3. Basant Kumar, Abhijit Jha, Shailesh Kumar, Ajitabh Srivastava, Rajeev Gupta, "Diabetic Retinopathy Detection and Grading From FundusImage Using Deep Learning Library Tensorflow", Surgetica, 2019, Rennes, France, 06/2019.
4. Abhijit Jha, Shailesh Kumar, Ajitabh Srivastava, Rajeev Gupta and Basant Kumar, "Diabetic Retinopathy Detection and Grading From FundusImage Using Deep Learning Library Tensorflow", 6th Surgetica 2019, Rennes, France., pp.102-104, 06/2019.
5. Basant Kumar, Aniket Pratik, Maninder Singh, Kokkula Sriraj, Meesala A. Kumar, Rajeev Gupta, Deepak Agrawal, "Computer Assisted Detection of Good View Frame from USG Video for ONSD Measurement", Surgetica, 2019, Rennes, France, 06/2019,
6. S. Pandey, S. K. Tadeballi, V. K. R. Kandavli, H. Kar, "Improved Criterion for Stability Analysis of Discrete-Time Systems Subject to Saturation Nonlinearities and Variable Time-Lags", 2019 IEEE 1st International Conference on Energy, Systems and Information Processing (ICESIP), Chennai, India, pp.1-5, 07/2019, Published by IEEE.
7. Aniket Pratik, Maninder Singh, Kokkula Sriraj, Meesala A. Kumar, Rajeev Gupta, Deepak Agrawal and Basant Kumar, "Computer Assisted Detection of Good View Frame from USG Video for ONSD Measurement", 6th Surgetica 2019, Rennes, France, pp.108-110, 07/2019.
8. Basant Kumar, Abhinav Adarsh, Ayushi Tiwari, "Performance Analysis of Data Sensitive Adaptive MAC Protocol for Intra-Hospital Scenario", Tenth International Conference on Computing, Communications and Networking Technologies (ICCCNT), Kanpur, 2019, 07/2019.
9. Suchitra Pandey, Siva Kumar Tadeballi, V. K. Rao Kandavli, H. Kar, "Improved Criterion for Stability Analysis of Discrete-Time Systems Subject to Saturation Nonlinearities and Variable Time-Lags", 2019 IEEE 1st International Conference on Energy, Systems and Information Processing (ICESIP), Chennai, India, pp.05 pages, 07/2019, Published by IEEE.
10. Kumar, Shailesh, Ajitabh Kumar Srivastava, Abhijeet Jha, Abhinav Adarsh, Rajeev Gupta, and Basant Kumar, "Implementation of Linear Structuring Element in Open CV for Blood Vessel Segmentation from Color Fundus Images", 10th International Conference on Computing, Communication and Networking Technologies (ICCCNT), IIT, Kanpur, India, 07/2019, Published by IEEE-45670.
11. Basant Kumar, Shailesh Kumar, Ajitabh Kumar Srivastava, Abhijeet Jha, Abhinav Adarsh and Rajeev Gupta, "Implementation of Linear Structuring Element in Open CV for Blood Vessel Segmentation from Color Fundus Images", Tenth International Conference on Computing, Communications and Networking Technologies, Kanpur, 2019, 07/2019.
12. Mamidi Nagaraju, Santosh Kumar Gupta, Vijaya Bhadauria, Devarshi Shukla, "An Efficient Mixed Parallel Pipeline SAD Architecture Design and Implementation for HEVC Motion Estimation", 2nd International Conference on VLSI, Communication and Signal Processing, MNNIT Allahabad, Prayagraj, India, 10/2019, Published by Springer.
13. Sougata Ghosh Saumya Tripathi and Vijaya Bhadauria, "A Low harmonic High Gain Sub-Threshold Fliped Voltage Follower Based Bulk-driven OTA Suitable for low frequency application", 2nd International Conference VLSI, Communication and Signal Processing, VCAS 2019, MNNIT, Allahabad, 10/2019, Published by Springer.
14. Santosh Kumar Gupta, Sangaraju Varun, "Slotted I-Patch with Capacitive Probe Fed Microstrip Antenna for Wideband Applications",

- 2nd International Conference on VLSI, Communication and Signal Processing, MNNIT Allahabad, Prayagraj, India, 10/2019, Published by Springer.
15. Abhishek Kumar, Sushmita Jaiswal, Santosh Kumar Gupta, "Controlling GIDL using Core-Shell Technique in Conventional Nanowire", 2nd International Conference on VLSI, Communication and Signal Processing, MNNIT Allahabad, Prayagraj, India, 10/2019, Published by Springer.
16. Abhishek Kumar, Santosh Kumar Gupta and, "A Low Power approach for designing 12-bit current steering DAC", 2nd International Conference on VLSI, Communication and Signal Processing, VCAS 2019, MNNIT, Allahabad, 10/2019, Published by Springer.
17. Prateek Kishor Verma, Santosh Kumar Gupta, "Virtually Doped Silicon-on-Insulator Junction less Transistor for Reduced OFF state Leakage Current", 2nd International Conference on VLSI, Communication and Signal Processing, MNNIT Allahabad, Prayagraj, India, 10/2019, Published by Springer.
18. Shilpi, M.Shukla, Arvind Kumar, "PAPR Reduction in OFDM for VLC System", Intranational conference on VLSI, Siganla Processing and Communication (VCAS 2019), ECED, MNNIT Allahabad, 10/2019, Published by Springer.
19. A. K. Ravat, A. Dhawan, M. Tiwari, "LMI and YALMIP: Modelling and Optimization Toolbox in Matlab", International Conference on VLSI, Communication & Signal Processing, Allahabad, 10/2019, Published by Springer, Lecture Notes in Electrical Engineering.
20. Kumar Mohit. Jojo Johnson. Kumari Simran. Rajeev Gupta. Basant Kumar., "A survey study of diseases diagnosed through imaging methodology using ultrasonography.", 2nd International Conference on, Communication and Signal Processing (VCAS 2019), Motilal Nehru National Institute of Technology Allahabad, Prayagraj-211004, U.P, India., 10/2019, Published by Springer.
21. Mamidi Nagaraju, Devarshi Shukla, Santosh Kumar Gupta and Vijaya Bhadauria, "Design and Implementation of an Efficient Mixed Parallel-pipeline SAD Architecture for HEVC Motion Estimation", 2nd Int. Conf. VLSI, Communication and Signal Processing, VCAS 2019, MNNIT, Allahabad, 10/2019, Published by Springer.
22. Sanjay Kumar Prajapati, Devarshi Shukla, Santosh Kumar Gupta, "Improved Noise Margin and Reduced Power Consumption in Subthreshold Adiabatic Logic using Dual Rail Power Supply", 2nd International Conference on VLSI, Communication and Signal Processing, MNNIT Allahabad, Prayagraj, India, 10/2019, Published by Springer.
23. Tanmay Dubey and Vijaya Bhadauria, "A Linear OTA using Series Connected Source Degenerated Bulk Driven Floating Gate Differential Pairs", 2nd Int. Conf. VLSI, Communication and Signal Processing, VCAS 2019, Oct 21-23, 2019, MNNIT, Allahabad, 10/2019, Published by Springer.
24. Sunil Kumar, Prateek Raj Gautam, Akshay Verma, and Arvind Kumar, "Energy Efficient Routing using Sectors Based Energy-Hole Reduction in WSNs", in 2019 International Conference on Electrical, Electronics and Computer Engineering (UPCON), Aligarh, India, pp.1-4, 11/2019, Published by IEEE.
25. Devesh Shukla, Vinay Kumar, Arun Prakash, "Performance Evaluation of IEEE 802.11p Physical Layer for Efficient Vehicular Communication", International conference on VLSI, Communications and signal processing, MNNIT Allahabad, pp.51-60, 11/2019, Published by Springer.
26. P. R. Gautam, S. Kumar, A. Verma, and A. Kumar., "Localization of Sensor Nodes in WSNs using Three Dimensional Angle of Arrival detection at BS", 2019 International Conference on Electrical, Electronics and Computer Engineering (UPCON), Aligarh, pp.1-4, 11/2019, Published by IEEE.
27. Nilesh Anand Srivastava, Anjali Priya, Ram Awadh Mishra, "Performance evaluation of Hetero-Gate-Dielectric Re-S/D SOI Mosfet for low Power Applications", 2019 IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer

- Engineering (UPCON), AMU Aligarh, pp.1-6, 11/2019, Published by IEEE.
28. Raj Kumar, Ritesh Kumar Jaiswal, Ram Awadh Mishra, "Efficient Design for High Speed and Low Area Reverse Converter for Moduli Set $\{2^n, 2^{2n}-1, 2^{2n}+1\}$ ", 2019 IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON), AMU Aligarh, pp.1-6, 11/2019, Published by IEEE.
 29. Dinesh Chaurasia, Kalpana Singh, V. K. Rao Kandavli, "Improved Stability Result for Discrete-time Systems with Saturation Nonlinearities and Time-varying Delay", 2019 International Conference on Electrical, Electronics and Computer Engineering (UPCON), Aligarh, India, pp.06 pages, 11/2019, Published by IEEE.
 30. Raj Kumar, Ram Awadh Mishra, "Design of Efficient Sign Detector for Moduli Set $\{2^n-1, 2^n, 2^n+1\}$ in Residue Number System", 2019 IEEE Uttar Pradesh Section International Conference on Electrical, Electronics & Computer Engineering (UPCON), AMU Aligarh, pp.1-5, 11/2019, Published by IEEE.
 31. Manish Rai, Abhinav Gupta, Sanjeev Rai, "Effect of various parameter variations on electrical characteristics of Rectangular Gate All Around Junctionless Transistor", Advances in VLSI, Communication, and Signal Processing, MNNIT Allahabad, pp. Not Yet As, 11/2019, Published by Springer.
 32. Dinesh Chaurasia, Kalpana Singh, V. K. Rao Kandavli, "Wider Stability Region for Discrete-time Systems with Structured Saturation Nonlinearities and Time-varying Delay", 2019 International Conference on Electrical, Electronics and Computer Engineering (UPCON), Aligarh, India, pp.05 pages, 11/2019, Published by IEEE.
 33. Kalpana Singh, Dinesh Chaurasia, V. K. Rao Kandavli, "An Enhanced Criterion for Induced H_∞ Stability of Discrete-time Systems with Time-varying Delay and External Disturbance", 2019 IEEE Conference on Information and Communication Technology, Allahabad, India, pp.06, 12/2019, Published by IEEE.
 34. Gupta, Abhinav, Amrish Kumar, Sanjeev Rai, and Rajeev Tripathi., "Impact of Oxide Engineering on Analog/RF Performance of Doping-Less DMDG Mosfet.", Advances in VLSI, Communication, and Signal Processing, MNNIT Allahabad, pp.557-567, 12/2019, Published by Springer.
 35. Ankita Srivastava, Arun Prakash and Rajeev Tripathi, "Quality-of-Service based Reliable Route Discovery using Ant Colony Optimization for VANET", 2019 IEEE Conference on Information and Communication Technology (CICT 2019), IIIT Allahabad, pp.1-6, 12/2019, Published by IEEE Xplore.
 36. Sumit Kumar Jha, Sayan Basu Roy and Shubhendu Bhasin, "Filter based Explorized Policy Iteration Algorithm for On-Policy Approximate LQR", 2019 IEEE Symposium Series on Computational Intelligence (SSCI), Xiamen, China, China, pp.133-140, 12/2019, Published by IEEE.
 37. Gupta, Abhinav, Amrish Kumar, Sanjeev Rai, and Rajeev Tripathi., "Noise and Linear Distortion Analysis of Analog/RF Performance in a Two Dimensional Dielectric Pocket Junctionless Double Gate (DP-JLDG) MOSFET to Control SCEs", Advances in VLSI, Communication, and Signal Processing, MNNIT Allahabad, pp.533-547, 12/2019, Published by Springer.
 38. Kumar, Amrish, Abhinav Gupta, and Sanjeev Rai, "Dielectric Pocket (DP) Based Channel Region of the Junction-Less Dual Material Double Gate (JLDMDG) Mosfet for Enhanced Analog/RF Performance", Advances in VLSI, Communication, and Signal Processing, MNNIT Allahabad, pp.597-604, 12/2019, Published by Springer.
 39. Lucky Agarwal, Brijesh Kumar Singh, Shweta Tripathi, P Chakrabarti, "Work Function Estimation of Copper-Doped ZnO Thin Film", VCAS, pp.639-646, 01/2020, Published by Springer, Singapore.
 40. Richa Singh, Shweta Tripathi, "Refractive Index and Dielectric Constant Evaluation of RF Sputtered Few Layer MoS₂ Thin Film", VCAS, pp.647-654, 01/2020, Published by Springer, Singapore.

Patents

1. Patent no.201931016829, Entitled a method and a system for automatic detection and grading of cataract, Applied on 27/04/2019.The details are

follows < The present invention provides automated detection and grading of Cataract based on the captured key.

Reviewer in International Journals and Conferences

Sl. No.	Faculty Name	Journal Name
1.	Dr. Sumit Kumar Jha	IEEE Transactions on Systems, Man and Cybernetics: Systems IEEE Transactions on Control Systems Technology International Conference on VLSI, Communication and Signal Processing (VCAS 2019) IFAC World Congress 2020 6 th Students' Conference on Engineering & Systems (SCES-2020)
2.	Dr. Amit Dhawan	Circuits, Systems & Signal Processing Transactions of the Institute of Measurement and Control
3.	Dr. Anand Sharma	Microwave and Optical Technology Letters International Journal of RF and Microwave Computer-Aided Engineering IET Microwaves, Antennas & Propagation Journal of Electromagnetic Waves and Applications
4.	Dr. Arun Prakash	Vehicular Communications IEEE Transactions on Cognitive Communication and Networking IEEE Access Adhoc Networks Physical Communication Computer Networks Transactions on Emerging Telecommunications Technologies
5.	Dr. Basant Kumar	Sustainable Computing: Informatics and Systems Journal of Information Sciences Signal Processing & Integrated Network,(SPIN 2014) Journal Multimedia Tools and Applications Journal of Security and Communication Networks Journal of Information and Computer Security Journal of Intelligent Systems International Conference on Power Control & Embedded System (ICPCES 2014) Students Conference on Engineering & Systems(SCES 2013)
6.	Dr. Haranath Kar	Transactions of the Institute of Measurement and Control Journal of the Franklin Institute IEEE Transactions on Circuits and Systems II: Express Briefs Fluctuation and Noise Letters Transactions of the Institute of Measurement and Control
7.	Dr. Manish Tiwari	Transactions of the Institute of Measurement and Control Circuit System Signal Processing International Conference on Power, Control and Embedded Systems Students Conference on Engineering and Systems International Conference on Power, Control & Embedded Systems International Conference on Emerging Trends in Communication Technologies
8.	Dr. R. K. Nagaria	IEEE International Conference on Emerging Trends in Electrical,

9. Dr. Rajeev Tripathi
Electronics & Sustainable Energy Systems (ICETEES-16)
International Conference on Advance Computational Technique in Information & Communication Technology (ICACTICT-16)
International Journal of Electronics, Taylor and Francis
IEEE Sponsored Conference "Students' Conference on Engineering and Systems (SCES-2012)", MNNIT, Allahabad
West Indian Journal of Engineering
Wireless Personal Communication Springer
International Conference on Current Trends in Technology, (NUICONE2011), Nirma University, Ahemdabad
IEEE Communication Letters
Adhoc Networks
IEEE Conference on Wireless Communication and Sensor Networks (WCSN), IIIT Allahabad
IETE Journal of Research, Taylor and Francis
National Conference on Research and Practices in current area of IT (RPIT04) held at SLIT India
IEEE UPCON, IIIT Allahabad
First International Conference on Distributed Computing and Internet Technology (ICDCIT2004)
International Journal of Electronics
Vehicular Communication
Optik – International Journal for Light and Electron Optics
Journal of Computational Science
10. Dr. Ram Awadh Mishra
Journal of Computational Electronics (JCEL)
Analog Integrated Circuits & Signal Processing (ALOG)
International Journal of Applied Mathematics and Computer Science (AMCS)
International Conference on Recent Advances in Engineering, Technology and Computational Sciences (RAETCS-2018)
11. Dr. Sanjeev Rai
ICCCT 2010
ICCCT 2011
ICCCT 2013
ICPCES 2014
ICPCES 2017
UPCON 2017
12. Dr. Santosh Kumar Gupta
Wireless Personal Communications
International Journal of Electronics Letters
Journal of Computational Electronics
Semiconductor Science and Technology
International Journal of VLSI Design and Communication Systems (VLSIC)
Superlattices and Microstructures
Journal of the Institution of Engineers (INDIA): Series B
SCES-2016 MNNIT Allahabad
Microelectronics Journal
IEEE UP Section Conference on Electrical, Computer and Electronics (IEEE UPCON2015)
Student Technical Paper and Model Contest for Engineering and Management (TECHNOVATION 2017)

- 1st International Conference on VLSI, Communication and Signal Processing (VCAS 2018)
5th Students' Conference on Engineering and Systems (SCES 2019)
Second International Conference on VLSI, Communication and Signal Processing (VCAS-2019)
2nd IEEE International Conference on Power Energy, Environment and Intelligent Control (PEEIC-2019)
Conference on Information and Communication Technology (CICT-2019)
Third International Conference on VLSI, Communication, and Signal Processing (VCAS-2020)
SCES-2013 MNNIT Allahabad
ICPCES-2014 MNNIT Allahabad
EDCAV-2015 NIT Meghalaya
SCEECs-2014 MANIT Bhopal
SCES-2015 MNNIT Allahabad
2nd International Conference on Control Computing Communication and Materials (ICCCCM-2016)
IEEE Students
Transactions of the Institute of Measurement and Control
Second International Conference on VLSI, Communication and Signal Processing (VCAS 2019)
13. Dr. V. Krishna Rao
14. Dr. Vijay Shanker Tripathi
Journal of Superconducting
NUiCONE 2011 (2nd International Conference on Current Trends in Technology)
SCES 2013 (2nd Students Conference on Engg. and Systems)
SCES 2014 (3rd Students' Conference on Engg. and Systems)
3rd International Conference on Power, Control and Embedded Systems (ICPCES-2014)
SCES 2015 (4th Students' Conference on Engineering and Systems)
International Conference on Emerging Trends in Electrical, Electronics & Sustainable Energy Systems (ICETEESES-16)
ICCCCM-2016 (2nd International Conference on Control Computing Communication and Materials)
UPCON2017 (4th IEEE Uttar Pradesh Section International Conference on Electrical, Computer and Electronics)
INDICON-2017 (14th IEEE India Council International Conference)
Recent Advances in Engineering, Technology and Computational Sciences (RAETCS-2018)
15. Dr. Yogendra Kumar Prajapati
International journal of Journal of Optics
International journal of Progress in Electromagnetic Research
International journal of Optics Communications
International journal of Infrared Physics & Technology
International journal of Sensors & Actuators: B. Chemical
International journal of Optical Fiber Technology
International journal of Engineering, Science and Technology
International journal of Optics Letters
International journal of Silicon

International journal of Physica Scripta
Optical and Quantum Electronics
Applied Physics
JOSA-B
IEEE Sensor Letters

Book(s)/ Book Chapter Authored

Sl. No.	Faculty Name (Author/ Co-author)	Book	Book Chapter	Publisher
1.	Sahu S., Singh H.V., Kumar Basant	Handbook on Multimedia Information Security : Techniques and Applications	Image Processing Based Automated Glaucoma Detection Techniques and Role of De-Noising: A Technical Survey	Springer
2.	Shailesh Kumar, Shashwat Pathak, Basant Kumar	Handbook on Multimedia Information Security : Techniques and Applications	Automated Detection of Eye Related Diseases using Digital Image Processing	Springer
3.	Sahu S., Singh H.V., Kumar Basant	Handbook on Multimedia Information Security : Techniques and Applications	Enhancement and De-Noising of OCT Image by Adaptive Wavelet Thresholding Method	Springer
4.	G. Manikanta, R. A. Mishra	Lecture Notes in Electrical Engineering, Advances in VLSI, Communication and Signal Processing	Full Book	Springer
5.	T. Dubey, R. Shankar & V. Bhadauria	Lecture notes in Electrical Engineering 587 'Advances in VLSI, Communication and Signal Processing	Cross Coupled Bulk Degenerated OTA using Source Follower Auxiliary Pair to Improve Linearity	Springer
6.	D. Dutta, H. Kar, C. Kumar & V. Bhadauria (Eds.)	Lecture notes in Electrical Engineering 587 'Advances in VLSI, Communication, and Signal Processing	Full Book	Springer
7.	Sougata Ghosh and Vijaya Bhadauria	Lecture notes in Electrical Engineering 587 'Advances in VLSI, Communication and Signal Processing	0.5 V Two-Stage Sub-Threshold Fully Differential Miller Compensated OTA using Voltage Combiners	Springer
8.	S. Mishra, D. Shukla, V. Bhadauria & S. K. Gupta	Lecture notes in Electrical Engineering 587 'Advances in VLSI, Communication and Signal Processing	Tuned Universal Filter Design using single Differential Difference Current Conveyor for sub-GHz frequency band	Springer
9.	T. Dubey, A. Kumar & V. Bhadauria	Lecture notes in Electrical Engineering 587 'Advances in VLSI, Communication, and Signal Processing	Highly Linear Source Degenerated OTA with Floating Gate Auxiliary Differential Pair	Springer
10.	Sumit Patra, Sunil Kumar, Swati Verma, A.	Advances in VLSI, Communication and Signal	Design and Implementation of 32-bit MIPS-	Springer

11.	Verma A., Kumar S., Gautam P. R., Kumar A.	Processing Advances in VLSI, Communication and Processing	Signal	Based RISC Processor Stable Energy-Efficient Routing Algorithm for Dynamic Heterogeneous Wireless Sensor Net works	Springer
12.	P. R. Gautam, S. Kumar, A. Verma, T. Rashid, A. Kumar	Advances in VLSI, Communication and Processing	Signal	Localization of Sensor Nodes in WSN Using Area between a Node and Two Beacons	Springer
13.	A. K. Ravat, A. Dhawan M. Tiwari	Advances in VLSI, Communication and Processing	Signal	Noise Cancelation using Adaptive Filter	Springer, Lecture Notes in Electrical Engg. (Vol. 587)
14.	Abhay Vidyarthi and Manish Tiwari	Advances in VLSI, Communication and Processing	Signal	A Survey on H-infinity Control Techniques	Springer, Lecture Notes in Electrical Engg. (Vol. 587)
15.	P. Kumar, P. C. Shrivastava, M. Tiwari, A. Dhawan	Advances in VLSI, Communication and Processing	Signal	Realization of Efficient Architectures for Digital Filters: A Survey	Springer, Lecture Notes in Electrical Engineering (Vol. 587)
16.	Prabhat Chandra, Shrivastava, Prashant Kumar & Manish Tiwari	Advances in VLSI, Communication and Processing	Signal	A brief Survey on Hardware Realization of Two-Dimensional Adaptive Filters	Springer, Lecture Notes in Electrical Engineering
17.	Pritam Keshari Sahoo, Ajay Kumar Yadav, Y. K. Prajapati & R. Tripathi	In Advances in VLSI, Communication and Processing	Signal	Optimum APD Gain Evaluation of FSO System for Inter-binding Laser Communication applications	Springer Singapore
18.	Jitendra Bahadur Maurya, Alka Verma, Y. K. Prajapati	Proceedings of MoSiCom 2020 Series: Lecture Notes in Electrical Engineering, Modelling, Simulation		Plasmonic sensor based Graphene, Black and Blue phosphorous in the visible spectrum	Springer

Lectures Delivered

- Lecture delivered by Dr. Basant Kumar during One Week Faculty Development Program on 'IoT: A Vision, Applications & Future prospective, ECED, United College of Engineering & Management, Naini, Prayagraj on 09/05/2019 entitled IoT applications for E-Health System.
- Lecture delivered by Dr. Santosh Kumar Gupta at Recent trends in VLSI, RF and Wireless Communication, 2019 (RTVRWC-2019), Rajkiya Engineering College Sonbhadra, Uttar Pradesh, India on 04/07/2019 entitled Digital Logic Styles in VLSI Design.
- Lecture delivered by Dr. Santosh Kumar Gupta at Smart Devices and Intelligent Systems (SDIS-2020), Rajkiya Engineering College Sonbhadra, Uttar Pradesh, India on 28/01/2020 entitled Top-Down Approach: Issues and Technology Trends.
- Lecture delivered by Dr. Manish Tiwari at FDP on Smart Devices and Intelligent Systems, Rajkiya Engineering College Sonbhadra on 29/01/2020 entitled an Introduction to Embedded Systems.
- Lecture delivered by Dr. Rajeev Gupta at National workshop on simulation studies of microstrip antenna, circuits and materials, Department of Physics & Electronics Dr. RML Avadh University Faizabad on 01/02/2020 entitled Concept of transmission line and Smith chart.

6. Lecture delivered by Dr. Ram Awadh Mishra at Faculty Development Program (FDP), IERT Allahabad on 17/02/2020 entitled Semiconductor Devices in VLSI design. 02/03/2020 entitled Hands on with LT SPICE simulation Tool.
7. Lecture delivered by Dr. Sanjeev Rai at Faculty Development Program on Recent Trends of Advanced Design Aspects in Electronics Devices and Circuits” from 17-22 February, 2020, Dr. Yatindra Gaurav, HOD, Electronics Engineering Department, IERT Allahabad on 18/02/2020 entitled Emerging Trends in Vlsi Design–Leakage Control & Low Power Design Issues.
8. Lecture delivered by Dr. Haranath Kar at Faculty Development Programme, Department of Electronics Engineering, Engineering Degree Division, IERT, Prayagraj on 19/02/2020 entitled Faults in Digital Circuits.
9. Lecture delivered by Dr. Santosh Kumar Gupta at Recent Trends of Advanced Design Aspects in Electronics Devices and Circuits, Institute of Engineering and Rural Technology, Prayagraj, India on 21/02/2020 entitled Digital Logic Styles.
10. Lecture delivered by Dr. Rajeev Gupta at Workshop on "Concept & Simulation of Electronic Circuits, Department of Electronics & Communication Engineering at BIET, Jhansi on 02/03/2020 entitled Hands on with LT SPICE simulation Tool.
- Invited Lectures Organized**
1. A lecture is delivered by Dr. Santosh Kumar Vishvakarma, Associate Professor, IIT Indore on 02/04/2019 entitled Hardware (ASIC/FPGA) Architecture for Efficient Computing in Artificial Intelligence (AI) Chip.
 2. A lecture is delivered by Prof. S. Jit, Professor, IIT BHU on 04/04/2019 entitled Nano Electron Devices for Sensing Applications.
 3. A lecture is delivered by Dr. G. R. Sinha, Professor, Myanmar Institute of Information Technology, Myanmar on 14/04/2019 entitled Image Processing Tool for Improved Visualization and Analysis of Remotely Sensed Images for Agriculture and Forest Classification.
 4. A lecture is delivered by Dr. G. R. Sinha, Professor, Myanmar Institute of Information Technology, Myanmar on 15/04/2019 entitled CAD based Medical Image Diagnosis and Health Informatics.
 5. A lecture is delivered by Dr. Harshit Agrawal, Assistant Professor, Indian Institute of Technology Jodhpur, INDIA on 30/01/2020 entitled Compact Modelling and Recent Trends in Nanoelectronics.

Events Organized by Department

Sl. No.	Name	Title	From	To
1.	Workshop	Advanced Embedded Systems & Microelectronics (Aesm-2019), ECED, MNNIT Allahabad.	01.04.2019	05.04.2019
2.	Workshop	2 nd National Workshop on Advances in Wireless and Optical Networks, MNNIT Allahabad.	27.05.2019	01.06.2019
3.	Summer Training Program	VLSI Design and Embedded Systems (VDES-2019), MNNIT Allahabad	13.06.2019	12.07.2019
4.	Short Term Training Program	Developing Massive Open Online Courses (MOOCs), MNNIT Allahabad	27.09.2019	01.10.2019
5.	International conference	VCAS 2019 - 2 nd International Conference on VLSI, Communication and Signal Processing, MNNIT Allahabad.	21.10.2019	23.10.2019

Events Attended

1. Dr. Rajeev Gupta attended International Conference on International Conference
 2. Dr Sumit Kumar Jha attended International Conference on Second International Conference
- Surgetica- 2019 at Rennes, France during 17/06/2019 to 18/06/2019.

on, Communication and Signal Processing (VCAS 2019) at MNNIT Allahabad, Prayagraj during 21/10/2019 to 23/10/2019.

Conference on Biotechnological Interventions for Societal Development at MNNIT Allahabad, Prayagraj during 21/02/2020 to 23/02/2020.

3. Dr Sumit Kumar Jha attended International Conference on Biosangam 2020, International

Research Projects Completed/Ongoing

Sl. No.	Principal Investigator /Co investigator(s)	Project Title	Funding Agency	Amount (INR)	Duration
1.	Dr. Basant Kumar (PI)	Design of Neural Network based Pacemaker	DBT, Govt. of India	69.64 Lakhs	Ongoing
2.	Dr. Santosh Kumar Gupta, (PI)	To develop and Test FPGA based low power wireless sensor network with front end and receiver modules	MNNIT Allahabad	02.00 Lakhs	Ongoing
3.	Dr. Yogendra Kumar Prajapati, (Co-PI)	Phosphorene based fiber optic plasmonic sensor for biomedical application	Collaborative Research Scheme Under TEQIP-III (NPIU)	13.32 Lakhs	Ongoing
4.	Dr. Yogendra Kumar Prajapati, (Co-PI)	Investigations on surface plasmon resonance (SPR) based optical sensing with an emphasis on the role of spin waves and magnonics in related materials	SERB	21.00 Lakhs	Ongoing
5.	Dr. Santosh Kumar Gupta, (PI)	Analysis of Various Structures of MTJs for Possible Application in MRAMs and Logic Circuits	CSIR-SRF (vide F. No. 09/1032 (0014) 2K18 EMR -I dated April 17, 2018)	12.60 Lakhs	Ongoing
6.	Dr. P. Karuppanan (Co-PI)	Implementation of fast charging/discharging PHEVs integrated with modern UPS for peak demand reduction in distributed system	CSIR: San. No. 22 (0703)/15/EMR-II dated 23/11/2015	29.25 Lakhs	Ongoing
7.	Dr. Vijaya Bhadauria (PI)	Special Manpower Development Program Chip to System Design (SMDP-C2SD)	Ministry of Electronics and Information Technology (Meity)	15.95 Lakhs	Ongoing
8.	Dr. Santosh Kumar Gupta, (Co-PI)	Special Manpower Development Program Chip to System Design (SMDP-C2SD)	DeiTy, Govt. of India at MNNIT Allahabad	70 Lakh (Approx.)	Ongoing
9.	Dr. Vijay Shanker Tripathi, (PI)	Design and Development of a patch antenna based non-invasive blood sugar monitoring system	Council of Science and Technology, U.P	8.94 Lakhs	Ongoing
10.	Dr. Basant Kumar (Co-PI)	Modeling, Simulation & Development of Smart Active Ankle Foot Orthotic Device for Gait Rehabilitation	Department of Biotechnology (DBT), Govt. of India	70.00 Lakhs	Ongoing
11.	Dr. Yogendra Kumar	Role of graphene and MoS2	Board of Research	24.00 Lakhs	Ongoing

	Prajapati, (PI)	on performance of surface plasmon resonance based sensors: An application to biosensing,	in Nuclear Sciences (BRNS)		
12.	Dr. Yogendra Kumar Prajapati, (Co-PI)	Design and Analysis of Optical Waveguide for Biosensing Application	Collaborative Research Scheme Under TEQIP-III (NPIU)	11.00 Lakhs	Ongoing
13.	Dr. Yogendra Kumar Prajapati, (Co-PI)	project proposal for setup a Optical Communication of the department	Universities and Higher Educational Institutions (FIST)	1.15 Crore	Ongoing
14.	Dr. Rajeev Tripathi	To develop a testbed based on Magnetic Induction (MI) communications for agricultural soil condition monitoring (water concentration, minerals, and toxic chemicals)	Meity, Gol	41.00 Lakhs	Ongoing

Other Relevant Information

1. Dr. Yogendra Kumar Prajapati received Certificate of Honour from Council of Science and Technology, Department of Science and Technology, Government of U.P. under Engg. Students Project Grant Scheme (2018-19) on 05/2019.

10.9 GIS CELL

Vision

To establish an identity in the area of geoinformatics amongst national and international academic and research organizations through knowledge creation, acquisition and dissemination for the benefit of Society and National development.

Mission

To provide quality education and interdisciplinary research leading to M.Tech.and Ph.D. degree in GIS and Remote Sensing, which produces globally acceptable skilled manpower. To generate and disseminate knowledge and technologies essential to the local and global needs in the field of geoinformatics.

Publication in International Journals

1. Yadav, M., Lohani, B., "Identification of trees and their trunks from mobile laser scanning data of roadway scenes", International Journal of Remote Sensing, 09/2019, Published by Taylor & Francis Online. (SCI, IF = 2.493).

2. Ashutosh Kumar Tripathi, Sonam Agrawal and R. D. Gupta, "Cloud enabled SDI architecture: a review", Earth Science Informatics, vol.13, Issue 2, pp.211–231, 02/2020, Published by Springer Nature. (SCI, IF = 1.45).

Publication in International Conferences

1. Ashutosh Kumar Tripathi, Sonam Agrawal and R. D. Gupta, "WPS enabled SDI: an open source approach to provide geoprocessing in web environment", Capacity Building and Education Outreach in Advance Geospatial Technologies and Land Management, Dhulikhel, Nepal, pp.119-126, 12/2019, Published by ISPRS Annals Photogramm. Remote Sens. Spatial Inf. Sci.
2. Dharmendera Kumar Meena, Rajeev Tripathi & Sonam Agrawal, "GIS based multi-parameter optimal path analysis for rural schools", Capacity Building and Education Outreach in Advance Geospatial Technologies and Land Management, Dhulikhel, Nepal, pp.67-74, 12/2019, Published by ISPRS Annals Photogramm. Remote Sens. Spatial Inf. Sci.
3. Kanaya Dutta, Debolina Basu and Sonam Agrawal, "Nocturnal and diurnal trends of surface urban heat island intensity: a seasonal variability analysis for smart urban planning", Capacity Building and Education Outreach in Advance Geospatial Technologies and Land Management, Dhulikhel, Nepal, pp.25-33,

- 12/2019, Published by ISPRS Annals Photogramm. Remote Sens. Spatial Inf. Sci.
4. S. Mahmoodi, Kanaya Dutta, Debolina Basu and Sonam Agrawal, "Understanding link between land surface temperature and landscape heterogeneity: a spatio-temporal and inter-seasonal variability study on Kabul city, Afghanistan", Capacity Building and Education Outreach in Advance Geospatial Technologies and Land Management, Dhulikhel, Nepal, pp.57-65, 12/2019, Published by ISPRS Annals Photogramm. Remote Sens. Spatial Inf. Sci.
 5. Sonam Agrawal and G. B. Khairnar, "Comparative assessment of remote sensing imaging techniques: optical, SAR and LiDAR", Capacity Building and Education Outreach in Advance Geospatial Technologies and Land Management, Dhulikhel, Nepal, pp.1-6, 12/2019, Published by ISPRS Archives Photogramm. Remote Sens. Spatial Inf. Sci.
 6. Devara, M., Tiwari, A., Dwivedi, R., "Multicriteria analysis for landslide inventory mapping using PS-InSAR", Proceedings of IEEE Tenggrass 2019, Kochi, India. 2019.

Reviewer in International Journals and Conferences

Sl. No.	Faculty Name	Journal Name
1.	Mr. Manohar Yadav	Journal of Surveying Engineering IEEE/CAA Journal of Automatica Sinica Journal of Applied Remote Sensing IEEE Transactions on Geoscience and Remote Sensing Journal of Indian Society of Remote Sensing Survey Review
2.	Mr. Ramji Dwivedi	IEEE Transactions on Geoscience and Remote Sensing International Journal of Remote Sensing Remote Sensing Letters Journal of Surveying Engineering Journal of Indian Society of Remote Sensing Current Science Environment Monitoring and Assessment Environmental Sustainability

Book(s)/ Book Chapter Authored

Sl. No.	Faculty Name (Author/ Co-author)	Book	Book Chapter	Publisher
1.	Ashutosh Kr. Tripathi & Sonam Agrawal	Applications of Geomatics in Civil Engineering.	A Conceptual Framework of Public Health SDI.	Springer, Singapore

Invited Lectures Delivered

1. Lecture delivered by Dr. Sonam Agrawal at NRDMS-DST Sponsored 21 Days Training Programme on Geospatial Technologies coordinated by Dr. Sudhir Kumar Singh on 24/05/2019 entitled Catalogue Services-Geonetwork.
2. Lecture delivered by Ms. Sonam Agarwal at NRDMS-DST Sponsored 21 Days Training Programme on Geospatial Technologies, Dr. Sudhir Kumar Singh on 25/05/2019 entitled Introduction to Web-GIS and its Applications.
3. Lecture delivered by Dr. Ramji Dwivedi at NRDMS-DST Sponsored 21 Days Training Programme on Geospatial Technologies coordinated by Dr. Sudhir Kumar Singh on 24/05/2019 entitled Introduction of GPS
4. Dr. Ramji Dwivedi delivered Invited speaker in International Conference Chem Conflux20 organized by Department of Chemical Engineering, MNNIT Allahabad from February 14-16, 2020.

Invited Lectures Organized

1. A lecture is delivered by Dr. Ashok Kumar Singh, Scientist-E, NRDMS, DST on 13/05/2019 entitled An overview of NRDMS programme and DST other initiatives.
2. A lecture is delivered by Dr. Salil Goel, Assistant Professor, Indian Institute of Technology Kanpur on 28/06/2019 entitled Unmanned Aerial Vehicle (UAV) swarms: The next-generation mapping solution.
3. A lecture is delivered by A.O. Univ.-Prof. Dr Guenther Retscher, A.O. Univ.-Prof., Vienna University of Technology, Vienna, Austria on 09/07/2019 entitled Wi-Fi Positioning in Challenging Urban, Transitional and Indoor Environments.

Events Organized by Department

Sl. No.	Name	Title	From	To
1.	Summer Training cum Internship Programme	A Four Week Self-Financed Summer Training cum Internship Programme in Geoinformatics & Civil Engineering (STIPGCE-2019) , MNNT Allahabad	10.06.2019	06.07.2019
2.	InSAR: Theory, Processing and Application	NRDMS, DST sponsored 5 days short term course	12.08.2019	16.08.2019

Research Projects Completed/Ongoing

Sl. No.	Principal Investigator /Co investigator(s)	Project Title	Funding Agency	Amount (INR)	Duration
1.	Dr. Ramji Dwivedi (PI)	Landslide inventory preparation using MT-InSAR	NRDMS, DST	20.44 Lakhs	Ongoing
2.	Dr. Ramji Dwivedi (Co-PI)	Multi-sensor approach for landslide monitoring	NRDMS, DST	36.44 Lakhs	Ongoing
3.	Dr. Ramji Dwivedi (Co-PI)	Multi-Temporal Interferometric SAR (MT-InSAR) studies for near real time landslide monitoring	RESPOND, ISRO	45.43 Lakhs	Ongoing

10.10 DEPARTMENT OF HUMANITIES & SOCIAL SCIENCES

Vision

To be a provider of nationally competitive, high quality skilled human resource in promotion of socio-economic and developmental activities, appropriate to the enrichment of quality of life of the common people, along with achieving the target of sustainable growth.

Mission

To inculcate socio-economic and cultural ethos amongst the budding young professionals by enhancing their competence and efficiency.

List of Laboratories:

List of the UG Laboratory:

1. Language Laboratory

Courses Run by the Department:

1. Master of Social Work (MSW)

List of Ph.D. Thesis Completed

Sl.No.	Name of Student	Reg. No.	Thesis Title	Thesis Supervisor(s)
1.	Mr Aamir Aijaz Syed	2019RHU01	Determinants and Assessment of NPAs in developing and advanced economies: An Empirical study with reference to select countries	Dr. Ravindra Tripathi
2.	Mr Nikhil Yadav	2014RHU01	Price Discovery of Equity Shares in Indian Stock Market: An Empirical Study	Dr. Ravindra Tripathi

of Sensex

Publication in International Journals

1. Mitu Mandal & Rajesh K Shastri, "Transforming Classroom Learning through Artificial Intelligence", International Journal of Innovative Technology & Exploring Engineering, vol.8, Issue 11, pp.551-554, 09/2019, Published by Blue Eyes Intelligence Engineering. (Scopus)
2. Sushil Kumar, Priya Shah, Dr. Ravindra tripathi, "Role of Spirituality in the Treatment of Work Stress and Mental Health. (An Exploratory Empirical Study of Health Assessment)", International Journal of Psychosocial Rehabilitation, pp.1-18, 02/2020, Published by Hampstead Psychological Associates. (Scopus, IF = 0.080)
3. Ananata Narayan, Tauffiq Ahmad and Rajesh Kumar Shastri, "Strategic Decision Making for Harnessing Human Potential in New Economic Era-A Critical Review in context of Indian Business Environment", Journal of Xi'an University of Architecture & Technology, vol.12, Issue 3, pp.3066-3074, 03/2020, Published by Science Press. (Scopus, IF = 3.7)
4. Santosh Kumar Sharma & Mitu Mandal, "Book Review: Leiyu Shi, Managing Human Resources in Health Care Organizations", FIIB Business Review, vol.9, Issue 1, pp.23-24, 03/2020, Published by Sage.

Reviewer in International Journals and Conferences

Sl. No.	Faculty Name	Journal Name
1.	Dr. Jyotsana Sinha	Daath Voyage: An International Journal of Interdisciplinary Studies in English.

Book(s)/ Book Chapter Authored

Sl. No.	Faculty Name (Author/ Co-author)	Book	Book Chapter	Publisher
1.	Soni Joseph	Multimedia as a Pedagogic Tool in Teacher Education	--	LAP Lambert Academic Publishing

Events Attended

1. Dr. Mitu Mandal attended Workshop on Applied Research Methodology in Social Sciences at MNNITA on/during 17/06/2019 to 23/06/2019.

Research Projects Completed/Ongoing

Sl. No.	Principal Investigator /Co investigator(s)	Project Title	Funding Agency	Amount (INR)	Duration
1.	Dr. Ravindra Tripathi (PI)	Strategies for Development of Handicrafts Sector in India: An Empirical Study of Handicrafts Sector in Uttar Pradesh	ICSSR, New Delhi	3.00 Lakhs	Ongoing

10.11 DEPARTMENT OF MATHEMATICS

Vision

Achieving excellence in Teaching–Learning and Research among National and international academic and research organizations to nurture mathematics for engineering and as an independent science.

Mission

Mathematics department will achieve its vision by offering well–balanced curriculum to acquire professional competencies and transferable skills bringing innovations in Teaching-Learning process through effective content delivery and appropriate assessment methods catalyzing the research activities of both faculty members and students through research projects etc.

List of Ph.D. Thesis Completed

Sl.No.	Name of Student	Reg. No.	Thesis Title	Thesis Supervisor(s)
1.	Mr. Atul Kumar Tiwari	2014RMA53	A study on group-invariant solutions of nonlinear fluid problems	Dr. Mukesh Kumar
2.	Mr. Dig Vijay Tanwar	2015RMA04	On lie symmetries and invariant solutions of nonlinear partial differential equations	Dr. Mukesh Kumar
3.	Ms. Deepika Agarwal	2016RMA53	A study on sum of linear fractional and fuzzy-valued linear fractional optimization problems	Dr. Pitam Singh
4.	Mr. Atul Kumar Ray	2015RMA02	Homotopy simulations on convective flow of non-newtonian fluids	Dr. Buddakkagari Vasu
5.	Ms. Sneha Jaiswal	2015RMA03	A Study On Immiscible Fluids Flow through Porous Media	Dr. Pramod Kr. Yadav
6.	Ms. Sonika Singh	2014RMA52	A Study of NTRU Lattice Based Cryptography	Dr. Sahadeo Padhye

Publication in International Journals

- Surabhi Tiwari; Pankaj Kumar Singh, "An approach of proximity in rough set theory", *Fundamenta Informaticae*, vol.166, Issue 3, pp.251-271, 04/2019, Published by IOS Press. (SCI, IF = 1.204)
- Mukesh Kumar and Dig Vijay Tanwar, "On Lie symmetries and invariant solutions of (2+1)-dimensional Gardner equation", *Communications in Nonlinear Science and Numerical Simulation*, vol.69, pp.45-57, 04/2019, Published by Elsevier. (SCI, IF = 4.115)
- B. Vasu and Atul Kumar Ray, "Numerical Study of Carreau Nanofluid Flow past Vertical Plate with the Cattaneo Christov Heat Flux Model", *International Journal of Numerical Methods for Heat and Fluid Flow*, vol.29, Issue 2, pp.702-723, 04/2019, Published by Emerald Publisher. (SCI, IF = 2.45)
- G. Nath, P. K. Sahu, S. Chaurasia, "Self-similar solution for the flow behind an exponential shock wave in a rotational axisymmetric non-ideal gas with magnetic field", *Chinese Journal of Physics*, vol.58, pp.280-293, 04/2019, Published by Elsevier. (SCI, IF = 2.638)
- Yadav, Pramod Kumar, Singh, P., Tiwari, A. and Deo, S., "Stokes flow through a membrane built up by non-homogeneous porous cylindrical particles", *Journal of Applied Mechanics and Technical Physics*, vol.60, Issue 5, pp.816-826, 04/2019, Published by Springer publisher. (SCI, IF = 0.555)
- Yadav, Pramod Kumar, Jaiswal, Sneha, Puchakatta, Jaikanth Yadav, Filippov, A N, "Poiseuille Flow of Micropolar-Newtonian Fluid through Concentric Pipes Filled with Porous Medium", *Colloid Journal*, vol.82, Issue 3, pp.333-341, 05/2020, Published by Springer. (SCI, IF = 0.862)
- Yadav, Pramod Kumar, "Influence of magnetic field on the Stokes flow through porous spheroid: Hydrodynamic permeability of a membrane using cell model technique", *International Journal of Fluid Mechanics Research*, vol.47, Issue 3, pp.273-290, 06/2020, Published by Begell House. (Scopus)
- Yadav, Pramod Kumar, Tiwari, A, Singh, P., "Motion through spherical droplet with non-homogenous porous layer in spherical container", *Applied Mathematics and Mechanics (English Edition)*, vol.41, Issue 7, pp.1069-108, 06/2020, Published by Springer. (SCI, IF = 2.017)
- Swati Rawal and Sahadeo Padhye, "Cryptanalysis of ID Based Proxy-Blind Signature Scheme", *ICT Express*, 06/2019, Published by Elsevier. (Scopus, IF = 1.4)
- G. Nath, M. Dutta, R. P. Pathak, "Exact similarity solution for the propagation of spherical shock wave in a van der Waals gas with azimuthal

- magnetic field, radiation heat flux, radiation pressure and radiation energy under gravitational field", Proceedings of the National Academy of Sciences, India Section A: Physical Sciences, 06/2019, Published by Springer. (SCI, IF=0.921)
11. G. Nath, "Magnetogasdynamic shock waves in a rotating axisymmetric non-ideal gas with increasing energy, conductive and radiative heat-fluxes", Indian Journal of Physics, pp.1-12, 06/2019, Published by Springer. (SCI, IF=1.407)
 12. Rubi Arya, Pitam Singh, "Fuzzy efficient iterative method for multi-objective linear fractional programming problems", Mathematics and Computers in Simulations, vol.160, pp.39-54, 06/2019, Published by Elsevier. (SCI, IF=1.620)
 13. Mukesh Kumar and Dig Vijay Tanwar, "Lie symmetry reductions and dynamics of solitary wave solutions of breaking soliton equation", International Journal of Geometric Methods in Modern Physics, vol.16, Issue 7, pp.1950-110, 07/2019, Published by World Scientific Publishing Company. (SCI, IF = 1.287)
 14. Mukesh Kumar, Atul Kumar Tiwari and Raj Kumar, "More solutions of coupled Whitham-Broer-Kaup equations", Proceedings of the National Academy of Sciences, India Section A: Physical Science, vol.89, Issue 4, pp.747-755, 10/2019, Published by Springer. (SCI, IF=0.921)
 15. Mukesh Kumar and Dig Vijay Tanwar, "Lie symmetries and invariant solutions of (2+1)-dimensional breaking soliton equation", Pramana – Journal of Physics, vol.94, Issue 23, 01/2020, Published by Springer. (SCI, IF = 1.688)
 16. Sachin Kumar, Mukesh Kumar, Dharmendra Kumar, "Computational soliton solutions to (2+1)-dimensional Pavlov equation using Lie symmetry approach", Pramana – Journal of Physics, vol.94, Issue 20, pp.--, 01/2020, Published by Springer. (SCI, IF = 1.688)
 17. Majid Bayat, Zahra Zare Jousheghani, Ashok Kumar Das, Pitam Singh, Saru Kumari, Mohammad Reza Aref, "A lightweight Privacy-preserving Authenticated Key Exchange Scheme for Smart Communications", The ISC International Journal of Information Security, vol.11, Issue 2, pp.113-128, 07/2019,
 18. Jaiswal, S. and Yadav, Pramod Kumar, "A micropolar-Newtonian blood flow model through a porous layered artery in the presence of a magnetic field", Physics of Fluids, vol.31, pp.71901(1-14), 07/2019, Published by AIP Publishing. (SCI, IF = 3.514)
 19. Xialiang Wang, Liang Bai, Brandon Mausler, Pitam Singh, "A Novel Conditional Anonymity Scheme for Vehicular Communication Networks", International Journal of Communication System, pp.1-14, 09/2019, Published by Wiley. (SCI, IF=1.278)
 20. Mukund Pratap Singh, Pitam Singh, Priyamvada Singh, "Fuzzy AHP based Multi-criteria Decision Making Analysis for Route Alignment Planning using Geographical Information System (GIS)", Journal of Geographical Systems, vol.21, Issue 3, pp.395-432, 09/2019, Published by Springer. (SCI, IF = 1.028)
 21. Atul Kumar Ray, B Vasu, Anwar Beg, Rama Gorla, PVSN Murthy, "Homotopy Semi-Numerical Modeling of non-Newtonian Nanofluid Transport External to Multiple Geometries Using a Revised Buongiorno Model", Inventions; A special issue Recent Trends in Nanofluids, vol.4, Issue 4, pp.54, 09/2019, Published by MDPI AG. (Scopus)
 22. G. Nath, "Propagation of strong cylindrical shock wave in a self-gravitating rotational axisymmetric mixture of small solid particles and perfect gas with density varying exponentially", Acta Astronautica, vol.162, pp.447-460, 09/2019, Published by Elsevier. (SCI, IF = 2.83)
 23. Swati Srivastava, Manoj Kumar, Akanksha Verma, "An Elliptic Interface Problem: A Review", Applied Mathematics & Information Sciences Letters: An International Journal, vol.7, Issue 3, pp.51-59, 09/2019, Published by Natural Science Publishing. (Scopus)
 24. Akanksha Verma, Manoj Kumar, "Numerical Solution of Lane-Emden type Equations Using Multilayer Perceptron Neural Network Method.", International Journal of Applied and Computational Mathematics, vol.141, Issue 5, 10/2019, Published by Springer. (Scopus)
 25. B. Vasu, Ankita Dubey and O. Anwar Bég, "Finite Element Analysis of Non-Newtonian

- Magneto-Hemodynamic Flow Conveying Nano-Particles through a Stenosed Coronary Artery", *Heat Transfer-Asian Research*, vol.49, pp.33-66, 10/2019, Published by Wiley. (SCI)
26. S. Jaiswal and Pramod Kumar Yadav, "Flow of Micropolar-Newtonian fluids through the composite porous layered channel with movable interfaces", *Arabian Journal for Science and Engineering*, vol.45, pp.921–934, 10/2019, Published by Springer publisher. (SCI, IF=1.711)
 27. D. Yu. Khanukaeva, Anatoly Filippov, Pramod Kumar Yadav, Ashish Tiwari, "Creeping flow of micropolar fluid through a swarm of cylindrical cells with porous layer (membrane)", *Journal of Molecular Liquids*, vol.294, pp.1-8 (11155, 11/2019, Published by Elsevier publishers. (SCI, IF = 5.065)
 28. Yadav, Pramod Kumar, Sneha Jaiswal, Jaikanth Yadav Puchakatla, "Micropolar fluid flow through the membrane composed of impermeable cylindrical particles coated by porous layer under the effect of magnetic field", *Mathematical Methods in the Applied Sciences*, vol.43, Issue 4, pp.1925-1937, 11/2019, Published by John Wiley & Sons, Ltd. (SCI, IF = 1.626)
 29. G. Nath, S. Singh, "Cylindrical ionizing shock waves in a self-gravitating gas with magnetic field: Power series method", *J Astrophys Astron*, vol.40, Issue 6, pp.47, 12/2019, Published by Springer. (SCI, IF = 1.273)
 30. Rupali Pandey, Manoj Kumar , Vivek Kumar Srivastava, "Numerical Studies of Blood Flow in Left Coronary Model", *Recent Advances in Computer Science and Communications*, pp.DOI : 10.2, 12/2019, (Scopus)
 31. Atul Kumar Ray and B Vasu, "Influence of Chemically-Radiative Nanoparticles on Flow of Maxwell Electrically Conducting Fluid over a Convectively Heated Exponential Stretching Sheet", *World Journal of Engineering*, vol.16, Issue 6, pp.791-805, 12/2019, Published by Emerald Publishers. (Scopus)
 32. G. Nath, S. Singh, "Approximate analytical solution for shock wave in rotational axisymmetric perfect gas with azimuthal magnetic field: Isothermal flow", *J. Astrophys Astron*, vol.40, Issue 6, pp.50, 12/2019, Published by Springer. (SCI, IF = 1.273)
 33. B. Vasu, Rama S. R. Gorla, PVSN Murthy, O. Anwar Bég, "Entropy analysis on Convective Film Flow of Power-law Fluid with Nanoparticles along an Inclined Plate", *Journal of Applied Mechanics and Technical Physics*, vol.60, Issue 5, pp.827-841, 12/2019, Published by Springer. (SCI, IF=0.649)
 34. Yadav, Pramod Kumar, Puchakatla, Jaikanth Yadav, Jaiswal, Sneha, "An Analytical Solution of Micropolar-Newtonian Fluid Flow Through Annular Porous Regions", *Natl. Acad. Sci. Lett.*, pp.1-6, 01/2020, Published by Springer. (SCI, IF = 0.416)
 35. Manoj Kumar, Parul, "Numerical Simulation of Van der Pol Equation Using Multiple Scales Modified Lindstedt Poincare Method", *Proceedings of the National Academy of Sciences, India Section A: Physical Sciences*, pp.https://do, 01/2020, Published by Springer. (SCI, IF = .921)
 36. Atul Kumar Ray, B Vasu, P.V.S.N. Murthy and R.S.R. Gorla, "Non-Similar Solution of Eyring-Powell Fluid Flow and Heat Transfer with Convective Boundary Condition: Homotopy Analysis Method", *International Journal of Applied and Computational Mathematics*, vol.6, Issue 16, pp.1-22, 01/2020, Published by Springer. (Scopus)
 37. G. Nath, "Propagation of shock wave in a rotational axisymmetric ideal gas with density varying exponentially and azimuthal magnetic field: Isothermal flow", *Indian Journal of Physics*, pp.na, 02/2020, Published by Springer. (SCI, IF = 1.407)
 38. Shagun Panghal, Manoj Kumar, "Optimization free Neural Network approach for solving ordinary and partial differential equations", *Engineering with Computers*, 02/2020, Published by Springer. (SCI, IF = 3.938)
 39. Pitam Singh, Deepika Agarwal, Beepak Bhati, R. N. Mohapatra, "A Branch-Bound Cut Technique for Non-linear Fractional Multi-objective Optimization Problems", *International Journal of Applied and Computational Mathematics*, vol.6,

- pp.1-17, 02/2020, Published by Springer. (Scopus)
40. Surabhi Tiwari, Pankaj Kumar Singh, "Cech Rough Proximity Spaces", *Mathematiki Vesnik*, vol.72, Issue 1, pp.6-16, 02/2020, Published by Mathematical Society of Serbia. (Scopus, IF = 0.37)
 41. Umesh, Manoj Kumar, "Numerical solution of singular boundary value problems using Advanced Adomian decomposition method", *Engineering with Computers*, 02/2020, Published by Springer. (SCI, IF = 3.938)
 42. Ankita Dubey, B. Vasu, O. Anwar Beg, Rama S R. Gorla and Ali Kadir, "Computational fluid dynamic simulation of two-fluid non-Newtonian nano-hemodynamics through a diseased artery with a stenosis and aneurysm", *Computer Methods in Biomechanics and Biomedical Engineering*, vol.23, Issue 8, pp.345-371, 02/2020, Published by Taylor and Francis. (SCI, IF = 1.502)
 43. Sonika Singh and Sahadeo Padhye, "Identity based Blind Signature Scheme over NTRU Lattices", *Information Processing Letters*, vol.155, pp.1-3 (10589), 03/2020, Published By Elsevier. (SCI, IF = 0.69)
 44. Jaiswal, S. & Yadav, Pramod Kumar, "Influence of magnetic field on the Poiseuille flow of immiscible Newtonian fluids through highly porous medium", *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, vol.42, pp.1-159(188), 03/2020, Published by Springer. (SCI)
 45. G. Nath, S. Singh, "Similarity solutions using Lie-group theoretic method for cylindrical shock wave in a self-gravitating perfect gas with axial magnetic field: Isothermal flow", *The European Physical Journal Plus*, vol.135, Issue 3, pp.316, 03/2020, Published by Elsevier. (SCI, IF = 3.228)
 46. B Vasu, R.S.R. Gorla, P.V.S.N. Murthy, V. R. Prasad, O. Anwar Bég, and S. Siddiq, "MHD Free Convection-Radiation Interaction in a Porous Medium-Part I: Numerical Investigation", *Int. J. Applied Mechanics and Engineering*, vol.25, Issue 1, pp.198-218, 03/2020, Published by Sciendo. (Scopus)
 47. Ouyang Zhao, Xuchong Liu, Xiong Li, Pitam Singh, Fan Wu, "Privacy-preserving data aggregation scheme for edge computing supported vehicular ad hoc networks", *Emerging Telecommunications Technologies*, pp.1-16, 03/2020, Published by Wiley. (SCI, IF = 1.594)

Publication in International Conferences

1. Ashish Khare, B. Reddy Mounika and B. Vasu, "On Retrieval of Nearly Identical Video Clips with Query Frame", *International Conference on Automation, Computational & Technology Management (ICACTM-2019)*, Amity University, London Campus, pp.116-121, 04/2019, Published by IEEE.
2. Srinivasarao Thota, Shiv Datt Kumar, "Maple Implementation of a Reduction Algorithm for Differential-Algebraic Systems with Variable Coefficients", *International Conference on Recent Trends in Engineering & Technology and the Quest for Sustainable Development (ICRTETQSD 2019)*, Institute of Technology, Ambo University, Ethiopia, 05/2019, Published by Institute of Technology, Ambo University, Ethiopia (Presented by Srinivasarao Thota).
3. Ankita Dubey, B. Vasu, R.S.R.Gorla, M. Jawid and O. Anwar Bég, "Biomagnetic nano-rheo-pharmaco-dynamic transport in a stenotic artery: targeted drug delivery simulation", *IIER – 767th International Conference on Recent Innovations in Engineering and Technology (ICRIET)*, Doha, Qatar, 12/2019, Published by ICRIET.
4. G. Nath, "Flow behind an exponential cylindrical shock in a rotational axisymmetric mixture of small solid particles of micro size and non-ideal gas with conductive and radiative heat fluxes", *30th General Assembly of International Astronomical Union*, Vienna, Austria, August 20-31, 2018, Austria, August 20-31, 2018, pp.14(A30) 41, 03/2020, Published by Cambridge University Press: 03 March 2020.

Reviewer in International Journals and Conferences

Sl. No.	Faculty Name	Journal Name
1.	Dr. Buddakkagari Vasu	International Journal of Applied Mathematics and Mechanics

- Journal of Applied Fluid Mechanics
Open Thermodynamics Journal
Journal of Computational Design and Engineering
International Journal of Numerical Methods for Heat and Fluid Flow
Proceedings of the National Academy of Sciences, India Section A:
Physical Sciences
International Journal of Fluid Mechanics Research
Ain Shams Engineering Journal
International Conference on Computational Heat and Mass Transfer 2015
Indian Journal of Physics
Journal of Nanofluids
Neural Computing and Applications
Thermal Science and Engineering Progress
Heat and Mass Transfer
International Journal Heat and Mass Transfer
Journal of Thermophysics and Heat Transfer
Proceedings A
Scientific Reports
2. Dr. Gorakh Nath
- Journal of Applied Fluid Mechanics
Physics of Fluid
Ain Shams Engineering Journal
Acta Astronautica
Mathematical Method in the Applied Sciences
ICACCP 2017
Journal of Astrophysics and Astronomy
Astrophysics and Space Science
Geophysical and Astrophysical Fluid Dynamics
Computer & Mathematics with Application
International Journal of Nonlinear Sciences and Numerical Simulation
Journal of Applied Mathematics
International Journal Appl. Comput. Math
Shock Waves
Journal of Applied Fluid Mechanics
Mathematical Modeling and Analysis
Engineering Science and Technology, an International Journal
Mathematical Method in the Applied Sciences
Chinese Journal of Physics
Acta Astronautica
Chinese Journal of Physics
Journal of the Brazilian Society of Mechanical Science and Engineering
Journal of Differential Equation and Dynamical System
Chinese Journal of Physics
Proc. Natl. Acad. Sci., India, Sec. A: Phys. Sci.
Journal of Applied Fluid Mechanics
Zeitschrift für Naturforschung A A Journal of Physical Sciences
Plasma Physics
Mathematical Modelling of Engineering Problems
Advances in Differential Equation
International Journal of Pressure Vessels and Piping
Commun Nonlinear Sci Numer Simulat

3. Dr. Mukesh Kumar
Nonlinear Dynamics
Journal of Applied Fluid Mechanics
Indian Journal of Pure & Applied Physics (IJPAP)
Journal of Mathematical analysis and Applications
The European Physical Journal Plus
Commun Nonlinear Sci Numer Simulat
Computers & Mathematics with Applications
International Journal of Applied Mathematics and Mechanics
International Journal of Theoretical Physics
Waves in Random and Complex Media
Advances in Applied Mathematics and Mechanics
Applications and Applied Mathematics
Mathematical Methods in Applied Sciences
Proceedings of the National Academy of Sciences, India Section A:
Physical Sciences
Chinese Journal of Physics
Nonlinear Engineering – Modeling and Applications
Optical and Quantum Electronics
4. Dr. Pitam Singh
IEEE Access
IEEE Transactions on Engineering Management.
Opsearch
International Journal of Applied and Computational Mathematics
Iranian Journal of Fuzzy Systems
IEEE Transactions on Fuzzy Systems
5. Dr. Pramod Kr. Yadav
Meccanica
National Academy Science Letters
Mathematical Methods in the Applied Sciences
"Mathematical modelling in Colloid Science"
Microsystem Technologies (MITE)
Special Topics & Reviews in Porous Media - An International Journal
Transport in porous media
Arabian Journal for Science and Engineering (AJSE)
Propulsion and Power Research
Journal of the Taiwan Institute of Chemical Engineers
Journal of the Brazilian Society of Mechanical Sciences and Engineering
Propulsion and Power Research
Differential Equations and Dynamical Systems
Theoretical and Computational Fluid Dynamics
6. Dr. Prashanta Majee
3rd International Conference on Soft Computing and Mathematical Modelling 2019
7. Dr. Sahadeo Padhye
Information Security Journal: A Global Perspective
Journal of Internet Technology
Transactions on Emerging Telecommunications Technologies
International Journal of Computer Mathematics: Computer Systems Theory
International Journal of Communication system
International Journal of Information security Science
National workshop on cryptography
Asia Security and Privacy Conference
IEEE Access
International Conference on Networks and Cryptography (NETCRYPT)

8. Dr. Shiv Datt Kumar 2019), June 14-16, Jawaharlal Nehru University, New Delhi
 Mathematical Reviews/MathSciNet (Reviwer No. - 098594).
 International Journal of Information Technology & Decision Making
 Turkish Journal of Mathematics
 Communications in Algebra
 Springer Plus, SCI Joournal
 National Academy Science Letters
 Journal of Computational Science
 Italian journal of pure and applied Mathematics
 Mathematical Reviews
9. Dr. Manoj Kumar Mathematical Methods in the Applied Sciences
 Journal of Applied Mathematics and Computing (JAMC)
 Journal of Computational and Applied Mathematics
 Neural Computing and Applications (NCAA)
 Engineering with Computers
 International Journal of Modeling, Simulation, and Scientific Computing
10. Dr. Supriya Yadav Students Conference on Engineering and Systems (SCES-2019)

Book(s)/ Book Chapter Authored

Sl. No.	Faculty Name (Author/ Co-author)	Book	Book Chapter	Publisher
1.	Swati Rawal and Sahadeo Padhye	Information Security and Cryptology, Lecture Notes in Computer Science (LNCS)	Untraceability of partially blind signature scheme over lattices	Springer Nature Switzerland
2.	Ankita Dubey and B. Vasu	Mathematical modelling and scientific computations and application	Finite Element Analysis of MHD Blood Flow in Stenosed Coronary Artery with the Suspension of Nanoparticles	Springer
3.	Akanksha Verma, Manoj Kumar	Multilayer Perceptron Theory & Applications	Multilayer Perceptron Artificial Neural Network: A Review	Nova Science Publishers, Inc.

Invited Lectures Delivered

- Lecture delivered by Dr. Pramod Kumar Yadav at National Conference on Relevance of Applied Sciences to Emerging Technology' (ROASET-2019), Department of Applied Sciences & Humanities, Ajay Kumar Garg Engineering College (AKGEC) on 24/04/2019 entitled Mathematical modelling on fluid flow through porous membrane.
- Lecture delivered by Dr. Shiv Datt Kumar at DST sponsored INSPIRE Science Camp, Prayag Institute of Technology & Management, Karchhana, Allahabad on 28/04/2019 entitled Fundamental Concepts of Number Theory and Applications.
- Lecture delivered by Dr. Surabhi Tiwari at Short Term Course (STC) on "Numerical Techniques for Scientific Computations, (NTSC-2019),
- Lecture delivered by Dr. Sahadeo Padhye at National Conference on Recent Trends in Applied and Computational Mathematics, July 20-21, 2019, Department of Mathematics, NIT Raipur on 21-07-2019 entitled Cryptography from Classical to Modern.
- Lecture delivered by Dr. Shiv Datt Kumar at DST INSPIRE programme, Savitri Mahavidyalay, Sonai, Karchhana, Prayagraj on 14/11/2019 entitled Important concepts of Number Theory with Applications.
- Lecture delivered by Dr. Shiv Datt Kumar at International Conference on Recent Advances in Algebra, Analysis and Applications during

- December 20-22, 2019, Department of Mathematics, Mohanlal Sukhadia University, Udaipur, Rajasthan on 22/12/2019 entitled Symbolic Rees Algebra of Modules.
7. Lecture delivered by Dr. Gorakh Nath at STC Jointly organized by Department of Applied Sciences and Humanities, KNIT, Sultanpur, Department of Mathematics, MNNIT Allahabad sponsored by TEQIP-III. 15-19 July 2019, Course Coordinator of KNIT on 07/2019 entitled Numerical Solution of ODE's.
 8. A lecture is delivered by Dr. Manoj Kumar at International Conference on Applied Mathematics in Science and Engineering (AMSE -2019), Siksha 'O' Anusandhan Deemed to be University Bhubaneswar-751030, ODISHA, India on 24/10/2019 entitled Numerical Methods.
 9. A lecture is delivered by Dr. Manoj Kumar at International Conference on Applicable Mathematics (Theme: Network Sciences)(ICAM 2019), Department of Mathematics, Ramanujan College, University of Delhi DELHI on 20/12/2019 entitled Computational Techniques.
 10. A lecture is delivered by Dr. Manoj Kumar at International Conference on Mathematical Techniques and Applications (ICMTA-2020), Department of Mathematics, Faculty of Engineering and Technology, SRM Institute of Science and Technology Kattankulathur – 603203 Tamilnadu, India on 31/01/2020 entitled ADM.
 11. A lecture is delivered by Dr. Manoj Kumar at International conference on "Renewable Energy Integration Into Smart Grids : A Multidisciplinary Approach to Technology Modelling and Simulation Renewable Energy Integration into Smart Grids : A Mul, C.V. Raman College of Engineering Bhubaneswar - 752054, ODISHA (India) on 14/02/2020 entitled Mathematical Modeling.

Events Organized by Department

Sl. No.	Name	Title	From	To
1.	Short-Term course	One week short-Term course on "Application of Matlab in Science and Technology", MNNIT Allahabad	01.04.2019	05.04.2019
2.	Short Term Course	Short Term Course (STC) on "Numerical Techniques for Scientific Computations, (NTSC-2019), Kamla Nehru Institute of Technology (KNIT), Sultanpur	15.07.2019	19.07.2019

Events Attended

1. Dr. Shiv Datt Kumar attended National conference on Commutative Algebra and Algebraic Geometry (CAAG) at Indian Institute of Science Education and Research Bhopal during 06/07/2019 to 07/07/2019.
2. Dr. Supriya Yadav attended Faculty Development Program on mathematical modelling and analysis on continuum mechanics at IIT BHU, Varanasi during 09/09/2019 to 15/09/2019.
3. Dr. Shiv Datt Kumar attended Short Term Training Program on Developing Massive Open Online Courses (MOOCs) organised by ECED and SMS Department sponsored by TIQUIP-III at MNNIT Allahabad during 27/09/2019 to 01/10/2019.

Research Projects Completed/Ongoing

Sl. No.	Principal Investigator /Co investigator(s)	Project Title	Funding Agency	Amount (INR)	Duration
1.	Dr. Buddakkagari Vasu (PI)	Mathematical Simulations of Nanoparticles as Drug Carrier on Blood Flow through a Stenotic Artery	SERB	22.80 Lakhs	Ongoing
2.	Dr. Pramod Kumar Yadav, (Co-PI)	Flow through a membrane modeled of porous cylindrical particles using Particle-in-cell approach	DST, New Delhi	12.86 Lakhs	Ongoing

3.	Dr. Pramod Kumar Yadav, (PI)	Hydrodynamics modelling of Complex porous membranes and their applications in engineering sciences	SERB, Govt. of India	8.08 Lakhs	Ongoing
4.	Dr. Manoj Kumar (PI)	Numerical Algorithms Based on Neural Network for the Solution of Boundary Value Problems	NBHM	13.64 Lakhs	Ongoing
5.	Dr. Manoj Kumar (PI)	Numerical studies of effects on human-heart due to growing blockage in coronary artery	DBT	21.73 Lakhs	Ongoing

10.12 DEPARTMENT OF MECHANICAL ENGINEERING

Vision

To be a centre of excellence in Mechanical Engineering education and research for the benefit of global society and humanity.

Mission

To educate and develop human resources for industry, academia and research and development. To push the frontiers of search skills in graduates and develop new paradigms in research for PG and Ph. D. programs. To develop products, processes and technology for the benefit of the society in collaboration with industry and commerce. To enhance the efforts for preparing job ready engineers and competent entrepreneurs.

List of Laboratories

1. Automobile Engineering Laboratory.
2. Computational and Industrial Engineering Laboratory.
3. Computer Aided Design Laboratory.
4. Computer Aided Manufacturing Laboratory.
5. Heat and Mass Transfer Laboratory.
6. Instrumentation Laboratory.
7. Internal Combustion Engine Laboratory.
8. Machine Elements Laboratory.
9. Machine Tools and Advanced Machining Laboratory.
10. Materials Characterization Laboratory.
11. Mechanical System Design Laboratory.
12. Mechatronics and Control Laboratory.

List of Ph.D. Thesis Completed

Sl.No.	Name of Student	Reg. No.	Thesis Title	Thesis Supervisor(s)
1.	M. Pallvita Yadava	2014RME12	Experimental Modeling and Multi-Objective Optimization of Traveling Wire	Dr. Audhesh Narain

13. Metrology Laboratory.
14. Product Design and Manufacturing Laboratory.
15. Refrigeration and Air Conditioning Laboratory.
16. Steam Engine Laboratory.
17. Solar Energy Laboratory.

Courses Run By Department:

1. B.Tech. (Mechanical Engineering)
2. B.Tech. (Production and Industrial Engineering)
3. M.Tech. (Design Engineering)
4. M.Tech. (Production Engineering)
5. M.Tech. (Computer Aided Design and Manufacturing)
6. M.Tech. (Product Design and Development)
7. M.Tech. (Thermal Engineering)
8. Ph.D. programmes

Courses in which students were admitted during 04/2019 - 03/2020 :

1. B.Tech. (Mechanical Engineering).
2. B.Tech. (Production and Industrial Engineering).
3. M.Tech. (Design Engineering).
4. M.Tech. (Production Engineering).
5. M.Tech. (Computer Aided Design and Manufacturing).
6. M.Tech. (Product Design and Development)
7. M.Tech. (Thermal Engineering).
8. Ph.D. programmes.

			Electrochemical Spark Machining of Polymer Nanocomposites	
2.	Mr. Prashant Kumar Singh	2013RME56	Studies on erosion wear and oxidation behaviour of thermal spray coatings on boiler steels and structural steel	Dr. Suryanarayan B. Mishra
3.	Mr. Manish Sharma	2013RME07	Power Generation using Solar based Organic Rankine Cycle	Dr. Rahul Dev
4.	Mr. Sudhir Kumar Mishra	2013RME05	Synthesis and characterization of alumina functionally graded nanocomposite	Dr. Rabindra Kr. Patel Dr. Dharmendra Kr. Shukla
5.	Mr. Arvind Katyayn	2013RME02	Modelling and Control of Conical Magnetic Bearing	Dr. Praveen Kumar Agarwal
6.	Mr. Deepanshu Srivastava	2013RME04	Development of an Interface for Automatic Generation of STEP-NC (AP238) Code for Milled Features	Dr. Venkateswara Rao Komma

Publication in International Journals

- M. Mukhopadhyay, P. K. Kundu, "Evaluating Application Potentiality of Unconventional Fluids for Grinding Ti-6Al-4V using Alumina Wheel", *Materials and Manufacturing Processes*, vol.34, Issue 10, pp.1151–115, 05/2019, Published by Taylor and Francis Online. (SCI , IF = 3.35)
- Bishan Raj Rai, Manish Mukhopadhyay and Pranab Kumar Kundu, "Evaluating the grinding ratio and surface quality of Ti-6Al-4V under varying grinding pass count and depth of cut", *Journal of Physics: Conference Series*, vol.1240, pp.012143, 07/2019, Published by IOP Science. (Scopus)
- M. Mukhopadhyay, P. K. Kundu, "Improving Grindability of Ti-6Al-4V using an Economic and Environmental Friendly Drop by Drop Delivery Technique", *Material Today: Proceedings*, vol.27, Issue 3, pp.2081-2085, 10/2019, Published by Elsevier. (Scopus)
- J. C. Mohanta, AnupamKeshari, "A knowledge based fuzzy-probabilistic roadmap method for mobile robot navigation", *Applied Soft Computing*, Volume 79, 2019, Pages: 391-409, (DOI:<https://doi.org/10.1016/j.asoc.2019.03.055>), Elsevier, SCI, Impact Factor: 5.472 (Available online on April 8, 2019).
- A. Singh, S. Kumar, R. Dev, "Studies on cocopeat, sawdust and dried cow dung as desiccant for evaporative cooling system", *Renewable Energy*, vol.142, pp.295-303, 04/2019, Published by Elsevier. (SCI, IF = 5.4)
- K. Tewari, R. Dev, "Thermal Model and Performance Analysis of PVT Non-metallic Solar Water Heater", *Journal of Energy and Environmental Sustainability*, vol.7, Issue 2019, pp.63-70, 04/2019, Published by International Society for Energy, Environment and Sustainability (ISEES).
- Pallvita Yadav, Vinod Yadava and Audhesh Narayan, "Experimental Investigation for Performance Study of Wire Electrochemical Spark Cutting of Silica Epoxy Nanocomposites", *Silicon*, pp.1-11, 05/2019, Published by Springer. (SCI, IF = 1.21)
- Alka Bharti, Abhishek Mishra & Bireswar Paul, "Thermal performance analysis of small-sized solar parabolic trough collector using secondary reflectors", *International Journal of Sustainable Energy*, 05/2019, Published by Taylor & Francis. (SCI, IF = 0.43)
- K. Guru, T. Sharma, S. B. Mishra, K. K. Shukla, "Effect of temperature on elastic properties of CNT reinforced nanocomposites", *Materials Research Express*, vol.6, Issue 85023, pp.1-11, 05/2019, Published by IOP Publishing. (SCI, IF = 1.51)
- Arunesh Kumar Srivastava, K. N. Pandey, "Fabrication and low velocity impact response to Ballistic Grade Fabrics", *International Journal of Innovative Technology and Exploring Engg. (IJITEE)*, vol.8, Issue 8, pp.1021-1026, 06/2019, Published by Blue Eyes Intelligence Engineering & Sciences Publication. (Scopus)

11. Prabhu sekar, "A comparative study of tooth wear, mechanical power losses and efficiency in normal and high contact ratio asymmetric spur gears", *Journal of Solid Mechanics*, pp. Accepted, 06/2019, Published by IAU, Arak Branch. (Scopus)
12. Parul Sahu, M. K. Gupta, "Enhancement in erosion wear resistance of sisal composites by ecofriendly treatment and coating", *Materials Research Express*, vol.6, Issue 8, pp.085348, 06/2019, Published by IOP Science. (SCI, IF = 1.929)
13. Pandey, Ashok Kumar; Prakash, Ravi, "Impact of Industrial Symbiosis on Sustainability", *Open Journal of Energy Efficiency*, vol.8, pp.81-93, 06/2019, Published by Scientific Research Publishing.
14. Ravivarman R, Palaniradja K and Prabhu Sekar R, "Performance enhancement of normal contact ratio gearing system through correction factor", *Journal of Mechanical Engineering and Sciences*, pp.Accepted, 06/2019. (Scopus)
15. Dilawar Husain, Ravi Prakash, "Ecological Footprint Reduction of Built Envelope in India", *Journal of Building Engineering*, vol.21, pp.278-286, 06/2019, Published by Elsevier. (SCI)
16. Acharya, S. and Dash, S. K, "Natural convection in a cavity with undulated walls filled with water-based non-Newtonian power-law CuO–water nanofluid under the influence of the external magnetic field", *Numerical Heat Transfer, Part A: Applications*, vol.76, Issue 7, pp.552-575, 07/2019, Published by Taylor and Francis. (SCI)
17. Bholu Kumar and Shantanu Srivastava, "Modelling 2-D Supersonic Jet from a Convergent-Divergent Nozzle using k-ε Realizable Turbulence Model", *Journal of Physics: Conference Series*, vol.1240, Issue 1, pp.012019, 07/2019, Published by IOP Science. (Scopus)
18. Gupta S. K., Shukla D. K. and Dhake K. R, "Effect of nanoalumina in epoxy adhesive on lap shear strength and fracture toughness of aluminium joints", *The Journal of Adhesion*, 07/2019, (SCI, IF = 2.576)
19. Prakash agrawal, Rakesh Narain, Inayatullah, "Analysis of barriers in implementation of digital transformation of supply chain using interpretive structural modelling approach", *Journal of Modelling in Management*, 08/2019, Published by Emerald. (Scopus)
20. Mohammad Z. R. Khan, Sunil Kumar Srivastava, M. K. Gupta, "Investigations of Surface Micro Topologies and Crystalline Behaviour of Hybrid Wood Composites", *Materials Research Express*, vol.6, Issue 10, pp.105326, 08/2019, Published by IOP. (SCI, IF = 1.929)
21. Mohammad Z. R. Khan, Sunil Kumar Srivastava, M. K. Gupta, "Wood Particulates Composites: Mechanical and Thermal Properties", *Materials Research Express*, vol.6, Issue 10, pp.105323, 08/2019, Published by IOP. (SCI, IF = 1.929)
22. Mohammad Z. R. Khan, Sunil Kumar Srivastava, M. K. Gupta, "Water Absorption and its Effect on Mechanical Properties of Hybrid Wood Particulates Composites.", *Materials Research Express*, vol.6, Issue 10, pp.105305, 08/2019, Published by IOP. (SCI, IF = 1.929)
23. Mohit Saxena, M. K. Gupta, "Mechanical, thermal and water absorption properties of hybrid wood composites", *Journal of Materials: Design and Applications*, vol.233, Issue 9, pp.1914-1922, 09/2019, Published by Sage. (SCI)
24. Parul Sahu, M. K. Gupta, "Lowering in Water Absorption Capacity and Mechanical Degradation of Sisal Composites by Effect of Eco-friendly Treatment and Coating", *Polymer Composites*, 09/2019, Published by Wiley. (SCI, IF = 2.268)
25. Jeevesh Kumar Prajapati, M. K. Gupta, "Development of hybrid glass fibre/nano silica composite for sustainable product: mechanical, dynamic mechanical and optical properties", *Mater. Res. Express*, vol.6, Issue 11, pp.1150c4, 10/2019, Published by IOP. (SCI, IF = 1.929)
26. Deepanshu Srivastava, V. R. Komma, "Development of STEP AP224 extractor for interfacing feature based CAPP to STEP-NC (AP238)", *International Journal of Automation and Computing*, vol.16, Issue 5, pp.655-670, 10/2019, Published by Springer. (Scopus)
27. M. K. Gupta, Vipul Deep, "Effect of water absorption and stacking sequences on

- properties of hybrid sisal/ glass fibre reinforced polyester composite", *Journal of Materials: Design and Applications*, vol.233, Issue 10, pp.2045-56, 10/2019, Published by Sage. (SCI, IF = 2.014)
28. Anand Shivanappa Reddy, Praveen Kumar Agarwal and Satish Chand, "An adaptive multipopulation genetic algorithm for the optimization of active magnetic bearings", *IOP Conf. Series: Materials Science and Engineering*, vol.691, pp.12009-1202, 11/2019, Published by IOP Publishing. (Scopus)
 29. Acharya, S. and Dash, S. K, "Turbulent natural convection heat transfer from a vertical hollow cylinder suspended in air: A numerical approach", *Thermal Science and Engineering Progress*, vol.15, pp.100449, 11/2019, Published by Elsevier. (Scopus)
 30. Shubham Tripathi and Manish Gupta, "Identification of challenges and their solution for Smart supply chains in Industry 4.0 scenario: A Neutrosophic Dematel approach", *International Journal of Logistics Systems and Management*, pp.in press, 12/2019, Published by Inderscience. (Scopus)
 31. Shubham Tripathi and Manish Gupta, "Transforming towards a Smarter Supply Chain", *International Journal of Logistics Systems and Management*, pp.in press, 12/2019, Published by Inderscience. (Scopus)
 32. Arun Yadav, M. K. Gupta, "Development and characterization of jute composites for sustainable product: effect of chemical treatments and polymer coating", *Mater. Res. Express*, vol.7, Issue 1, pp.015306, 12/2019, Published by IOP. (SCI, IF = 1.929)
 33. P. Pal, R. Dev, "Thermal Modeling, Experimental Validation, and Comparative Analysis of Modified Solar Stills", *Journal of Solar Energy Engineering*, vol.141, Issue 6, pp.061013, 12/2019, Published by AMSE. (SCI, IF = 1.19)
 34. Parul Sahu, M. K. Gupta, "Effect of ecofriendly coating and treatment on mechanical, thermal and morphological properties of sisal fibre", *Indian Journal of Fibre & Textile Research*, vol.44, Issue 2, pp.199-204, 12/2019, Published by National Institute of Science Communication and Information Resources. (SCI, IF = 0.511)
 35. Sunil Kumar Gupta, Dharmendra Kumar Shukla & Dhake Kaustubh Ravindra, "Effect of nanoalumina in epoxy adhesive on lap shear strength and fracture toughness of aluminium joints", *The Journal of Adhesion*, 14/2019, Published by Taylor and Francis. (SCI, IF=2.366)
 36. Parul Sahu, M. K. Gupta, "A Review on the Properties of Natural Fibres and its Bio-composites: Effect of Alkali Treatment", *Journal of Materials: Design and Applications*, vol.234, Issue 1, pp.198-217, 01/2020, Published by Sage. (SCI, IF = 2.014)
 37. Deepanshu Srivastava, Venkateswara Rao Komma, "Systematic development of an interface for automatic generation of STEP-NC (AP238) code for milled features", *International Journal of Computer Integrated Manufacturing*, vol.33, Issue 2, pp.189-210, 01/2020, Published by Taylor and Francis. (SCI, IF = 2.861)
 38. Prashant Kumar Singh and S. B. Mishra, "Erosion behaviour of boiler component materials at room temperature and 400°C temperature", *Materials Research Express*, vol.7, Issue 16538, pp.1-15, 01/2020, Published by IOP Science. (SCI, IF=1.449)
 39. Sudhir Kumar Mishra, Dharmendra Kumar Shukla, Rabindra Kumar Patel, "Effect of particle morphology on flexural properties of functionally graded epoxy-alumina polymer nanocomposite", *Materials Research Express*, vol.6, Issue 12, 01/2020, Published by IOP Science. (SCI, IF = 1.929)
 40. Suresh Kumar Patel, Dhananjay Singh, Rahul Dev, "Removal of Arsenic Contamination from Gomti River Water by using Activated Charcoal Absorbent Integrated with Solar Distillation Unit", *Asian Journal of Chemistry*, vol.32, Issue 3, pp.550-554, 01/2020, Published by Asian Publication Corporation. (Scopus)
 41. Vineed Narayanan, G Venkatarathnam, "Prediction of vapour-liquid equilibria of neon-nitrogen, neon-oxygen and neon-argon mixtures used in JT refrigerators", *Cryogenics*, vol.106, pp.103039, 01/2020, Published by Elsevier. (SCI)

42. M. K. Gupta, "Investigations on jute fibre reinforced polyester composite: Effect of alkali treatment and PLA coating", *Journal of Industrial Textiles*, vol.49, Issue 7, pp.923-942, 02/2020, Published by Sage. (SCI, IF = 2.010)
43. Gupta S. K., Shukla D. K., "Quasi-static and Dynamic Lap Shear Strength of Aluminium Joints Bonded with Epoxy/Alumina Nano composite Adhesive", *Journal of Dynamic Behavior of Materials*, vol.6, pp.186-196, 02/2020, Published by Springer. (Scopus, IF= 0.465)
44. Prashant Kumar Singh, S. B. Mishra, "Studies on solid particle erosion behaviour of D-Gun sprayed WC-Co, Stellite 6 and Stellite 21 coatings on SAE213-T12 boiler steel at 400 °C temperature", *Surface and Coatings Technology*, vol.385, Issue 125353, pp.1-15, 03/2020, Published by Elsevier. (SCI , IF = 3.192)
45. Gupta S. K., Shukla D. K., "Effect of stress rate on shear strength of aluminium alloy single lap joints bonded with epoxy/ nanoalumina adhesives", *International Journal of Adhesion and Adhesives*, vol.99, 03/2020, Published by Elsevier. (SCI, IF = 2.671)
46. Binayaka Nahak, Ashish Srivastava , M. Z. Khan Yusufzai, Meghanshu Vashista, "Surface Integrity Assessment Upon Electric Discharge Machining of Die Steel Using Non-Destructive Magnetic Barkhausen Noise Technique", *Transactions of the Indian Institute of Metals*, vol.73, Issue 4, pp.967-974, 03/2020, Published by Springer Science + Business Media. (SCI, IF = 1.27)
3. Manish Gupta and Satish Kumar, "Design Efficiency Analysis Towards Product Improvement using DFMA", 8th International Conference on Modeling, Simulation and Applied Optimization (ICMSAO), Bahrain, pp.1-8, 04/2019.
4. Singh A. K, Shukla D. K., Prasad N. E, "Tensile Property of Ultra High Molecular - Weight Polyethylene (UHMWPE) Fibre and Its Composite Laminate", International Conference on Applied Mechanical Engineering Research (IC-AMER2019), NIT Warangal, India, pp.881-888, 05/2019, Published by Lecture notes in Mechanical Engineering, Springer.
5. Pawan Kumar Singotia and Samir Saraswati, "Cycle-by-cycle variations in a spark ignition engine fueled with gasoline and natural gas", 2nd International Conference on Computational & Experimental Methods in Mechanical Engineering, Greater Noida, 05/2019.
6. Ashish Kumar, Manish Gupta, Venkateswara Rao Komma, "MCDM techniques to identify the Critical Success Factors for the implementation of SCM in Indian MSMEs", 6th International Conference on Production and Industrial Engineering (CPIE 2019), National Institute of Technology, Jalandhar Punjab, 06/2019.
7. S. Singh, M. Shukla, T. Bhardwaj and A. K. S. Chauhan, "Simulation of Residual Stresses and Distortion of Laser Additive Manufactured Maraging Steel for Aerospace Applications", *Advanced Materials and Processes for Defence Applications (ADMAT 2019 MatDef)*, Hyderabad, , 09/2019,
8. K. N. Pandey and Ketan Gupta, "Effect of Shallow and Deep Cryogenic Treatment on Tribological Properties of Monel K-500", *Proceedings of the 36th Danubia-Adria Symposium on Advances in Experimental Mechanics*, University of West Bohemia.,Plzeň, Czech Republic, 09/2019,

Publication in International Conferences

1. Mullick, Saddam Hossain, P. Kaushik, Pranab Kumar Mondal, "Entropy Generation in a Viscoelastic Fluid Squeezed and Extruded Between Two Parallel Plates", *Proceedings of 25th National and 3rd International ISHMT-ASTFE Heat and Mass Transfer Conference (IHMTTC-2019)*, IIT Roorkee, pp.581- 585, 12/2019, Published by Begel House Inc.
2. Mullick, Saddam Hossain, Debabrata Das Gupta, and Pranab Kumar Kundu, "Transient heat transfer analysis during natural convection at high Ra number and small period of heating from bottom wall", *Proceedings of 25th national and 3rd international ISHMT-ASTFE Heat and Mass Transfer Conference (IHMTTC-2019)*, IIT Roorkee, pp.545-550, 12/2019, Published by Begel House Inc.

9. Dhananjay Singh Yadav, Bireswar Paul., "Combustion characteristics of coaxial non-premixed flames of Natural Gas and Biogas", 25th National and 3rd International ISHMT-ASTFE Heat and Mass Transfer Conference (IHMTTC-2019), IIT Roorkee, Roorkee, India, pp.151-156, 12/2019, Published by Begell House.
10. Mohd. Nayab Zafar, J C Mohanta, Alok Sanyal, "Design and implementation of an autonomous robot manipulator for pick and place planning", ICCEMME, 2019, IOP Conference Series: Materials Science and Engineering, pp.18, 12/2019, Published by IOP Conference Series: Materials Science and Engineering.
11. Kriti Sahai and Audhesh Narayan, "Micro-Milling Processes – A Review", 4th International Conference on Advanced Production and Industrial Engineering (ICAPIE' 19), Delhi Institute of Tool Engineering (DITE), Okhla, Delhi, India, 12/2019.
12. Khan, Mohammad. Z R., Srivastava, S. K., & Gupta, M K, "Experimental Investigations of Mechanical Toughness of Hybrid Wood and Pre-Treated Hybrid Wood Polymer Composites.", International Conference on Energy, Environment & Material Sciences (ICE2M), Gorakhpur., 12/2019,
13. Ganesh and K N Pandey, "Thermo mechanical analysis of the Gas Turbine Blade", Proceedings of the 7th International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering, Indian Institute of Technology Ropar, 12/2019,
14. Alka Bharti, Bireswar Paul, "Theoretical Analysis of Stress and Deflection of Receiver Tube of Solar Parabolic Trough Collector", 25th National and 3rd International ISHMT-ASTFE Heat and Mass Transfer Conference (IHMTTC-2019), IIT Roorkee, Roorkee, India., pp.98-103, 12/2019, Published by Begell House.
15. Sheo Kumar and Praveen Kumar Agarwal, "Fault diagnosis of Helical gearbox using Artificial Intelligence Techniques", International Conference on Innovative Engineering Design (ICOIED) 2020, Dehradun, India, 01/2020,
16. Nisha Singh and Praveen Kumar Agarwal, "Design of Hybrid Bearings and Its Development: A Review", International Conference on Innovative Engineering Design (ICOIED) 2020, Dehradun, India, 01/2020,
17. Abhay Singh, Rahul Dev, Sanjoy Kumar Samdarshi, "Performance analysis of Solar Energy Operated Crop Cutting Machine (Paper no. 29)", International conference on Energy and Environmental Technologies For Sustainable Development (Chem-Conflux20), Chemical Engineering Department, MNNIT Allahabad, 02/2020, Published by MNNIT Allahabad.
18. Prakash Agrawal, and Rakesh Narain,, "Application of emerging technologies in digitalization of supply chain", 6th Biennial Conference of "Indian Academy of Management (INDAM-2020), IIM, Trichy, 02/2020.
19. Sunil Kumar Gupta, Mrityunjay Kumar Sinha, Binayaka Nahaka, "A CFD analysis of vertical plate with square pin fin heat sink in natural convection", International Conference on "Energy and environmental technologies for sustainable development", MNNIT Allahabad (UP), pp.2, 02/2020, Published by MNNIT Allahabad.
20. R. K. Gond, M. K. Gupta, "Development of PLA Based Nanocellulose Film for Packaging Applications", International Conference on Energy and Environmental Technologies for Sustainable Development, MNNIT Allahabad, 02/2020.
21. Shiv Sunder Singh, Akash Subhash Awale, Anurag Chaudhari, Binayaka Nahak, "Monitoring the microstructural changes of heat treated medium carbon steel by Barkhausen noise and hysteresis loop techniques", 10th International Conference of Materials Processing and Characterization, ICMPC-2020 , Materials Today: Proceeding, GLA, Mathura, India, pp.5, 03/2020, Published by GLA, Mathura, India.

Publication in National Journal

1. Anil Ghorai, Manish Mukhopadhyay, Pranab Kumar Kundu and Santanu Das, "Experimental Investigation on Enhancing Grindability of Ti-6Al-4V Under Varying Coolant concentration", Journal of Association of Engineers (I), vol.89, Issue 1, pp.47–56, 10/2019, Published By Association of Engineers (I).

Publication in National Conferences

1. Mishra S. K. and Shukla D. K and Patel R. K., "Fracture toughness of functionally graded epoxy- alumina polymer nanocomposites", National Conference on Industrial Application of Nanoscience and Nanotechnology (IANN-2019), MNNIT Allahabad, India, 11/2019,
2. Nadeem Akhtar, Sunil Kumar Gupta, Binayaka Nahak and Anil Kumar Singh, Satyendra Kumar Patel, "Durability analysis of lap joint bonded with polymer nano-composite adhesive", Futuristic Trends in Materials, Manufacturing, and Mechanical Engineering (FTMMME-2020), NIT, Raipur, India, pp.4, 02/2020, Published by NIT Raipur.

Reviewer in International Journals and Conferences

Sl. No.	Faculty Name	Journal Name
1.	Dr. Avanish Kumar Dubey	Optics and Laser Technology Advances in Engineering Software Materials and Manufacturing Processes Journal of Intelligent and Fuzzy Systems International Journal of Advanced Manufacturing Technology Advances in Optical Technologies Lasers in manufacturing and Materials Processing Optics and Lasers in Engineering Machining Science and Technology Journal of Materials Processing Technology Measurement Science Review International Journal of Manufacturing Technology and Management International Journal of Precision Engineering and Manufacturing Journal of Mechanical Science and Technology International Journal of Machining and Machinability of Materials Lasers in Engineering
2.	Dr. Bireswar Paul	India Section A: Physical Sciences International Conference on Recent Innovations and Developments in Mechanical Engineering (IC-RIDME-2018) 7 th International and 45 th National Conference on Fluid Mechanics and Fluid Power (FMFP-2018) Journal of Thermal Engineering National Conference on Internal Combustion Engines and Combusion
3.	Dr. Dharmendra K. Shukla	Advances in Mechanical, Industrial, Automation and Management Systems (AMIAMS-2017) Indian Conference on Applied Mechanics (INCAM) 2017
4.	Dr. Jagadish Chandra Mohanta	Vision Based Virtual Force Guidance for Tele-robotics system Computer Simulation and Dynamic Modelling of a Quadrupedal Pronking Gait Robot with SLIP Model Computers & Electrical Engineering
5.	Dr. M. K. Khurana	Journal of Advanced Manufacturing Systems BLB International Journal of Science and Technology
6.	Dr. Manish Gupta	Advances in Mechanical, Industrial, Automation and Management Systems International Journal of Logistics Systems and Management International Journal of Procurement Management International Journal of Operations and Production Management

7. Dr. Manoj Kumar Gupta
American Journal of Materials Engineering and Technology
International Journal of Physical Sciences
American Journal of Mechanical Engineering
Archives of Current Research International
Current Applied Polymer Science
British Journal of Applied Science & Technology
Journal of Silicon
International Journal of Technology
Advances in Materials & Processing Technologies
Indian Journal of Fibre & Textile Research
Plastics, Rubber and Composites: Macromolecular Engineering
Journal of Materials Science Research and Reviews
Biomaterials
Journal of Thermoplastic Composite Materials
Bulletin of Materials Science
Advances in Mechanical Engineering
Polymers for Advanced Technologies
Journal of Materials Processing Technology
Journal of Reinforced Plastics and Composites
International Journal of Ambient Energy
Materials Research
International Journal of Materials and Product Technology
Polymer Composites
Journal of the Chinese Advanced Materials Society
Nanotechnology Reviews
8. Dr. Praveen Kumar Agarwal
The European Control Conference 2013
Mechatronics
Third International Conference on Advances in Control and Optimization of Dynamical Systems
IEEE sponsored International Conference on Advances in Mechanical, Industrial, Automation and Management Systems (AMIAMS 2017)
Transactions of the Institute of Measurement and Control
International Journal of Dynamics and Control
9. Dr. R. Prabhu Sekar
Mechanism and Machine Theory
10. Dr. Rahul Dev
Energy
Solar Energy
11. Dr. Rajeev Srivastava
International Journal of Machining and Machinability of Materials
12. Dr. Ravi Prakash
Frontiers of Environmental Science and Engineering
Open Journal of Energy Efficiency(OJEE)
Applied Energy
Environment, Development and Sustainability
Journal of Housing and Built Environment
Research Journal of the University of Mauritius
Energy for Sustainable Development
Building Simulation
Environmental Impact Assessment Review
Sustainable Cities and Society
Energy
Science in Society

13.	Dr. Samir Saraswati	Sustainability: International Journal of Environmental, Cultural, Economic and Social Sustainability Energy and Buildings Chemical Engineering Science International Journal of Modeling Identification and Control Mathematical and Computer Modelling of Dynamical Systems Neural Computing and Applications International Journal of Engine Research Biofuels
14.	Dr. Suryanarayan B. Mishra	Materials and Design IEEE sponsored International Conference on Advances in Mechanical, Industrial, Automation and Management Systems (AMIAMS 2017) High Temperature Materials and Processes Acta Metallurgica Sinica Journal of Materials Engineering and Performance 3 rd Indian Conference on Applied Mechanics
15.	Dr. Tej Pratap	The International Conference on Energy, Environment & Material Sciences (ICE2M-2019) Surface and Coatings Technology Materials Research Express Journal of The Indian Chemical Society Futuristic Trends in Materials, Manufacturing and Mechanical Engineering (FTMMME-2020)
16.	Dr. Binayaka Nahak	AIMTDR, Conference Journal of Materials Science Materials Today: Proceedings
17.	Dr. Jitendra Narayan Gangwar	Fuel
18.	Dr. Sunil Kumar Gupta	International Journal of Adhesion and Adhesives Futuristic Trends in Materials, Manufacturing and Mechanical Engineering (FTMMME-2020)

Book(s)/ Book Chapter Authored

Sl. No.	Faculty Name (Author/ Co-author)	Book	Book Chapter	Publisher
1.	Dhananjay Singh Yadav, Bireswar Paul	Advances in Mechanical Engineering.	Performance analysis of LPG cook stove with modifications.	Springer Singapore
2.	Bharti, A., Mishra, A. and Paul, B.	Advances in Mechanical Engineering.	Mathematical modeling and optimized design aspects of secondary reflectors for solar parabolic trough collector.	Springer Singapore
3.	P. Sahoo, T. Pratap, K. Patra	Advances in Simulation, Product Design and Development.	Prediction of Cutting Forces in Micro Milling of P-20 Steel by TiAlN Coated WC Tool: An Analytical Approach.	Springer Nature Singapore Pte Ltd.

Invited Lectures Delivered

1.	Lecture delivered by Dr. Dharmendra K. Shukla at Fourth International Conference on Nanotechnology for Better Living, April 06-07,	2019, IIT Kanpur, India on 06/04/2019 entitled self healing of epoxy by dicyclopentadiene microcapsules.
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2. Lecture delivered by Dr. Samir Saraswati at 2nd International Conference on Computational & Experimental Methods in Mechanical Engineering, G. L. Bajaj Institute of Technology & Management, Greater Noida on 04/05/2019 entitled Air-Fuel Ratio Management for Spark Ignition Engines.
3. Lecture delivered by Dr. Rahul Dev at One week TEQIP-III sponsored FDP/STC on 'Sustainable Environmental Management & Renewable Energy Technologies for Future', Department of Mechanical Engineering, Government Engineering College, Bharatpur, Rajasthan, India on 15/05/2019 entitled Evaluation and Assessment of Solar Energy" and "Solar Energy Technologies: Solar Photovoltaic and other.
4. Lecture delivered by Dr. K. N. Pandey at Faculty Development Programme on "Advances in Product Manufacturing" organized during 09-13 July 2019, Mechanical Engineering Department, United College of Engineering and Management, Prayagraj on 10/07/2019 entitled Manufacture of Turbine Blade and Thermal Barrier Coatings (TBC)".
5. Lecture delivered by Mr. Sunil Kumar Gupta at FDP on Advances in Product Manufacturing, United College of Engineering & Management Allahabad on 12/07/2019 entitled Application of Polymer Nanocomposites in Product Manufacturing.
6. Lecture delivered by Dr. Rahul Dev at Faculty Development Program on "Advances in Energy Management Systems", Department of Mechanical Engineering, Ujjain Engineering College, Ujjain (M.P.) on 16/07/2019 entitled Solar Energy Technologies.
7. Lecture delivered by Dr. Venkateswara Rao Komma at TEQIP-III sponsored STC on Practical Aspects of Optimization 1-5 August, 2019, Department of Mechanical Engineering, Kamla Nehru Institute of Technology (KNIT) Sultanpur on 03/08/2019 entitled GA Based Optimization using Matlab.
8. Lecture delivered by Mr. Binayaka Nahak at Time: 3 to 5 PM, MED, J S University, Shikohabad, Firozabad-283135 (U.P), India on 24/08/2019 entitled Recent Development in Electro discharge Machine.
9. Lecture delivered by Dr. Shantanu Srivastava at Invited Lecture, Devendra Kr. Lohia Head of Mechanical Engg. Department at F.E.T, Rama University, Kanpur on 31/08/2019 entitled High Speed Aerodynamics.
10. Lecture delivered by Dr. Rahul Dev at Short term course: "Evolution in the Field of Sustainable Energy Sciences & Technologies (EFSEST-2019)" 'during September 24-28, 2019, Department of Mechanical Engineering, Bundelkhand Institute of Engineering and Technology, Jhansi (U.P.) on 25/09/2019 entitled New Trend of Solar Energy Concept.
11. Lecture delivered by Mr. Binayaka Nahak at Time: 3-5 PM, MED, JS University, Shikohabad, Firozabad-283135 (U.P), India on 28/09/2019 entitled Recent Development in Hydro-forming Process.
12. Lecture delivered by Dr. Rahul Dev at TEQIP-III Sponsored One week Faculty Development Program on "Advances in Renewable and Bioenergy (ARB-2019)" 'during October 19th-23rd 2019', Department of Chemical Engineering, Institute of Engineering & Technology, Sitapur Road Lucknow-226021, Uttar Pradesh, India on 22/10/2019 entitled Advances in Solar Energy: Measurement and Applications.
13. Lecture delivered by Dr. Venkateswara Rao Komma at FDP on Numerical and Optimization Techniques (NOT-2019) 8th-12th November, 2019, Department of Civil Engineering, MNNIT Allahabad on 09/11/2019 entitled Evolutionary Optimization using Matlab.
14. Lecture delivered by Dr. K. N. Pandey at Faculty Development Programme (FDP) under TEQIP-III on "The Recent Advances in Mechanical Engineering, IET, Purvanchal University, Jaunpur on 10/11/2019 entitled Turbine blade material, manufacture and life assessment.
15. Lecture delivered by Dr. Praveen Kumar Agarwal at Short term course on "Numerical and Optimization Technique (NOT-2019)", Dept. of Civil Engineering, MNNIT Allahabad on 11/11/2019 entitled Fuzzy Logic System and Applications.
16. Lecture delivered by Dr. Shantanu Srivastava at Invited Lecture, Prof. O. P. Singh, IET Lucknow

- on 04/12/2019 entitled Fluid Flow and Aerodynamics
17. Lecture delivered by Dr. Rabindra Kumar Patel at Short Term Course on Advances in Composite Materials II (ACM-II 2019), MNNIT on 20/12/2019 entitled FEA of Composites.
 18. Lecture delivered by Dr. Tej Pratap at TEQIP-III Short Term Training Programme on 'Structural Integrity and Reliability (SIR 2019), Mechanical Engineering Department, Motilal Nehru National Institute of Technology (MNNIT) Allahabad, Prayagraj, Uttar Pradesh, India on 25/12/2019 entitled Fabrication of Metal Matrix Composites and its Tribological Performance.
 19. Lecture delivered by Dr. K. N. Pandey at TEQIP-II sponsored Short Term Training Programme on "Structural Integrity and Reliability", Department of Mechanical Engineering, MNNITA, Prayagraj on 26/12/2019 entitled Life Assessment of Turbine Blade.
 20. Lecture delivered by Dr. Venkateswara Rao Komma at TEQIP-III Sponsored Short Term Training Programme Structural Integrity and Reliability 23rd-27th December, 2019, Department of Mechanical Engineering, MNNIT Allahabad on 26/12/2019 entitled Reliability Engineering
 21. Lecture delivered by Dr. Dharmendra K. Shukla at Structural Integrity and Reliability (SIR 2019),
 22. Lecture delivered by Dr. Rahul Dev at Solaris 2020-A national Conference on Sustainable Environment and Climate, Sri RamSwaroop Memorial University, Barabanki, Uttar Pradesh, India on 09/02/2020 entitled Solar Distillation Systems.
 23. Lecture delivered by Dr. Rahul Dev at International Conference on 'Energy and Environmental Technologies for Sustainable Development' Chem-Conflux20, Chemical Engineering Department, MNNIT Allahabad on 15/02/2020 entitled Solar Energy: Thermal Applications.
 24. Lecture delivered by Dr. K. N. Pandey at World Engineering Day for Sustainable Development, Institution of Engineers, Prayagraj Local Centre on 04/03/2020 entitled Sustainable Engineering.

Invited Lectures Organized

1. A lecture is delivered by Prof J. Ram Kumar, Professor, IIT Kanpur on 09/08/2019 entitled Laser Material Interaction.
2. A lecture is delivered by Prof B. C. Ray, Professor, NIT Rourkela on 26/08/2019 entitled FRP Composites: An alternative structural material.

Events Organized by Department

Sl. No.	Name	Title	From	To
1.	Short term course	TEQIP-III Sponsored Short Term Course on Advances in Composite Materials-II (ACM-II 2019), MNNIT Allahabad	17.12.2019	21.12.2019
2.	STTP	Structural Integrity and Reliability, MNNIT Allahabad	23.12.2019	27.12.2019

Events Attended

1. Dr. Jagadish Chandra Mohanta attended International conference on Computational & Experimental Methods in Mechanical Engineering at G.L. Bajaj Institute of Technology and Management, Greater Noida on/during 03/05/2019 to 05/05/2019.
2. Dr. Jagadish Chandra Mohanta attended Workshop on Importance and use of Hindi as a language at MNNIT Allahabad on/during 25/09/2019 to 25/09/2019.
3. Dr. K. N. Pandey attended International conference on 36th Danubia-Adria Symposium Advances in Experimental Mechanics at Plzeň, Czech Republic on/during 24/09/2019 to 27/09/2019.
4. Dr. Rahul Dev attended International conference on Energy and Environmental Technologies for Sustainable Development at MNNIT Allahabad on/during 14/02/2020 to 16/02/2020.

Research Projects Completed/Ongoing

Sl. No.	Principal Investigator /Co-investigator(s)	Project Title	Funding Agency	Amount (INR)	Duration
1.	Dr. Jagadish Chandra Mohanta (PI)	Quadcopter Application for Line Inspection of Power Transmission Lines.	DST-ICPS, New Delhi	24.123 Lakhs	Ongoing
2.	Dr. K. N. Pandey (PI)	Life prediction of turbine blades under coated and uncoated conditions.	ARDB	24.33 Lakhs	Ongoing
3.	Mr. Binayaka Nahak (Co-PI)	Optimal parameter setting and experimental characterization of tubular component using warm hydro-forming.	National Project Implementation Unit (NPIU), A unit of MHRD, Govt. of India for implementation of World bank assisted Projects in technical education (TEQIP Collaborative Research	13.83 Lakhs	Ongoing
4.	Dr. Avanish Kumar Dubey, (PI)	Study of Laser Trepan Drilling of Advanced Engineering Materials.	Aeronautics R&D Board, New Delhi (India)	32.91 Lakhs	Ongoing
5.	Dr. Manoj Kumar Gupta, (PI)	Green composite prepared by waste sugarcane bagasse and poly lactic acid (PLA) for packaging applications.	CST, UP	11.40 Lakhs	Ongoing
6.	Dr. Mukul Shukla (Co-PI)	Hybrid composite for light weight impact resistant helmet.	NPIU-TEQIP	17.7 Lakhs	Ongoing
7.	Dr. Samir Saraswati (Co-PI)	Performance and Emission Analysis of Biofuels in Diesel Engine Using Antioxidant Additives.	NPIU	14.20 Lakhs	Ongoing
8.	Dr. Manoj Kumar Gupta, (Co-PI)	Development of light weight and strong motorcycle helmet using hybrid fibres composite.	TEQIP III	17.70 Lakhs	Ongoing

10.13 DEPARTMENT OF PHYSICS

Vision

To be nationally recognized as a model of an effective and successful Physics programme.

To have a reputation for our advanced and successful research in emerging areas of Physics

To have the reputation for the success of our research students and engineering graduates

Mission

To provide Physics education to engineering graduates as per need of future engineering and technological education in the country

List of Laboratories:

1. Under Graduate Physics Lab-I (Optics Lab).
2. Under Graduate Physics Lab-II (General Lab).
3. Research Lab.

Courses Run by Department:

1. Physics I (PH 11101)
2. Physics II (PH12102)
3. Physics Lab (PH11201)
4. Physics Lab (PH12201)
5. Ph. D. Courses

Publication in International Journals

1. A. Singh, S. K. Ojha Animesh K. Ojha "Charcoal derived graphene quantum dots for flexible supercapacitor oriented applications" *New J. Chem.*, Vol. 44, pp.11085-11091, 06/2020, Published by RSC. (SCI, IF=3.28).
2. A Singh, S. K. Ojha, M. Singh, Animesh K. Ojha "Controlled synthesis of NiCo₂S₄@ NiCo₂O₄ Core@ Shell nanostructured arrays decorated over the rGO sheets for high-performance asymmetric supercapacitor" *Electrochimica Acta*, Vol. 20, pp. 136349, 04/2020, Published by Elsevier. (SCI, IF=6.21).
3. A. Kumar , N. Vyas, Animesh K Ojha "Hydrogen storage in magnesium decorated boron clusters (Mg₂B_n, n=4–14): A density functional theory study" *International Journal of Hydrogen Energy*, Vol. 45, pp. 12961, 3/2020, Published by Elsevier. (SCI, IF=4.93).
4. N. Vyas, A Kumar, Animesh K. Ojha, "Electronic structure of iron dinitrogen complex [(TPB) FeN₂]²⁻¹⁻⁰: correlation to Mössbauer parameters" *RSC Advances*, Vol. 10, pp. 7948, 02/2020, Published by RSC. (SCI, IF=3.07).
5. A. Singh, Animesh K. Ojha "Coal derived graphene as an efficient supercapacitor electrode material" *Chemical Physics*, Vol. 530, pp. 110607, 2 /2020, Published by Elsevier. (SCI, IF=1.77).
6. S. K. Ojha, A. Singh, Animesh K. Ojha " Modifications in structural morphology of CH₃NH₃PbI₃ perovskite using nitrilotriacetic acid and glycine as habit modifiers" *Materials Chemistry and Physics*, Vol. 240, pp. 122149, 1/2020, Published by Elsevier. (SCI, IF=3.40).
7. A. Singh A, S. K. Ojha, Animesh K. Ojha " Facile synthesis of porous nanostructures of NiCo₂O₄ grown on RGO sheet for high performance supercapacitors" *Synthetic Metals*, Vol. 259, pp. 116215, 1/2020, Published by Elsevier. (SCI, IF=3.28).
8. S. Bhunia S., A. Kumar, Animesh K. Ojha, "Tuning of structural and magnetic properties by intriguing radical-radical interaction by double electron oxidation in UAU' triplex formation" *Chemical Physics*, Vol. 528, pp. 110527, 1/2020, Published by Elsevier. (SCI, IF=1.77).
9. N. Vyas, B. Pandey, Animesh K. Ojha, A. Grover "Revisiting mechanistic studies on dinitrogen reduction to ammonia by an iron dinitrogen complex as nitrogenase mimic, *International Journal of Quantum Chemistry*, Vol. 119, pp. E26025, 12/2019, Published by Wiley. (SCI, IF=2.26)
10. A. Singh, S. Kumar, B. Ahmed, R. K. Singh, Animesh K. Ojha "Temperature induced modifications in shapes and crystal phases of MoO₃ for enhanced photocatalytic degradation of dye waste water pollutants under UV irradiation" *Journal Alloys and Compounds*, Vol. 806, pp. 1368, 10/2019, Published by Elsevier. (SCI, IF=4.65).
11. A. Kumar, A. Singh, Animesh K. Ojha " A new approach to predict the formation of 3D hybrid organic-inorganic perovskites" *International Journal of Quantum Chemistry*, Vol. 119, pp. E26012, 06/2019, Published by Wiley. (SCI, IF=2.26).
12. Vivek Chaudhary, Naresh Kumar, Arun Singh, "Solubility dependent trap density in poly (3-hexylthiophene) organic Schottky diodes at room temperature", *Synthetic Metals*, vol.250, pp.88-93, 04/2019, Published by Elsevier. (SCI, IF=2.87)
13. Kavyashree, Shama Parveen, S. S. Raut, M. K. Tiwari, B. R. Sankapal, S. N. Pandey, "Flexible iron-doped Sr(OH)₂ fibre wrapped tuberoses for high-performance supercapacitor electrode", *Journal of Alloys and Compounds*, vol.781, pp.831-841, 04/2019, Published by Elsevier. (SCI, I 3.779)
14. Ravi Prakash and Arul Lakshmi Narayan, "Out-of-Time-Order Correlators in Bipartite Non integrable Systems", *Acta Physica Polonica A*, vol.136, pp.803, 05/2019, Published by Polska Akademia Nauk. (SCI)

15. Anil Kumar, Chandra Shekhar Prajapati P. P. Sahay, "Modification in the microstructural and electrochromic properties of spray-pyrolysed WO₃ thin films upon Mo doping", *Journal of Sol-Gel Science and Technology*, vol.90, Issue 2, pp.281-295, 05/2019, Published by Springer. (SCI, IF=2.008)
16. Sharvan Kumar, Jyoti Shukla, Kalyanashis Mandal, Yogendra Kumar, Ravi Prakash, Panch Ram and Pritam Mukhopadhyay, "Doubly zwitterionic, di-reduced, highly electron-rich, air-stable naphthalenediimides: redox-switchable islands of aromatic-antiaromatic states", *Chemical Science*, vol.10, Issue 26, pp.6482, 05/2019, Published by Royal Society of Chemistry. (SCI, IF = 9.556)
17. Shama Parveen, Kavyashree, S. N. Pandey, "Electrochemical study of 3D hierarchical dandelion-fiber flake-like structure of Al(OH)₃/MnO₂nanocomposite thin film for future supercapacitor applications", *Electrochimica Acta*, vol.319, pp.832-842, 07/2019, Published by Elsevier. (SCI, IF = 5.383)
18. Manisha R Singh, Mohit sahani, Munendra Singh, Bhaskar Bhattacharya, Naresh Kumar, "Comparative study of Fabrication and Characterization of Al-ZnO based Schottky Barrier Diodes using Pd and Au Metal Contacts", *Journal of Materials Science: Materials in Electronics*, vol.30, Issue 14, pp.13280-13, 07/2019, Published by Springer Nature. (SCI, IF = 2.195)
19. Kavyashree, R. P. Yadav, Shama Parveen, Leela Pradhan Joshi, S. N. Pandey, "Fractal characterization of flakes covered tuberos structured Cu: Sr (OH)₂ thin film as super capacitive electrode", *Materials Research Bulletin*, vol.120, pp.110574 (1-,08/2019, Published by Elsevier. (SCI, IF = 3.335)
20. Arun Kumar Singh, Vivek Chaudhary, Rajiv Pandey, Rajiv Prakash, Naresh Kumar, "Simple strategy for large-scale alignment and highly crystalline poly (3-hexylthiophene): Thin film field-effect transistors", *Synthetic Metals*, 09/2019, Published by Elsevier. (SCI, IF = 2.870)
21. Vivek Chaudhary, Rajiv Kumar Pandey, Rajiv Prakash, Naresh Kumar, and Arun Kumar Singh, "High photo responsivity and detectivity of solution-processable poly (3-hexylthiophene)-MoS₂ hybrid photodetectors", *Applied Physics Letters*, 09/2019, Published by American Institute of Physics. (SCI, IF = 3.521)
22. Ambuja Bhushan Jaiswal, Akhilesh Pandey and Ravi Prakash, "Universality classes of quantum chaotic dissipative systems", *Europhysics Letters*, vol.127, Issue 3, pp.30004, 09/2019, Published by Institute of Physics Publishing. (SCI, IF = 2.252)
23. Anil Kumar, P. P. Sahay, "Microstructural, optical and electrochromical properties of W-doped Nb₂O₅ thin films prepared by dip-coating process using sols obtained by the chloroalkoxide route", *Journal of Materials Science: Materials in Electronics*, vol.30, Issue 19, pp.17999-18, 10/2019, Published by Springer. (SCI, IF = 2.220)
24. Vivek Chaudhary, Rajiv Pandey, Rajiv Prakash, Naresh Kumar, Arun Singh, "Highly aligned and crystalline poly (3-hexylthiophene) thin films by off-center spin coating for high performance organic field-effect transistors", *Synthetic Metals*, vol.258, pp.116221, 10/2019, Published by Elsevier. (SCI, IF = 2.87)
25. Anil Kumar, Chandra Shekhar Prajapati P. P. Sahay, "Results on the microstructural, optical and electrochromic properties of spray-deposited MoO₃ thin films by the influence of W doping", *Materials Science in Semiconductor Processing*, vol.104, pp.104668, 12/2019, Published by Elsevier. (SCI, IF=3.085)
26. Mohit Sahni, Dharmesh Kumar, Munendra Singh and Naresh Kumar, "Study of structural, optical and photocatalytic activity of Sm and Ni doped BiFeO₃ (BFO) and BFO@ZnO nanostructure", *Materials Today: Proceedings*, vol.28, Issue 1, pp.56-60, 01/2020, Published by Springer. (SCI, IF = 0.97)
27. Shama Parveen, Kavyashree, S. N. Pandey, "Embedded coral reef sponge like structured Al(OH)₃/FeOOH composite for flexible solid-state symmetric supercapacitor", *Journal of Power Sources*, vol.44, pp.227304 (1-, 01/2020, Published by Elsevier. (SCI, IF = 7.467)
28. Kavyashree, Shama Parveen, Suneel Kumar Sharma and S. N. Pandey, "Solid-state

- symmetric supercapacitor based on Y doped Sr(OH)₂ using Silar method", Energy, vol.197, pp.117163 (1-, 02/2020, Published by Elsevier. (SCI, IF = 5.537)
29. Vivek Chaudhary, Rajiv Kumar Pandey, Praveen Kumar Sahu, Rajiv Prakash, Naresh Kumar , and Arun Kumar Singh, "MoS₂ Assisted Self-Assembled Poly(3-hexylthiophene) Thin Films at an Air/Liquid Interface for High-Performance Field-Effect Transistors under Ambient Conditions", Journal of Physical Chemistry C, vol.124, Issue 15, pp.8101-8109, 03/2020, Published by 4.309. (SCI)
30. Ravi Prakash and Arul Lakshmi Narayan, "Scrambling in strongly chaotic weakly coupled bipartite systems: Universality beyond the Ehrenfest timescale", Phys. Rev. B (Rapid Communication), vol.101, pp.121108(R), 03/2020, Published by American Physical Society. (SCI, IF = 5)
31. Rashmi Singh, Faizan Ahmad, Kashif Nazeer, Rachana Kumar, Naresh Kumar, Animesh K. Ojha , Sunil Singh Kushvaha and Pramod Kumar, "Material study of Co₂CrAl Heusler Alloy magnetic thin film and Co₂CrAl/n-Si Schottky junction device", Journal of Electronic Materials, vol.49, pp.3652-3658, 03/2020, Published by Springer. (SCI, IF = 1.579)
32. Bhim Sen Yadav, Rashmi Singh, Anand Kumar Vishwakarma and Naresh Kumar, "Facile synthesis of substantially magnetic hollow nanospheres of maghemite (γ -Fe₂O₃) originated from magnetite (Fe₃O₄) via solvothermal method", Journal of Superconductivity and Novel Magnetism, vol.33, pp.2199-2208, 03/2020, Published by Springer. (SCI, IF = 1.244).

Reviewer in International Journals and Conferences

Sl. No.	Faculty Name	Journal Name
1.	Dr. Animesh Kumar Ojha	Journal of Materials Science and Engineering B Vibrational Spectroscopy Journal of Raman Spectroscopy Journal of Photochemistry and photobiology A: Chemistry Nanotechnology Journal of Alloys and Compounds RSC Advances Spectrochimica Acta RSC Advances Journal of Physical Chemistry C Materials Chemistry and Physics Applied Surface Science
2.	Dr. Naresh Kumar	Journal of Electronic Materials Journal of Alloys and Compounds Journal of Materials Science: Materials in Electronics Applied Physics Letters Journal of Applied Physics International Conference on VLSI, Communication and Signal Processing (VCAS 2018) International Conference on Computing Applications in Electrical & Electronics Engineering (ICCAEEE-2019) 2 nd International Conference on Communication and Signal Processing (VCAS 2019) Journal of Electronic Materials International Conference on "Computing Applications in Electrical & Electronics Engineering Journal of Materials Science: Materials in Electronics Journal of Magnetism and Magnetic Materials

- | | | |
|----|------------------|---|
| 3. | Dr. P. P. Sahay | Super lattices and Microstructures
Thin Solid Films
Sensors and Actuators B
Chemical Physics Letters
Materials Research Bulletin
Journal of Alloys and Compounds
Materials Chemistry and Physics
Journal of Physics and Chemistry of Solids
Materials Science in Semiconductor Processing
Journal of Vacuum Science and Technology
Sensors & Actuators: B. Chemical
Chemical Engineering Journal |
| 4. | Dr. S. N. Pandey | International Journal of Nanoscience and Nanotechnology
Quantum Information Processing |

Book(s)/ Book Chapter Authored

Sl. No.	Faculty Name (Author/ Co-author)	Book	Book Chapter	Publisher
1.	Animesh K. Ojha & H. Michael Heise	Molecular Spectroscopy Experiment and Theory	A Comparative Study of Graphite, Single- and Multi-walled Carbon Nanotubes.	Springer

Invited Lectures Delivered

- | | | |
|----|--|--|
| 1. | Lecture delivered by Dr. Naresh Kumar at TEQIP III Sponsored Faculty Development Program "Advances in Composite Materials II | (ACM II- 2019)", Department of Mechanical Engineering MNNIT Allahabad on 17/12/2019 entitled Materials Characterisation. |
|----|--|--|

Events Organized by Department

Sl. No.	Name	Title	From	To
1.	Short Term Course jointly organized by KNIT Sultanpur under twinning activity of TEQIP-III	Application of MATLAB in Science and Technology (AMST-2019), MNNIT Allahabad	01.04.2019	05.04.2019
2.	Workshop	NBA Accreditation: Regulations and Procedure, MNNIT Allahabad	27.07.2019	27.07.2019
3.	Faculty Orientation Programme	Organized "Faculty Orientation Programme" as Coordinator, MNNIT Allahabad	18.09.2019	19.09.2019
4.	Workshop	Organized workshop on "Gender Sensitivity at Workplace: Equity & Equality" Co-Convener, MNNIT Allahabad	21.09.2019	21.09.2019
5.	Workshop	Gender Sensitivity at Workplace: Equity & Equality, MNNIT Allahabad	21.09.2019	21.09.2019
6.	National conference	Industrial Applications of Nanoscience & Nanotechnology – IANN-2019, MNNIT Allahabad	15.11.2019	16.11.2019

Events Attended

- | | | |
|----|---|--|
| 1. | Dr. Animesh Kumar Ojha attended Short Term Course on Application of MATLAB in Science | and Technology at MNNIT during 01/04/2019 to 05/04/2019. |
| 2. | Dr. Naresh Kumar attended International conference on Chem-Conflux20: Energy and | |

Environmental Technologies for Sustainable Development at MNNIT Allahabad during 14/02/2020 to 16/02/2020.

Environmental Technologies for Sustainable Development at MNNIT Allahabad during 14/02/2020 to 16/02/2020.

3. Dr. Naresh Kumar attended International conference on BioSangam 2020: Biotechnological Interventions for Societal Development at MNNIT Allahabad during 21/02/2020 to 22/02/2020.
5. Dr. Animesh K. Ojha attended International Conference on Bio Sangam 2020: Biotechnological Interventions for Societal Development at MNNIT Allahabad during 21/02/2020 to 22/02/2020.
4. Dr. Animesh K. Ojha attended International conference on Chem-Conflux20: Energy and

Research Projects Completed/Ongoing

Sl. No.	Principal Investigator /Co investigator(s)	Project Title	Funding Agency	Amount (INR)	Duration
1.	Dr. Naresh Kumar (Co-PI)	Exploiting the Zn-ferrite thin films material an assortment of spintronics devices.	India-Bulgaria Joint Research Project, Approved for two years (2019-2021)	11.42 Lakhs	Ongoing
2.	Dr. Naresh Kumar (PI)	Development of ferrite-semiconductor composite hollow nanospheres based sensors for enhanced bio and gas sensing performance.	CSIR	16.00 Lakhs	Ongoing
3.	Dr. Animesh K. Ojha	Spectroscopic Investigations of Environmental Stability of Transition Metals Doped Methylammonium Lead Iodide Perovskite for Solar Energy Harvesting.	DFG (Germany)	7.00 Lakhs	Three Months

10.14 SCHOOL OF MANAGEMENT STUDIES

Vision

To create managers who have the competence to operate efficiently at the domestic and global levels through their knowledge, skills and creativity with personal integrity and social responsibility.

Mission

To be a provider of globally competitive, high quality managerial human resource. To promote and significantly contribute towards development of technologies and innovation appropriate to sustainable economic growth and enrichment of quality of life.

List of Laboratories:

1. Digital Management Laboratory.
2. Behavioral Dynamics Laboratory.
3. Management Research Laboratory.

Courses Run By Department:

1. Master of Business Administration.
2. Ph.D.

Courses in which students were admitted during 04/2019 - 03/2020 :

1. Master of Business Administration.
2. Ph.D.

List of Ph.D. Thesis Completed

Sl.No.	Name of Student	Reg. No.	Thesis Title	Thesis Supervisor(s)
1.	Pravin Kumar Agrawal	2015RMS04	An Empirical Study of Causality and Cointegration of Indian Stock Markets with	Prof. Tanuj Nandan

2.	Ashutosh Pratap Singh	2014RMS51	Developed and Emerging Economies Impact of Ownership Structure on Financial Performance of Firms: A Study of NSE 100 Index Companies	Prof. Tanuj Nandan
3.	Monika Singh	2015RMS02	Developing a Model for Behavioral Intention to Adopt Green Information Systems: A Study of Indian Banking and Information Technology Industries	Prof. G. P. Sahu

Publication in International Journals

- Shukla, A., Geetika & Tiwari, N., "Consumer perception of corporate social responsibility and purchase behaviour", *International Journal of Business Excellence*, vol.18, Issue 1, pp.22-41, 04/2019, Published by Inderscience Publisher. (Scopus, IF = .19)
- Bodhi, R., Singh, T., & Rahman, S. (2020). Recent themes in social media research: A Systematic Review. *International Journal of Business Information System*. (Accepted). <https://doi.org/10.1504/IJBIS.2020.10020223>; SCOPUS, C listed H Index: 22. Accepted
- Rahman, S., & Singh T. (2019). Dimensions of Employee Satisfaction with Compensation: Scale Development and Validation. *International Journal of Business Excellence*. (Accepted) Scopus, C listed, H Index: 15.
- Chawla, G., Singh, T., & Singh, R. (2019). Operationalizing the Antecedents and Outcomes of Union Participation in the Indian Context. *Journal of Indian Business Research* (Accepted); SCOPUS, C listed, H Index: 15
- Shivanjali, Singh, M. & Singh, T. (2019). Competency Mapping: A Strategic Perspective in Employee Retention. *International Journal of Recent Technology and Engineering (IJRTE)*, 8(2), pp. 3890-3898. SCOPUS Listed
- Bodhi, R., Joshi, Y., & Singh, T. (2020). Examining the influence of social media use and trend affinity on collaborative consumption. *Proceedings of the 4th International Conference for Marketing Challenges in Emerging Markets, Institute of Management Technology Hyderabad (ISBN No.978-93-5286-306-6)*; Book Chapter
- Somen Dey, R. R. K. Sharma and B. K. Pandey, "Relationship of manufacturing flexibility with organizational strategy", *Global Journal of Flexible Systems Management*, vol.20, Issue 3, pp.237-256, 05/2019, Published by Springer. (SCI)
- Shukla, S. & Kumar, R. (2019). Role of Trust in Adoption of Online Good and Service Tax Filing in India. *Vikalpa: The Journal of Decision Makers*, 44(3), 99-114 (Scopus)
- Shukla, S. & Kumar, R. (2020). Researcher's Intention to use Statistical Software: Examine the Role of Statistical Anxiety, Self-efficacy and Enjoyment. *International Journal of Technology and Human Interaction (IGI Publications)*, 16 (3) 39-55. (Scopus; ABDC 'C' List)
- Kumar, R., & Kaushal, S. (2019). A study of factors affecting consumer behaviour towards electronic durable goods. *Indian Journal of Marketing*, 49(7), 35-48. (Scopus, ABDC 'C' List)
- Ghosh, P., Goel, G., Dutta, T., & Singh, R. , "Turnover intention among liquid knowledge workers: a study of Indian insurance professionals", *Journal of Global Operations and Strategic Sourcing*, vol.12, Issue 2, pp.288-309, 06/2019, Published by Emerald Publication. (Scopus, IF = .85)
- Yadav, S. K., Tripathi, V., & Goel, G., "Mediating effect of innovation with market orientation and performance relationship", *Management Research: Journal of the Iberoamerican Academy of Management*, vol.17, Issue 2, pp.152-167, 07/2019, Published by Emerald Publication. (Scopus, IF = .73)
- Yatish Joshi, Deepak Sangroya, Anugamini Priya Srivastava, Mayank Yadav, "Modelling the predictors of young consumers' sustainable consumption intention", *International Journal of Nonprofit and Voluntary Sector Marketing*, vol.24, Issue 4, 11/2019, Published by Wiley. (Scopus)

14. Panda, P., Sahu, G. P., & Gupta, B. (2019). E-government procurement implementation in India: evolving decision parameters for project success. *International Journal of Business Information Systems*, 31(3), 414-454. (Scopus, SJR)
 15. Hmar, R., Geetika, & Tiwari, N. (2020) "Entrepreneurship in a Protected Region with Limited Infrastructure: A Study of Mizoram State in India". *International Journal of Business Excellence*. (Accepted for publication on 4 May 2020) Scopus
 16. Tiwari, N., & Goel, Geetika (2020). Empirical Analysis of Women Entrepreneurs and their Success Perception. *International Journal of Entrepreneurship and Small Business*. Vol. 39 No. 4, pp 501-529. (Published on 6 April, 2020) (Scopus)
 17. Shukla, A., Goel, Geetika, & Shukla, N. (2019). Evaluating the impact of corporate social responsibility expenditure on profitability of energy sector firms in India. *International Journal of Sustainable Society*, 11(3), 220-234. (Published on 19 November, 2019) Scopus
 18. Yadav, S. K., Tripathi, V., & Goel, Geetika (2019). Mediating effect of innovation with market orientation and performance relationship. *Management Research: Journal of the Iberoamerican Academy of Management*. Vol. 17 No. 2, 2019 pp. 152-167 (ISSN: 1536-5433, Publication date: 17 July 2019) Scopus, H index-15
 19. Ghosh, P., Goel, Geetika, Dutta, T., & Singh, R. (2019) Turnover intention among liquid knowledge workers: a study of Indian insurance professionals. *Journal of Global Operations and Strategic Sourcing*, Vol. 12 No. 2, 2019 pp. 288-309 (May, 3), Scopus
- Jaipuria Institute of Management Indore, in , '3rd Jaipuria International Conference on Envisioning Business 2030', Track Human Resource Management, Awarded Best Paper. (accepted for publication in Conference Proceedings)
2. Vibhuti Tripathi & Shobha Mishra, "Segmentation Framework for Luxury Market in India", International Conference on "Sustainable Management Practices (ICSMP 2019), Ansal University, Gurgaon from April 25-26, 2019, 04/2019.
 3. Wairiya, M., Shah, A., & Sahu, G. P. (2020, January). Mobile Learning Adoption: An Empirical Study. In 2020 10th International Conference on Cloud Computing, Data Science & Engineering (Confluence) (pp. 757-761). IEEE.
 4. Shobha Mishra, Vibhuti Tripathi, "Role Of Internal Marketing in Quality of Service Delivery: Study of Star Rated Hotels in Uttar Pradesh", International Conference on Contemporary Issues in "Engineering, Agriculture, Applied Sciences and Humanities (EAH-2019), NIT Srinagar, pp.209-215, 06/2019, Published by Krishi Sanskriti Publications.
 5. Rosanpuii Hmar, Geetika, (2019). "Linkages between Skill and Intention to Migrate for Economic Opportunities: Perception of Students of Higher Technical Education in Allahabad" in International Conference 2019 on Human Resource Development and MSME Development Special Focus on: SAARC and ASEAN Countries, EDII, January 17-18, 2019, Gandhinagar. (Accepted for publication)

Publication in International Conference

1. Singh Tripti, Sachedeva Chetan, 'A Conceptual Clarity on Green HRM and exploring the Antecedents and Consequences'.organised by

Reviewer in International Journals and Conferences

Sl. No.	Faculty Name	Journal Name
1.	Prof. Ganesh Pd. Sahu	International Journal of E-Governance International Journal of E-Governance Research American Conference on Information Systems

		The Annual Americas Conference on Information Systems (AMCIS)
		International Journal of Information Management
2.	Dr. Somen Dey	Opsearch
		Management of Environmental Quality
3.	Prof. Tanuj Nandan	International Journal of Industrial and Systems Engineering
		Asia Pacific Journal of Marketing and Logistics
		Journal of Business Strategy Finance and Management
		Journal of Quantitative Economics
		International Journal of Housing Markets and Analysis
		International Journal of Industrial and Systems Engineering (IJISE)
4.	Dr. Tripti Singh	Journal of Humanitarian Logistics and Supply Chain Management
		Benchmarking: An International Journal
		Management Business Review

Invited Lectures Delivered

- Lecture delivered by Dr. Vibhuti Tripathi at Lecture on Hunar Se Rozgar Tak Scheme, Army Wives' Welfare Association, 4 Rapid Signal Regiment (AREN) on 24/04/2019 entitled हुनर से रोजगार तक-पर्यटन और आतिथ्य के क्षेत्र में प्रशिक्षण और नौकरी के अवसर।
- Lecture delivered by Prof. Ganesh Pd. Sahu at seven day Training Programme on Academic Leadership for Higher Educational Institutions, V.B.S. Purvanchal University Jaunpur on 24/04/2019 entitled Technology for effective governance Creating a Green Campus: Experiential Lessons and insights.
- Lecture delivered by Prof. Tanuj Nandan at PhD Coursework Program, Department of Commerce and Business Administration, University of Allahabad on 02/05/2019 entitled An Introduction to Social Science Research using SPSS.
- Lecture delivered by Prof. Tanuj Nandan at PhD Coursework Program, Department of Commerce and Business Administration on 03/05/2019 entitled Statistics for Research- Building Blocks.
- Lecture delivered by Prof. Ganesh Pd. Sahu at Faculty Induction Programme, Coimbatore Institute of Technology on 10/05/2019 entitled Assessment and Evaluation.
- Lecture delivered by Prof. Tanuj Nandan at Teqip-III and AKTU sponsored Faculty Development Program on Entrepreneurship Development, Shambhunath Institute of Engineering, Allahabad on 01/07/2019 entitled Indian Startups - Strategies for Success.
- Lecture delivered by Dr. Vibhuti Tripathi at Orientation Program, Faculty Development Centre, Ishwar Saran Degree College on 23/07/2019 entitled Infusing Technology in Classrooms for Effective Teaching & Learning.
- Lecture delivered by Prof. Tanuj Nandan at Orientation Course, Faculty Development Centre (under the scheme of PMMMNMTT, MHRD, Government of India), Iswar Saran PG College, University of Allahabad on 27/07/2019 entitled A Digital Nation: From Divide to Empowerment.
- Lecture delivered by Dr. Tripti Singh at AG Office on 30/07/2019 entitled Conflict Management and Communication skills development.
- Lecture delivered by Prof. Tanuj Nandan at Course no. 6A/2019-20 on Soft Skills, Regional Training Institute, A. G. Office Allahabad on 31/07/2019 entitled Communication Skills.
- Lecture delivered by Prof. G. P. Sahu at Faculty Development Programme on "Publishing research in high impact journals" at Coimbatore Institute of Technology in 2019.
- Lecture delivered by Prof. Geetika on 'Equity and Equality' during National Workshop on Gender Sensitivity, on 09/01/2020 at APS University Rewa.
- Centenary Lecture delivered by Prof. Geetika on 'Slowdown in Indian Economy' on 11/10/2019 at DAV College, Kanpur.
- Lecture delivered by Prof. Geetika on 'Skill-training Mapping' on 16/09/2020 as Guest of Honour at the Annual Function of D. H. National

- Board for Workers Education and Development, (Regional Directorate, Allahabad).
15. Lecture delivered by Prof. Geetika on 'Ethical Nuances of Teaching Profession' on 18/09/2020 at Orientation programme for Young Faculty, Motilal Nehru National Institute of Technology Allahabad.
 16. Special Lecture delivered by Prof. Geetika on 'Entrepreneurship and Design theme' on 03/04/2019 at IPS, Allahabad University.
4. Lecture delivered by Prof. Tanuj Nandan at National Workshop on Research Methodology and Statistical Analysis using SPSS and AMOS, DAV PG College, BHU Varanasi on 15/02/2020 entitled Statistical Analysis for Research.
 5. Lecture delivered by Dr. Rakesh Kumar on 'Introduction to R & R Studio' at School of Management, Babu Banarasi Das University Lucknow on October 19, 2019.
 6. Lecture delivered by Dr. Rakesh Kumar in One Week Short tem Course on 'Research Methods and Data Analysis using SPSS & AMOS (RMDASM-2020)' held during January 27-31, 2020, organized by Madam Mohan Malviya University of Technology Gorakhpur.
 7. Lecture delivered by Dr. Somen Dey at AICTE Sponsored Faculty Development Program, MED, KNIT Sultanpur, Uttar Pradesh on 11/2019 entitled Process Improvement Methodologies (Lean and Six Sigma).
 8. Prof. Geetika participated in workshop on Gender Sensitivity at Workplace: Equity and Equality, held on September 21, 2019, organised by Women Advisory Cell, MNNIT and Chief Warden Girls, sponsored by TEQIP III. Minister of State, independent charge, Women Welfare, UP and Wellness Experts, Ms. Swati Singh.

Events Organized by Department

1. Lecture delivered by Dr. Vibhuti Tripathi at Two Day Course on Soft Skills, Regional Training Institute, Allahabad, Indian Audit & Accounts Department on 31/07/2019 entitled Change Management.
2. Lecture delivered by Prof. Tanuj Nandan at Short Term Training Program on Data Analysis with SPSS Software, HBTU Kanpur on 22/10/2019 entitled Advanced Data Analysis using SPSS.
3. Lecture delivered by Prof. Tanuj Nandan at Workshop on Research Methodology, Dr. H S Gour Central University Sagar on 17/12/2019 entitled an Introduction to Statistical Analysis using SPSS.

Events Organized by Department

Sl. No.	Name	Title	From	To
1.	Workshop	Suicide Prevention and Mental Well Being: Awareness and Interventions, Mnnit Allahabad.	20.06.2019	20.06.2019
2.	Workshop	Short Term Training Program on Publishing Research in High Value Journals, Mnnit Allahabad.	30.07.2019	03.08.2019
3.	Workshop	Orientation of Students for 'Mental well Being and Indicators', Hostels, Mnnit Allahabad.	03.08.2019	03.08.2019
4.	ATAL Training Program	Blockchain	16.09.2019	20.09.2019
5.	STTP	Developing Massive Open Online Courses (MOOCs)	27.09.2019	01.10.2019
6.	GIAN Training Program`	Econometric Techniques for Research in Management and Social Sciences	25.11.2019	29.11.2019
7.	ATAL Training Program	Artificial Intelligence	10.12.2019	14.12.2019
8.	Faculty Development Program	Data Analytics and its Applications in Management (STTP-DAAM), School of Management Studies MNNIT Allahabad.	04.02.2020	08.02.2020

Events Attended

1. Prof. Tanuj Nandan attended National conference on Innovations and Futuristic Practices in Business and Management at University of Allahabad on/during 07/02/2020 to 08/02/2020.

Research Projects Completed/Ongoing

Sl. No.	Principal Investigator /Co investigator(s)	Project Title	Funding Agency	Amount (INR)	Duration
1.	Prof. G. P. Sahu (PI)	Aakash Project	NME-ICT, MHRD, Government of India (through IIT Bombay)	6.00 Lakhs	Ongoing
2.	Prof. G. P. Sahu (PI)	Teach 10000 Teachers (T10KT) NME-ICT Remote Centre	NME-ICT, MHRD Government of India (through IIT Bombay)	7.50 Lakhs	Ongoing
3.	Prof. G. P. Sahu (PI)	National Mission Project on Pedagogy	NME-ICT, MHRD, Govt. of India (through IIT Kharagpur)	7.00 Lakhs	Ongoing
4.	Prof. G. P. Sahu (PI)	Developing a Model for Effective Adoption of Solar Energy Systems in India	IMPRESS ICSSR, New Delhi	12.00 Lakhs	Ongoing

Other Relevant Information

1. Prof. Tanuj Nandan received Bharat Vikas Award on 12/2019.
2. Prof. G. P. Sahu, Provided consultancy in design and delivery of 'Faculty Orientation Program' at Coimbatore Institute of Technology in 2019.
3. Prof. G. P. Sahu, Provided consultancy in design and execution of program on "Publishing research in high impact journals" at Coimbatore Institute of Technology in 2019.
4. Prof. G. P. Sahu, Develop an evaluation model for e-governance projects for computer society of India (CSI)-Nihilent e- governance award in 2019.
5. Prof. G. P. Sahu, Audited e-filing system of 'Ministry of Women and Child Development' Government of India in 2019.
6. Prof. G. P. Sahu, Working as Coordinator, NRC of Biomedical Engineering, for SWAYAM programme of Government of India.
7. Prof. G. P. Sahu, Working as "Nodal Officer, MNNIT Allahabad" for Digital India Programme of Government of India.
8. Prof. G. P. Sahu, Local Coordinator, Global Initiative of Academic Networks (GIAN), July 2015- till date.
9. Prof. G. P. Sahu, Remote Centre Co-ordinator, May 2013 - till date.



AESM-2019 (April 1-5, 2019)



GIAN (April 01-12, 2019)



ISANH-2019 (December 17-18, 2019)



Bio Sangam (February 21-23, 2020)

FINANCIAL AND ACCOUNT DETAILS

11.1 Financial and Account Report

11.2 Annual Account 2019-20

11.1 FINANCIAL AND ACCOUNT REPORT



स्पीड पोस्ट द्वारा

कार्यालय महानिदेशक लेखापरीक्षा (केन्द्रीय) लखनऊ
शाखा कार्यालय – प्रयागराज
Office of the Director General of Audit (Central) Lucknow
Branch Office – Prayagraj
15-ए, दयानन्द मार्ग, सत्यनिष्ठा भवन, प्रयागराज
15-A, Dayanand Marg, Satyanishtha Bhawan, Prayagraj – 211 001

पत्र सं० म.नि.ले.प. (कें)/एस.ए.आर.-36/2020-21/

दिनांक: .03.2021

सेवा में,

सचिव, भारत सरकार,
मानव संसाधन विकास मंत्रालय,
उच्च शिक्षा विभाग, शास्त्री भवन,
नई दिल्ली- 110001

विषय : मोती लाल नेहरु राष्ट्रीय प्रौद्योगिकी संस्थान, इलाहाबाद के वर्ष 2019-20 के लेखों पर पृथक लेखापरीक्षा प्रतिवेदन।
महोदय,

इस पत्र के माध्यम से मोती लाल नेहरु राष्ट्रीय प्रौद्योगिकी संस्थान, इलाहाबाद के वर्ष 2019-20 के लेखों पर पृथक लेखापरीक्षा प्रतिवेदन (अंग्रेजी) की प्रति अग्रसारित की जा रही है।

2. कृपया सुनिश्चित करें कि पृथक लेखापरीक्षा प्रतिवेदन एवं सम्बन्धित लेखे संसद के दोनों सदनों के सम्मुख प्रस्तुत हुए।

3. कृपया पृथक लेखापरीक्षा प्रतिवेदन एवं लेखों को संसद के दोनों सदनों के समक्ष अन्तिम रूप-से प्रस्तुत करने की तिथि भारत के नियंत्रक एवं महालेखापरीक्षक के साथ-साथ इस कार्यालय को भी सूचित करने का कष्ट करें।

संलग्नक: उपर्युक्तानुसार।

भवदीय,

महानिदेशक लेखापरीक्षा (केन्द्रीय)

पत्र सं० म.नि.ले.प. (कें)/एस.ए.आर.-36/2020-21/153 दिनांक: 01.03.2021
निदेशक, मोती लाल नेहरु राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद 211004 (उत्तर प्रदेश) को संस्थान के वर्ष 2019-20 के लेखों पर पृथक लेखापरीक्षा प्रतिवेदन (अंग्रेजी) की प्रति आवश्यक कार्यवाही हेतु प्रेषित है। संस्थान यदि आवश्यकता अनुभव करे, तो इस प्रतिवेदन का हिन्दी अनुवाद करवा सकता है परन्तु इस प्रतिवेदन के हिन्दी अनुवाद में निम्नलिखित अंकित होना चाहिए:

“प्रस्तुत प्रतिवेदन मूलरूप से अंग्रेजी में लिखित पृथक लेखापरीक्षा प्रतिवेदन का हिन्दी अनुवाद है। यदि इसमें कोई विसंगति परिलक्षित होती है तो अंग्रेजी में लिखित प्रतिवेदन मान्य होगा।”

हिन्दी अनुवाद की एक प्रति इस कार्यालय को भी प्रेषित करने का कष्ट करें।

संलग्नक: उपर्युक्तानुसार।

निदेशक (केन्द्रीय व्यय)

Separate Audit Report of the Comptroller & Auditor General of India on the Accounts of Motilal Nehru National Institute of Technology Allahabad, Prayagraj for the year ended 31 March 2020

We have audited the attached Balance Sheet of Motilal Nehru National Institute of Technology Allahabad, Prayagraj (Institute) as at 31 March 2020, the Income and Expenditure Account and Receipts and Payments Account for the year ended on that date under Section 19(2) of the Comptroller and Auditor General's (Duties, Powers and Conditions of Service) Act, 1971 read with section 22(2) of the National Institute of Technology act, 2007. These financial statements are the responsibility of the Institute's management. Our responsibility is to express an opinion on these financial statements based on our audit.

2. This Separate Audit Report contains the comments of the Comptroller & Auditor General of India (CAG) on the accounting treatment only with regard to classification, conformity with the best accounting practices, accounting standards and disclosure norms, etc. Audit observations on financial transactions with regard to compliance with the Law, Rules & regulations (Propriety and Regularity) and efficiency-cum-performance aspects, etc., if any are reported through Inspection Reports/CAG's Audit Reports separately.

3. We have conducted our audit in accordance with auditing standards generally accepted in India. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements. An audit includes examining on a test basis, evidences supporting the amounts and disclosure in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of financial statements. We believe that our audit provides a reasonable basis for our opinion.

4. Based on our audit, we report that:

(i) We have obtained all the information and explanations, which to the best of our knowledge and belief were necessary for the purpose of our audit;

(ii) The Balance Sheet, Income and Expenditure Account and Receipts and Payments Account dealt with by this report have been drawn up in the format of Financial Statements for Central Higher Educational Institutions prescribed by MHRD, Government of India.

(iii) In our opinion, proper books of accounts and other relevant records have been maintained by the Motilal Nehru National Institute of Technology Allahabad, Prayagraj under section 22(1) of the National Institute of Technology act, 2007 in so far as it appears from our examination of such books.

(iv) We further report that:

(A) Grants-In-Aid

During the year 2019-20 the Institute received Grant-in-aid of ₹ 121.49 crore. After taking opening balance of ₹ 132.84 crore the total fund available worked out to ₹ 254.33 crore. The Institute utilized ₹ 144.45 crore leaving balance of ₹ 109.88 crore as on 31st March 2020.

(v) Subject to our observation in the preceding paragraphs, we report that the Balance Sheet, Income and Expenditure Account and Receipts and Payments Account dealt with by this report are in agreement with the books of accounts.

(vi) In our opinion and to the best of our information and according to the explanation given to us, the said financial statements read together with the accounting policies and notes on accounts, and subject to the significant matters stated above and other matters mentioned in annexure give a true and fair view in conformity with the accounting principles generally accepted in India.

(a) In so far as it relates to the Balance Sheet, of the state of affairs of the Motilal Nehru National Institute of Technology Allahabad, Prayagraj as at 31 March 2020, and

(b) In so far as it relates to Income & Expenditure Account of the 'Surplus' for the year ended on that date.

For and on behalf of the C & AG of India

Director General of Audit (Central)

Place: Lucknow

Date: 1.3.2021

Annexure

1. Adequacy of Internal Audit System

Internal audit of the Institute was not carried out for the year 2019-20.

2. Adequacy of Internal Control System

Internal Control System in the Institute is characterised by non-fulfillment of the vacancies as 347 staff were posted against 760.

3. System of Physical Verification of Fixed Assets

Physical verification of Fixed Assets has been conducted for the year 2019-20.

4. System of physical verification of Inventories

Physical verification of Inventories has been conducted for the year 2019-20.

5. Regularity in payment of statutory dues

The Institute is regular in payment of statutory dues.


Director (CE)

11.2 ANNUAL ACCOUNTS: 2019-20

**MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
BALANCE SHEET AS AT 31ST MARCH 2020**

(Amount-Rs)

Sources of funds	Sch	Current year	Previous year
Corpus/capital fund	1	2,24,56,79,524.35	2,20,94,37,962.41
Designated/ earmarked funds	2	1,65,72,81,392.59	1,23,52,26,494.88
Current liabilities and provisions	3	2,05,57,66,417.66	1,89,87,42,374.40
Total		5,95,87,27,334.60	5,34,34,06,831.69
Application of funds	Sch	Current year	Previous year
Fixed assets			
Tangible assets	4	1,60,27,80,125.92	1,62,59,61,443.07
Capital work-in-progress	4	53,40,70,984.35	20,13,40,614.35
Intangible assets	4	1,06,35,926.00	91,01,480.00
Investments from earmarked/endowment funds:	5		
Long term		88,35,97,471.17	1,17,40,43,592.76
Short term			
Investment others	6	77,93,89,250.00	43,86,47,780.00
Current assets	7	1,38,63,82,263.51	1,39,67,30,998.86
Loans, advances & deposits	8	76,18,71,313.65	49,75,80,922.65
Total		5,95,87,27,334.60	5,34,34,06,831.69
Significant accounting policies	23		
Contingent liabilities and notes to accounts	24		

DY. REGISTRAR (A/CS)

REGISTRAR

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2020

(Amount-Rs)

Particulars	Sch	Current year	Previous year
Income			
Academic receipts	9	40,48,00,587.34	38,41,50,049.46
Grants & donations	10	1,19,23,48,629.66	1,03,79,73,075.73
Income from investments	11	-	-
Interest earned	12	11,34,26,514.00	10,03,06,248.00
Other incomes	13	7,31,02,344.49	4,45,00,034.83
Prior period income	14	-	-
Total (a)		1,78,36,78,075.49	1,56,69,29,408.02
Expenditure			
Staff payments & benefits	15	95,59,22,748.00	1,15,66,80,161.04
Academic expenses	16	23,22,30,051.58	22,44,45,824.45
Administrative and general expenses	17	25,34,26,539.00	23,95,49,479.69
Transportation expenses	18	11,04,459.00	12,77,804.00
Repair & maintenance	19	4,66,46,186.00	4,55,11,416.00
Finance costs	20	1,39,031.38	93,920.27
Other expenses	21	13,47,630.00	2,59,330.00
Prior period expenses	22	1,22,55,600.00	1,88,391.00
Depreciation		10,53,62,560.90	10,51,85,164.00
Total (b)		1,60,84,34,805.86	1,77,31,91,490.45
Balance being excess of income over expenditure (a-b)		17,52,43,269.63	(20,62,62,082.43)
Transfer to /from designated fund, building fund, others) - apportioned amount of depreciation towards assets purchased out of capital fund		10,53,22,322.90	10,51,01,871.00

Balance being surplus/(deficit) carried to general fund		28,05,65,592.53	(10,11,60,211.43)
Significant accounting polices	23		
Contingent liabilities and notes on accounts.	24		

DY. REGISTRAR (A/CS)

REGISTRAR

SCHEDULE FORMING PART OF BALANCE SHEET
SCHEDULE 1- CORPUS / CAPITAL FUND

(Amount-Rs)

Particulars	Capital fund-institute	Capital fund-subsidaries (ref annexure a (1))	Current year	Previous year
Institute				
Balance as at the beginning of the year	1,99,93,34,567.39	21,01,03,395.02	2,20,94,37,962.41	3,08,99,54,873.93
Add: Contributions towards Corpus/Capital Fund	-		-	-
Add: Grant from UGC, Government of India and State government to the extent utilized for capital expenditure	24,29,56,198.00		24,29,56,198.00	24,55,17,610.35
Add: Assets Purchased out of Earnmarked Funds	-	-	-	-
Add: Assets Purchased out of Sponsored Projects, where ownership vests in the institution	-	-	-	-
Add: Assets Donated/Gifts Received	-	-	-	-
Add: Other Additions	-	-	-	-
Add: Amount of Capital Expenditure out of Grant	-	-	-	-
Add: Excess of Income over expenditure transferred from the Income and Expenditure Account	28,05,65,592.53	3,93,36,954.90	31,99,02,547.43	(5,25,13,778.45)
Total	2,52,28,56,357.92	24,94,40,349.92	2,77,22,96,707.84	3,28,29,58,705.83
Add/(Less): Adjustments	-	(2,09,96,402.59)	(2,09,96,402.59)	(2,00,21,757.61)
Less: Apportioned Amount of Depreciation	10,53,22,322.90	-	10,53,22,322.90	10,51,01,871.00
Less: Transfer to Corpus Fund as per 52 FC-52.06	40,02,98,458.00		40,02,98,458.00	70,81,35,802.37
Less: Transfer to Grant Head Salary (OH-36)	-	-	-	24,02,61,312.44
Balance as at the end of the year	2,01,72,35,577.02	22,84,43,947.33	2,24,56,79,524.35	2,20,94,37,962.41

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE A(1) OF SCH 1

FUND ACCOUNT - SUBSIDIARIES

(Amount in Rs.)

Particulars	Opening Balance as on 01/04/2019	Add: Income (as per Annexure i)	Less: Expense (as per Annexure ii & iii)	Adjustment	As at March 31, 2020	As at March 31, 2019
Alumni Association	1,32,13,229.59	-	-	(1,32,13,229.59)	2,64,26,459.18	1,32,13,229.59
Dean Academic Affairs	7,25,20,069.48	24,93,112.00	1,08,86,924.50		6,41,26,256.98	7,25,20,069.48
G. K. Agarwal Trust	2,91,336.00	6,26,754.00	70.80		9,18,019.20	2,91,336.00
Industrial Estate	3,76,40,244.13	29,27,077.00	16,57,096.50		3,89,10,224.63	3,76,40,244.13
Nodal Centre	(3,89,725.00)		17,477.00		(4,07,202.00)	(3,89,725.00)
P.D.T.C.	(1,86,123.00)	8,035.00			(1,78,088.00)	(1,86,123.00)
Project Account	(7,16,400.27)	1,10,69,590.00	77,28,903.00		26,24,286.73	(7,16,400.27)
Research & Consultancy Cell	1,32,44,887.58	1,82,60,589.00	53,72,394.00	(78,00,000.00)	1,83,33,082.58	1,32,44,887.58
SNFCE	1,37,47,201.00	14,26,145.00	11,37,172.00		1,40,36,174.00	1,37,47,201.00
Sponsored Gold Medal	7,75,903.00	14,64,708.00	3,76,451.80		18,64,159.20	7,75,903.00
Student Welfare Fund	2,43,08,409.51	1,64,38,431.00	16,17,242.00		3,91,29,598.51	2,43,08,409.51
TEQIP - III	3,52,81,434.00	3,82,01,041.00	2,48,15,173.50	16,827.00	4,86,67,301.50	3,52,81,434.00
Text Book Lending Bank	3,72,929.00	41,697.00	11,319.00		4,03,307.00	3,72,929.00
Total	21,01,03,395.02	9,29,57,179.00	5,36,20,224.10	(2,09,96,402.59)	25,48,53,579.51	21,01,03,395.02

SCHEDULE FORMING PART OF BALANCE SHEET

SCHEDULE 2-EARMARKED/ENDOWMENT FUNDS

(Amount-Rs)

Particulars	Fund -Wise Break UP							Total	
	GPF	CPF	NPS	Corpus Fund	Staff Development	Development/ Renewal Fund	Maintenance Fund	Current year	Previous year
A.									
a) Opening balance of the	27,47,94,701.00	1,40,69,040.57	73,55,844.00	93,48,46,975.59	19,51,399.84	11,04,543.94	11,03,989.94	1,23,52,26,494.88	48,53,65,616.08

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funds									
b) Additions during the year								-	-
c) Income from investments made of the funds (Interest from Autosweep)			2,41,972.00	9,73,622.00	19,087.00	17,933.00	17,894.00	12,70,508.00	12,13,348.00
d) Accrued interest on investments of the funds	1,66,82,676.00	8,64,190.41		72,34,617.00	88,602.00	40,609.00	40,609.00	2,49,51,303.41	2,33,39,336.00
e) Interest on Saving Bank a/c	1,34,790.00	24,272.00	22,486.00	2,31,253.00	3,776.00	3,737.00	3,737.00	4,24,051.00	4,18,858.00
f) Other additions (specify nature)								-	-
TDS 2019-20		64,649.00		7,98,482.00	9,841.00	4,511.00	4,511.00	8,81,994.00	8,86,623.00
TEQIP								-	1,80,268.00
R&C Cell & Project A/c								-	3,83,00,000.00
Transfer from Institute-Capital Fund				40,02,98,458.00				40,02,98,458.00	70,81,35,802.37
Employee Subscription	4,29,44,865.00	8,31,739.00	5,77,07,257.00					10,14,83,861.00	8,38,96,653.00
TOTAL (A)	33,45,57,032.00	1,58,53,890.98	6,53,27,559.00	1,34,43,83,407.59	20,72,705.84	11,71,333.94	11,70,740.94	1,76,45,36,670.29	1,34,17,36,504.45
B.									
Utilization/Expenditure towards objectives of funds									
i. Capital Expenditure								-	-
Payment to Subscriber	4,17,15,866.00	67,77,130.00						4,84,92,996.00	5,81,62,235.00
Payment to NSDL			5,83,95,882.00					5,83,95,882.00	4,82,75,146.00
ii. Revenue Expenditure	413.00	64,649.00	135.70	2,99,583.00	603.00	508.00	508.00	3,66,399.70	72,628.57
Total (B)	4,17,16,279.00	68,41,779.00	5,83,96,017.70	2,99,583.00	603.00	508.00	508.00	10,72,55,277.70	10,65,10,009.57
Net Balance as at the Year End (A-B)	29,28,40,753.00	90,12,111.98	69,31,541.30	1,34,40,83,824.59	20,72,102.84	11,70,825.94	11,70,232.94	1,65,72,81,392.59	1,23,52,26,494.88

(Amount-Rs)

Represented by:	Fund –Wise Break UP							Total	
	GPF	CPF	NPS	Corpus Fund	Staff Development	Development/ Renewal Fund	Maintenance Fund	Current year	Previous year
Cash & Bank Balance	29,40,967.00	1,13,413.12	69,31,541.30	75,84,14,051.00	4,40,574.00	4,23,042.00	4,22,449.00	76,96,86,037.42	5,80,67,012.12
Investments	28,45,84,980.00	85,03,277.00	-	55,84,81,753.00	15,41,909.00	7,06,706.00	7,06,706.00	85,45,25,331.00	1,12,45,84,044.00
Interest accrued but not due	53,14,806.00	22,532.86	-	2,36,36,596.59	51,236.84	23,483.94	23,483.94	2,90,72,140.17	4,94,59,548.76
TDS	-	3,72,889.00	-	35,51,424.00	38,383.00	17,594.00	17,594.00	39,97,884.00	31,15,890.00
Net Balance as at the Year End (A-B)	29,28,40,753.00	90,12,111.98	69,31,541.30	1,34,40,83,824.59	20,72,102.84	11,70,825.94	11,70,232.94	1,65,72,81,392.59	1,23,52,26,494.88

**SCHEDULE FORMING PART OF BALANCE SHEET
SCHEDULE 3 - CURRENT LIABILITIES & PROVISIONS**

(Amount-Rs)

Particulars	Current Year	Previous Year
A. Current Liabilities		
1. Deposits from staff	-	-
2. Deposits from students	-	-
3. Sundry Creditors	-	-
a) For Goods & Services	-	-
b) Others (Refer Annexure B (1))	32,27,93,250.00	80,57,557.00
4. Deposit-Others(Including EMD, Security Deposit)	-	-
5. Statutory Liabilities (GPF,TDS,WC TAX,CPF,GIS,NPS):	-	-
a) Overdue	-	-
b) Others (Refer Annexure B (2))	1,01,57,498.00	15,76,689.00
6. Other current Liabilities	-	-
a) Salaries	-	-
b) Receipts against sponsored projects	-	-
c) Receipts against sponsored fellowships & scholarships (Refer Annexure B (3))	19,41,55,772.40	18,66,77,957.40

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d) Unutilised Grants (Refer Annexure B(4))(B)	1,09,88,57,112.73	1,32,83,63,940.39
e) Grants in advance	-	-
f) Other funds (Refer Annexure B (5))	2,88,520.00	1,50,000.00
g) Other liabilities (Refer Annexure B (6))	11,39,70,162.53	10,73,99,705.61
Total (A)	1,74,02,22,315.66	1,63,22,25,849.40
B. PROVISIONS		
1. For Taxation	-	-
2. Gratuity	20,00,000.00	2,48,520.00
3. Superannuation/Pension		
Acturial Provision on Pension	22,81,72,784.00	19,45,23,510.00
Pension Pay	1,03,44,526.00	1,09,08,355.00
Pension Relief	20,24,054.00	13,94,868.00
Commutated Pension Payable	30,75,266.00	3,73,646.00
New Pension Scheme	30,46,903.00	17,73,909.00
4. Accumulated Leave Encashment		
Leave Encashment on LTC Other Staff	-	1,17,787.00
Retirement Leave Encashment Payable	18,43,296.00	2,07,100.00
5. Expenses payable (Refer Annexure B (7))	6,50,37,273.00	5,69,68,830.00
Total (B)	31,55,44,102.00	26,65,16,525.00
Total (A+B)	2,05,57,66,417.66	1,89,87,42,374.40

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'B' OF SCH '3'

CURRENT LIABILITIES AND PROVISIONS

B(1). SUNDRY CREDITORS

(Amount in Rs.)

Particulars	Opening Balance as on 01/04/2019	Receipts During the Year	Payments During the Year	Journal Entry	As at March 31, 2020	As at March 31, 2019
Institute						
Loan Account of PDTC & Industrial Estate	1,47,23,920.00	-	-		1,47,23,920.00	1,47,23,920.00
HEFA Loan	(4,25,00,000.00)	40,04,45,574.00	10,48,32,120.00		25,31,13,454.00	(4,25,00,000.00)
Subsidiaries						
Project Account - Transferable amount to R&C Cell	2,76,100.00	5,22,572.00	-		7,98,672.00	2,76,100.00
R&C Cell - Payable to RES, Bhadhoi	39,325.00	-	-		39,325.00	39,325.00
R&C Cell - Testing & Consultancy	3,28,16,814.00	4,89,55,129.00	3,05,08,867.00		5,12,63,076.00	3,28,16,814.00
R&C Cell -Unclaimed Deposits	27,01,398.00	-	-		27,01,398.00	27,01,398.00
TEQIP III - Loan from Institute	-	55,00,000.00	53,46,595.00		1,53,405.00	-
Total	80,57,557.00	45,54,23,275.00	14,06,87,582	-	32,27,93,250.00	80,57,557.00

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'B' OF SCH '3'

CURRENT LIABILITIES AND PROVISIONS

B(2). STATUTORY LIABILITIES-OTHERS

(Amount in Rs.)

Particulars	Opening Balance as on 01/04/2019	Receipts During the Year	Payments During the Year	As at March 31, 2020	As at March 31, 2019
Institute					
Income Tax	5,000.00	10,57,29,271.00	9,60,12,396.00	97,21,875.00	5,000.00
GST Payable	3,359.00	-	3,359.00	-	3,359.00
GST ITC	1.00	67,58,884.00	67,28,476.00	30,409.00	1.00
GST RCM	-	7,71,345.00	7,71,345.00	-	-
Employees contribution to C.P.F	-	8,07,760.00	8,07,760.00	-	-
Employees contribution to N.P.S	-	6,26,70,624.00	6,26,70,624.00	-	-
GPF- contribution to employees	(60,000.00)	3,85,70,799.00	3,85,10,799.00	-	(60,000.00)
Sales Tax/Service Tax	-	88,407.00	-	88,407.00	-
Subsidiaries					
Project Account - Income Tax	-	3,63,328.00	3,63,328.00	-	-
Project Account - GST	-	69,230.00	69,230.00	-	-
R&C Cell - Income Tax	-	45,39,265.00	45,39,265.00	-	-
R&C Cell - GST	16,01,524.00	90,96,762.00	1,03,91,319.00	3,06,967.00	16,01,524.00
Industrial Estate - GST	26,805.00	1,44,394.00	1,61,359.00	9,840.00	26,805.00
SNFCE - GST	-	6,723.00	6,723.00	-	-
SNFCE - Income Tax	-	79,690.00	79,690.00	-	-
Total	15,76,689.00	22,96,96,482.00	22,11,15,673.00	1,01,57,498.00	15,76,689.00

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'B' OF SCH '3'

CURRENT LIABILITIES AND PROVISIONS

B(3). RECEIPTS AGAINST SPONSORED FELLOWSHIPS & SCHOLARSHIPS

(Amount in Rs.)

Head of Account	Opening balance as on 01/04/2019		Transaction during the year 2018-19		Closing balance as on 31/03/2018	
	Debit	Credit	Debit	Credit	Debit	Credit
Institute						
ICSSR - Fellowship (Doctoral)	-	1,59,489.00	-	-	-	1,59,489.00
NRSA Project-Satellite Data Compression Decomposition	-	2,18,279.00	-	-	-	2,18,279.00
QIP Stipend & Contingency	-	2,54,982.00	-	-	-	2,54,982.00
Outside Scholarship	-	88,77,574.40	40,82,412.00	44,26,512.00	-	92,21,674.40
U.G.C. Fellowship	-	94,564.00	-	51,342.00	-	1,45,906.00
AIEEE Scholarship	-	1,05,000.00	-	-	-	1,05,000.00
AICT Fellowship	-		-	1,17,666.00	-	1,17,666.00
Subsidiaries						
Project Account :						
Project (Running)	-	9,34,15,558.00	5,03,14,523.00	5,08,18,958.00	-	9,39,19,993.00
Project (Deferred Grant)		8,33,96,512.00	-	57,94,403.00	-	8,91,90,915.00
R&C Cell (Deferred Grant)		1,55,999.00	-	6,65,869.00	-	8,21,868.00
Total	-	18,66,77,957.40	5,43,96,935.00	6,18,74,750.00	-	19,41,55,772.40

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'B' OF SCH '3'

B(4). OTHER CURRENT LIABILITIES- UNUTILISED GRANTS

(Amount-Rs)

Particulars	Current year	Previous year
MHRD-GOI - HEAD - RECURRING (OH-31)		

Motilal Nehru National Institute of Technology Allahabad [MNNIT Allahabad]

Balance B/F	46,71,02,511.74	86,06,21,996.43
Add: Receipts during the year		
i. Donation/Grants	32,64,97,000.00	45,03,00,000.00
ii. Institute Receipts	32,85,92,268.34	35,36,75,215.00
iii. HEFA Loan Interest	92,75,883.00	
Total (a)	1,13,14,67,663.08	1,66,45,97,211.43
Less: Utilisation/Expenditure towards objectives of funds		
i. Capital Expenditure	1,00,31,269.00	2,23,89,878.00
ii. Revenue Expenditure	80,47,90,607.00	82,14,29,606.69
iii. Transfer to Grant OH-36 (Salary)	-	35,36,75,215.00
iv. HEFA Loan Principle Repayment	10,48,32,120.00	-
v. HEFA Loan Interest Repayment	92,75,883.00	-
Total (b)	92,89,29,879.00	1,19,74,94,699.69
Unutilised carried forward (a-b)	20,25,37,784.08	46,71,02,511.74
MHRD-GOI - HEAD - NON RECURRING (OH-35)		
Balance B/F	86,12,61,428.65	1,07,60,96,422.00
Add: Receipts during the year		
i. Donation/Grants	14,97,00,000.00	5,64,00,000.00
Total (a)	1,01,09,61,428.65	1,13,24,96,422.00
Less: Utilisation/Expenditure towards objectives of funds		
i. Capital Expenditure	23,29,24,929.00	22,31,27,732.35
ii. Revenue Expenditure	5,24,22,567.00	4,81,07,261.00
Total (b)	28,53,47,496.00	27,12,34,993.35
Unutilised carried forward (a-b)	72,56,13,932.65	86,12,61,428.65
MHRD-GOI -HEAD - SALARY (OH-36)		
Balance B/F	-	(1,20,79,25,104.40)
Add: Receipts during the year		
i. Donation/Grants	72,96,01,000.00	1,13,61,00,000.00
ii. Transfer from Grant OH-31 (Recurring)	-	35,36,75,215.00
iii. Transfer from Corpus/Capital Fund in terms of MHRD Letter		24,02,61,312.44

No. Fno. 23011/02/2018-IF.I dated 25-10-2018		
Sub Total (a)	72,96,01,000.00	52,21,11,423.04
Less: Utilisation/Expenditure towards objectives of funds		
i. Capital Expenditure	-	-
ii. Revenue Expenditure	55,88,95,604.00	52,21,11,423.04
Sub Total (b)	55,88,95,604.00	52,21,11,423.04
Unutilised carried forward (a-b)	17,07,05,396.00	-
Net Unutilised Balance	1,09,88,57,112.73	1,32,83,63,940.39

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'B' OF SCH '3'

CURRENT LIABILITIES AND PROVISIONS

B(5). OTHER CURRENT LIABILITIES- OTHER FUNDS

(Amount in Rs.)

Particulars	Opening Balance as on 01/04/2019	Receipts During the Year	Payments During the Year	As at March 31, 2020	As at March 31, 2019
Bal Bharti Vidyalaya (Const of Building)	1,50,000.00			1,50,000.00	1,50,000.00
NIMCET		1,38,520.00	-	1,38,520.00	
Total	1,50,000.00	1,38,520.00	-	2,88,520.00	1,50,000.00

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'B' OF SCH '3'

CURRENT LIABILITIES AND PROVISIONS

B(6). OTHER CURRENT LIABILITIES- OTHER LIABILITIES

(Amount in Rs.)

Particulars	Opening Balance as on 01/04/2019	Receipts During the Year	Payments During the Year	As at March 31, 2020	As at March 31, 2019
Cancelled Cheques	1,57,99,408.00	15,72,544.00	3,93,826.00	1,69,78,126.00	1,57,99,408.00
DST New Delhi/Inspire	5,08,026.00	4,48,018.00	7,15,517.00	2,40,527.00	5,08,026.00
Examination Fees	1,28,39,800.00	1,42,10,100.00	2,70,49,900.00	-	1,28,39,800.00

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L.I.C.	4,40,111.70	3,24,591.00	3,24,591.00	4,40,111.70	4,40,111.70
M.Tech (Part Time)	44,09,976.00			44,09,976.00	44,09,976.00
Diety Programme	26,00,025.00			26,00,025.00	26,00,025.00
Other Liabilities (Misc. Receipt Transfer)	1,20,44,289.05	2,47,18,657.42	1,67,09,153.00	2,00,53,793.47	1,20,44,289.05
Caution Money	2,68,79,808.00	88,87,500.00	31,14,500.00	3,26,52,808.00	2,68,79,808.00
Earnest Money/ Security Money	1,24,46,174.00	1,29,56,142.00	43,38,880.00	2,10,63,436.00	1,24,46,174.00
Project Account Dean R & C	49,62,885.00	15,00,000.00	15,09,372.00	49,53,513.00	49,62,885.00
GIAN Project	10,01,493.86	43,35,397.00	39,14,398.50	14,22,492.36	10,01,493.86
Payable to Industrial Estate on Account of TDS	1,09,398.00			1,09,398.00	1,09,398.00
LSDSS Project 2015	27,430.00			27,430.00	27,430.00
Prayag Project	538.00			538.00	538.00
Stipend TEQIP II (R&C)	2,06,400.00			2,06,400.00	2,06,400.00
Library Security Money	6,00,000.00	-	10,000.00	5,90,000.00	6,00,000.00
SBI Loan Recovery		96,000.00	96,000.00	-	-
Payable to Alumni Association	-	1,58,525.00	-	1,58,525.00	-
Alumni Fees Liability		36,21,100.00	36,60,600.00	(39,500.00)	-
Swayam	12,08,135.00	-	10,48,123.00	1,60,012.00	12,08,135.00
Atal Programme	-	3,24,000.00	3,36,640.00	(12,640.00)	-
Subsidiaries					
Alumni Association - Amount Payable	50,67,565.00	-	50,67,565.00	-	50,67,565.00
Dean Academics - Cancelled Cheques	2,32,658.00	12,000.00	-	2,44,658.00	2,32,658.00
Industrial Estate - Expenses Payable	1,60,508.00	11,210.00	10,620.00	1,61,098.00	1,60,508.00
Industrial Estate - Executive Engineer CPWD (road and Drainage)		1,75,76,942.00	1,75,38,420.00	38,522.00	-
Project Account - Accounting Charges Payable	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00
Project Account - Salary Payable	1,13,068.00	-	-	1,13,068.00	1,13,068.00
Project Account - MNNIT	17,17,351.00	11,96,108.00	-	29,13,459.00	17,17,351.00
Project Account - Receipt From TEQUIP	19,60,873.00	-	-	19,60,873.00	19,60,873.00
Project Account - Fellowship Payable	10,48,296.00	-	-	10,48,296.00	10,48,296.00
R&C Cell - Cancelled Cheques	63,305.00	-	-	63,305.00	63,305.00

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R&C Cell - Expenses Payable	1,35,558.00	1,36,960.00	1,00,558.00	1,71,960.00	1,35,558.00
R&C Cell - Excess Amount of Testing	-	6,817.00	-	6,817.00	-
SNFCE- Cancelled Cheque	62,400.00	-	-	62,400.00	62,400.00
TEQIP II- Expense Payable	16,827.00		16,827.00	-	16,827.00
TEQIP III- Expense Payable		4,33,336.00	-	4,33,336.00	
Caution Money	4,22,655.00	-	-	4,22,655.00	4,22,655.00
Earnest Money/ Security Money	2,41,404.00	-	-	2,41,404.00	2,41,404.00
Security Received (Industrial Estate)	53,340.00	-	-	53,340.00	53,340.00
Total	10,73,99,705.61	9,25,45,947.42	8,59,75,490.50	11,39,70,162.53	10,73,99,705.61

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'B' OF SCH '3'

CURRENT LIABILITIES AND PROVISIONS

B(7). PROVISION- EXPENSES PAYABLE

(Amount in Rs.)

Particulars	As at March 31, 2020		As at March 31, 2019	
Salaries & Wages :				
Pay Direction & Teaching	2,92,83,300.00		2,59,84,350.00	
Pay Administrative Officer	13,08,577.00		11,33,500.00	
Pay Other Staff	47,07,166.00	3,52,99,043.00	50,35,850.00	3,21,53,700.00
Dearness Allowances:				
Direction & Teaching	49,78,162.00		46,77,183.00	
Administrative Officer	2,22,458.00		2,04,030.00	
Other Staff	8,00,148.00	60,00,768.00	9,06,453.00	57,87,666.00
HRA:				
Direction & Teaching	9,37,616.00		5,90,976.00	
Administrative Officer	96,960.00		80,016.00	
Other Staff	3,79,926.00	14,14,502.00	3,83,216.00	10,54,208.00
Transport Allowances:				
Direction & Teaching	8,92,944.00		7,78,768.00	

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Administrative Officer	61,074.00		53,700.00	
Other Staff	2,61,144.00	12,15,162.00	2,77,182.00	11,09,650.00
Family Planning Incentive Allowance		-		8,500.00
Washing Allowance				-
Special Allowance		68,175.00		78,750.00
Deans Honorarium		21,000.00		21,000.00
Cash Handling Allowance		700.00		-
Medical Allowance		3,97,000.00		3,91,000.00
ARREARS				
Pay Revision - Teaching/ Non Teaching		-		1,06,643.00
Pensioners		-		20,278.00
C.A. Fees Payable		2,00,000.00		2,00,000.00
C.P.F. Payable		18,450.00		37,930.00
Electricity & Power Payable				
Institute		52,21,472.00		42,12,040.00
Colony		1,53,000.00		-
Hostel		12,96,099.00		-
Pay on Contractual Staff		86,62,044.00		79,80,560.00
Security Charges Payable		48,37,031.00		37,77,584.00
Telephone Expenses Payable		2,32,827.00		29,321.00
Total		6,50,37,273.00		5,69,68,830.00

SCHEDULE FORMING PART OF BALANCE SHEET

SCHEDULE 4-FIXED ASSETS (INSTITUTE)

(Amount-Rs)

Tangible Assets	Anne-xure no.	Depreciation Rate	Gross Block			Depreciation			Net Block	
			Opening Balance on 01.04.2019	Additions/ (Deductions) during the year	Closing Balance	As at the beginning of the year	During the year (SLM)	Total up to the year-end	As at the current year ended 31.03.2020	As at the current year ended 31.03.2019
Institute										

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1. Land			5,21,45,714.00		5,21,45,714.00		-		5,21,45,714.00	5,21,45,714.00
2. Buildings	C 1	2%- SLM	1,32,03,94,478.48	45,78,271.00	1,32,49,72,749.48	34,06,86,255.00	2,64,99,455.00	36,71,85,710.00	95,77,87,039.48	97,97,08,223.48
3.Plant, machinery and equipment	C 2	5%- SLM	70,64,19,706.19	1,03,78,816.00	71,67,98,522.19	42,76,08,187.00	3,58,39,928.00	46,34,48,115.00	25,33,50,407.19	27,88,11,519.19
4. Vehicles	C 3	10%- SLM	59,74,812.00	40,87,379.00	1,00,62,191.00	56,76,071.15	4,08,737.90	60,84,809.05	39,77,381.95	2,98,740.85
5. Furniture and fixtures	C 4	7.5%- SLM	16,51,69,557.00	64,97,551.00	17,16,67,108.00	11,25,20,176.30	88,93,570.00	12,14,13,746.30	5,02,53,361.70	5,26,49,380.70
6. Office equipment	C 5	7.5%- SLM	2,33,10,885.05	49,359.00	2,33,60,244.05	1,50,72,904.25	13,41,273.00	1,64,14,177.25	69,46,066.80	82,37,980.80
7. Computer peripherals	C 6	20%- SLM	24,78,59,271.90	84,99,285.00	25,63,58,556.90	22,41,65,313.25	74,69,242.00	23,16,34,555.25	2,47,24,001.65	2,36,93,958.65
8. Electric installations	C 7	5%- SLM	14,08,82,792.00	80,38,641.00	14,89,21,433.00	7,86,76,194.00	71,12,873.00	8,57,89,067.00	6,31,32,366.00	6,22,06,598.00
9. Library books	C 8	10%- SLM	19,61,01,201.00	69,352.00	19,61,70,553.00	17,95,92,396.55	8,59,144.00	18,04,51,540.55	1,57,19,012.45	1,65,08,804.45
10. Other fixed assets	C 9	7.5%- SLM	8,53,33,408.60	6,53,822.00	8,59,87,230.60	4,36,07,179.90	53,67,074.00	4,89,74,253.90	3,70,12,976.70	4,17,26,228.70
11. Tube wells and water supply	C 10	2%- SLM	57,80,593.00	-	57,80,593.00	10,20,982.00	1,15,612.00	11,36,594.00	46,43,999.00	47,59,611.00
12. Road	C 11	20%- SLM	-	-	-	-	-	-	-	-
Total (A)			2,94,93,72,419.22	4,28,52,476.00	2,99,22,24,895.22	1,42,86,25,659.40	9,39,06,908.90	1,52,25,32,568.30	1,46,96,92,326.92	1,52,07,46,759.82
Capital works in progress (B)	C 12		20,13,40,614.35	33,27,30,370.00	53,40,70,984.35				53,40,70,984.35	20,13,40,614.35
Total (B)			20,13,40,614.35	33,27,30,370.00	53,40,70,984.35	-	-	-	53,40,70,984.35	20,13,40,614.35
Intangible Assets (C)										
Computer Soft ware (Dep: 40%)	C 13	40%- SLM	71,95,870.00	4,66,518.00	76,62,388.00	63,10,818.00	8,94,659.00	72,05,477.00	4,56,911.00	8,85,052.00
E-Journals (Dep: 40%)	C 14	40%- SLM	11,67,81,212.13	1,25,23,580.00	12,93,04,792.13	10,85,64,784.13	1,05,60,993.00	11,91,25,777.13	1,01,79,015.00	82,16,428.00

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		SLM								
Total (C)			12,39,77,082.13	1,29,90,098.00	13,69,67,180.13	11,48,75,602.13	1,14,55,652.00	12,63,31,254.13	1,06,35,926.00	91,01,480.00
Grand Total (A+B+C)			3,27,46,90,115.70	38,85,72,944.00	3,66,32,63,059.70	1,54,35,01,261.53	10,53,62,560.90	1,64,88,63,822.43	2,01,43,99,237.27	1,73,11,88,854.17

SCHEDULE FORMING PART OF BALANCE SHEET

(Amount-Rs)

SCHEDULE 4-FIXED ASSETS (SUBSIDIARY)

Tangible Assets	Annexure no.	Depreciation Rate	Gross Block			Depreciation				Net Block	
			Opening Balance on 01.04.2019	Additions/ (Deductions) during the year	Closing Balance	As at the beginning of the year	During the year (SLM)	Adjustment during the year	Total up to the year-end	As at the current year ended 31.03.2020	As at the current year ended 31.03.2019
Institute											
1. Land			-	-	-	-	-	-	-	-	-
2. Buildings	C 1	2%- SLM	-	-	-	-	-	-	-	-	-
3. Plant, machinery and equipment	C 2	5%- SLM	8,28,11,801.00	40,59,975.00	8,68,71,776.00	1,50,23,049.00	43,43,589.00	-	1,93,66,638.00	6,75,05,138.00	6,77,88,752.00
4. Vehicles	C 3	10%- SLM	-	-	-	-	-	-	-	-	-
5. Furniture and fixtures	C 4	7.5%- SLM	10,07,074.61	60,475.39	10,67,550.00	2,91,191.00	80,067.00	(1,00,477.00)	2,70,781.00	7,96,769.00	7,15,883.61
6. Office equipment	C 5	7.5%- SLM	1,73,63,314.00	1,81,98,218.00	3,55,61,532.00	32,43,816.00	26,67,116.00	-	59,10,932.00	2,96,50,600.00	1,41,19,498.00
7. Computer peripherals	C 6	20%- SLM	2,87,77,866.64	14,22,354.36	3,02,00,221.00	2,12,17,651.00	48,77,746.00	(2,90,232.00)	2,58,05,165.00	43,95,056.00	75,60,215.64
8. Electric installations	C 7	5%- SLM	61,61,359.00	3,78,500.00	65,39,859.00	7,70,792.00	3,26,994.00	-	10,97,786.00	54,42,073.00	53,90,567.00
9. Library books	C 8	10%- SLM	1,47,98,230.00	20,000.00	1,48,18,230.00	58,98,246.00	14,81,823.00	-	73,80,069.00	74,38,161.00	88,99,984.00
10. Other fixed assets	C 9	7.5%- SLM	10,52,427.00	(37,068.00)	10,15,359.00	3,12,644.00	76,152.00	(8,036.00)	3,80,760.00	6,34,599.00	7,39,783.00
11. Tube wells and water supply	C 10	2%- SLM	-	-	-	-	-	-	-	-	-
12. Road	C 11	20%- SLM	-	1,75,76,942.00	1,75,76,942.00	-	3,51,539.00	-	3,51,539.00	1,72,25,403.00	-
Total			15,19,72,072.25	4,16,79,396.75	19,36,51,469.00	4,67,57,389.00	1,42,05,026.00	(3,98,745.00)	6,05,63,670.00	13,30,87,799.00	10,52,14,683.25

SCHEDULE 4-FIXED ASSETS (SUBSIDIARY & INSTITUTE)

Total Assets	Gross Block			Depreciation				Net Block	
	Opening Balance on 01.04.2019	Additions/ (Deductions) during the year	Closing Balance	As at the beginning of the year	During the year (SLM)	Adjustment during the year	Total up to the year-end	As at the current year ended 31.03.2020	As at the current year ended 31.03.2019
Tangible Assets:									
Institute	2,94,93,72,419.22	4,28,52,476.00	2,99,22,24,895.22	1,42,86,25,659.40	9,39,06,908.90	-	1,52,25,32,568.30	1,46,96,92,326.92	1,52,07,46,759.82
Subsidiary	15,19,72,072.25	4,16,79,396.75	19,36,51,469.00	4,67,57,389.00	1,42,05,026.00	(3,98,745.00)	6,05,63,670.00	13,30,87,799.00	10,52,14,683.25
Total (A)	3,10,13,44,491.47	8,45,31,872.75	3,18,58,76,364.22	1,47,53,83,048.40	10,81,11,934.90	-3,98,745.00	1,58,30,96,238.30	1,60,27,80,125.92	1,62,59,61,443.07
Capital works in progress Institute (B)	20,13,40,614.35	33,27,30,370.00	53,40,70,984.35	-	-	-	-	53,40,70,984.35	20,13,40,614.35
Intangible Assets (Institute) (C)	12,39,77,082.13	1,29,90,098.00	13,69,67,180.13	11,48,75,602.13	1,14,55,652.00	-	12,63,31,254.13	1,06,35,926.00	91,01,480.00
Total (A+B+C)	3,42,66,62,187.95	43,02,52,340.75	3,85,69,14,528.70	1,59,02,58,650.53	11,95,67,586.90	-3,98,745.00	1,70,94,27,492.43	2,14,74,87,036.27	1,83,64,03,537.42

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'C' OF SCH 4

**FIXED ASSETS
C(1). BUILDINGS**

(Amount in Rs.)

Description	Depreciation Rate	Gross Block			Depreciation			Net Block		
		Opening Balance on 01.04.2019	Additions/ (Deductions)	As at March 31, 2019	As at April 01, 2019	Depreciation during the year 19-20	Adjustment during the year	As at March 31, 2020	As at March 31, 2020	As at March 31, 2019
Assets out of Capital Fund:	2%- SLM									
Upto the year 2013-14		1,20,08,90,348.48	-	1,20,08,90,348.48	33,43,41,201.00	2,40,17,807.00	-	35,83,59,008.00	84,25,31,340.48	86,65,49,147.48
During the year 2014-15		2,68,19,631.00	-	2,68,19,631.00	26,81,965.00	5,36,393.00	-	32,18,358.00	2,36,01,273.00	2,41,37,666.00
During the year 2015-16		1,83,85,669.00	-	1,83,85,669.00	14,70,852.00	3,67,713.00	-	18,38,565.00	1,65,47,104.00	1,69,14,817.00
During the year 2016-17		1,66,04,351.00	-	1,66,04,351.00	9,96,261.00	3,32,087.00	-	13,28,348.00	1,52,76,003.00	1,56,08,090.00

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During the year 2018-19		5,75,65,504.00	-	5,75,65,504.00	11,51,310.00	11,51,310.00	-	23,02,620.00	5,52,62,884.00	5,64,14,194.00
During the year 2019-20			45,78,271.00	45,78,271.00		91,565.00	-	91,565.00	44,86,706.00	-
Sub Total		1,32,02,65,503.48	45,78,271.00	1,32,48,43,774.48	34,06,41,589.00	2,64,96,875.00	-	36,71,38,464.00	95,77,05,310.48	97,96,23,914.48
Assets out of Institute Receipts	2%- SLM									
Upto the year 2013-14		1,28,975.00	-	1,28,975.00	44,666.00	2,580.00	-	47,246.00	81,729.00	84,309.00
Sub Total		1,28,975.00	-	1,28,975.00	44,666.00	2,580.00	-	47,246.00	81,729.00	84,309.00
Total		1,32,03,94,478.48	45,78,271.00	1,32,49,72,749.48	34,06,86,255.00	2,64,99,455.00	-	36,71,85,710.00	95,77,87,039.48	97,97,08,223.48

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'C' OF SCH 4

FIXED ASSETS

C(2). PLANT, MACHINERY & EQUIPMENT

(Amount in Rs.)

Description	Depreciation Rate	Gross Block			Depreciation			Net Block		
		As at April 01, 2019	Additions/ (Deductions)	As at March 31, 2020	As at April 01, 2019	Depreciation during the year	Adjustment during the year	As at March 31, 2020	As at March 31, 2020	As at March 31, 2019
Assets out of Capital Fund:	5%- SLM									
Upto the year 2013-14		48,42,92,853.19	-	48,42,92,853.19	37,80,52,707.00	2,42,14,643.00	-	40,22,67,350.00	8,20,25,503.19	10,62,40,146.19
During the year 2014-15		13,02,11,152.00	-	13,02,11,152.00	3,25,52,790.00	65,10,558.00	-	3,90,63,348.00	9,11,47,804.00	9,76,58,362.00
During the year 2015-16		7,52,11,037.00	-	7,52,11,037.00	1,50,42,208.00	37,60,552.00	-	1,88,02,760.00	5,64,08,277.00	6,01,68,829.00
During the year 2016-17		69,11,682.00	-	69,11,682.00	10,36,752.00	3,45,584.00	-	13,82,336.00	55,29,346.00	58,74,930.00
During the year 2017-18		69,63,451.00	-	69,63,451.00	6,96,346.00	3,48,173.00	-	10,44,519.00	59,18,932.00	62,67,105.00
During the year 2018-19		26,74,051.00	-	26,74,051.00	1,33,703.00	1,33,703.00	-	2,67,406.00	24,06,645.00	25,40,348.00
During the year 2019-20			1,03,78,816.00	1,03,78,816.00		5,18,941.00	-	5,18,941.00	98,59,875.00	-
Sub Total		70,62,64,226.19	1,03,78,816.00	71,66,43,042.19	42,75,14,506.00	3,58,32,154.00	-	46,33,46,660.00	25,32,96,382.19	27,87,49,720.19
Assets out of Institute Receipts	5%- SLM									

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Upto the year 2013-14		1,55,480.00	-	1,55,480.00	93,681.00	7,774.00	-	1,01,455.00	54,025.00	61,799.00
Sub Total		1,55,480.00	-	1,55,480.00	93,681.00	7,774.00	-	1,01,455.00	54,025.00	61,799.00
Total		70,64,19,706.19	1,03,78,816.00	71,67,98,522.19	42,76,08,187.00	3,58,39,928.00	-	46,34,48,115.00	25,33,50,407.19	27,88,11,519.19

Description	Depreciation Rate	Gross Block			Depreciation			Net Block		
		As at April 01, 2019	Additions/ (Deductions)	As at March 31, 2020	As at April 01, 2019	Depreciation during the year	Adjustment during the year	As at March 31, 2020	As at March 31, 2020	As at March 31, 2019
Assets out of Subsidiaries Fund	5%- SLM									
TEQIP II										
Upto the year 2013-14		65,76,788.00		65,76,788.00	13,15,356.00	3,28,839.00		16,44,195.00	49,32,593.00	52,61,432.00
During the year 2014-15		52,37,939.00		52,37,939.00	10,47,588.00	2,61,897.00		13,09,485.00	39,28,454.00	41,90,351.00
During the year 2016-17		26,21,943.00		26,21,943.00	3,93,291.00	1,31,097.00		5,24,388.00	20,97,555.00	22,28,652.00
During the year 2017-18		20,80,498.00	-	20,80,498.00	2,08,050.00	1,04,025.00		3,12,075.00	17,68,423.00	18,72,448.00
Sub Total		1,65,17,168.00	-	1,65,17,168.00	29,64,285.00	8,25,858.00	-	37,90,143.00	1,27,27,025.00	1,35,52,883.00
Dean Academic Affairs										
Upto the year 2013-14		15,380.00		15,380.00	3,076.00	769.00		3,845.00	11,535.00	12,304.00
Sub Total		15,380.00	-	15,380.00	3,076.00	769.00	-	3,845.00	11,535.00	12,304.00
Project Account										
Upto the year 2013-14		4,21,25,805.00		4,21,25,805.00	84,25,162.00	21,06,290.00		1,05,31,452.00	3,15,94,353.00	3,37,00,643.00
During the year 2014-15		55,00,859.00		55,00,859.00	11,00,172.00	2,75,043.00		13,75,215.00	41,25,644.00	44,00,687.00
During the year 2015-16		45,19,929.00		45,19,929.00	9,03,984.00	2,25,996.00		11,29,980.00	33,89,949.00	36,15,945.00
During the year 2016-17		45,92,746.00		45,92,746.00	6,88,911.00	2,29,637.00		9,18,548.00	36,74,198.00	39,03,835.00
During the year 2017-18		39,46,375.00		39,46,375.00	3,94,638.00	1,97,319.00		5,91,957.00	33,54,418.00	35,51,737.00
During the year 2018-19		37,80,114.00		37,80,114.00	1,89,006.00	1,89,006.00		3,78,012.00	34,02,102.00	35,91,108.00
During the year 2019-20			40,12,114.00	40,12,114.00		2,00,606.00		2,00,606.00	38,11,508.00	-
Sub Total		6,44,65,828.00	40,12,114.00	6,84,77,942.00	1,17,01,873.00	34,23,897.00	-	1,51,25,770.00	5,33,52,172.00	5,27,63,955.00
R&C Cell										

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Upto the year 2013-14		16,07,475.00		16,07,475.00	3,21,496.00	80,374.00		4,01,870.00	12,05,605.00	12,85,979.00
During the year 2015-16		28,500.00		28,500.00	5,700.00	1,425.00		7,125.00	21,375.00	22,800.00
During the year 2016-17		1,77,450.00		1,77,450.00	26,619.00	8,873.00		35,492.00	1,41,958.00	1,50,831.00
During the year 2019-20			47,861.00	47,861.00		2,393.00		2,393.00	45,468.00	-
Sub Total		18,13,425.00	47,861.00	18,61,286.00	3,53,815.00	93,065.00	-	4,46,880.00	14,14,406.00	14,59,610.00
Total		8,28,11,801.00	40,59,975.00	8,68,71,776.00	1,50,23,049.00	43,43,589.00	-	1,93,66,638.00	6,75,05,138.00	6,77,88,752.00

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'C' OF SCH 4

FIXED ASSETS
C(3). VEHICLES

(Amount in Rs.)

Description	Depreciation Rate	Gross Block			Depreciation				Net Block	
		As at April 01, 2019	Additions/ (Deductions)	As at March 31, 2020	As at April 01, 2019	Depreciation during the year	Adjustment during the year	As at March 31, 2020	As at March 31, 2020	As at March 31, 2019
Assets out of Capital Fund:	10%- SLM									
Upto the year 2013-14 (Residual Value <= 5%)		44,34,457.00	-	44,34,457.00	42,12,734.15	-	-	42,12,734.15	2,21,722.85	2,21,722.85
Upto the year 2013-14		15,40,355.00	-	15,40,355.00	14,63,337.00	-	-	14,63,337.00	77,018.00	77,018.00
During the year 2019-20			40,87,379.00	40,87,379.00		4,08,737.90		4,08,737.90	36,78,641.10	
Sub Total		59,74,812.00	40,87,379.00	1,00,62,191.00	56,76,071.15	4,08,737.90	-	60,84,809.05	39,77,381.95	2,98,740.85
Total		59,74,812.00	40,87,379.00	1,00,62,191.00	56,76,071.15	4,08,737.90	-	60,84,809.05	39,77,381.95	2,98,740.85

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'C' OF SCH 4

FIXED ASSETS

C(4). FURNITURE & FIXTURES

(Amount in Rs.)

Description	Depreciation rate	Gross Block			Depreciation				Net Block	
		As at April 01, 2019	Additions/ (Deductions)	As at March 31, 2020	As at April 01, 2019	Depreciation during the year	Adjustment during the year	As at March 31, 2020	As at March 31, 2020	As at March 31, 2019
Assets out of Capital Fund:	7.5%- SLM									-
Upto the year 2013-14 (Residual Value <= 5%)		5,25,30,034.00	-	5,25,30,034.00	4,99,03,532.30	-	-	4,99,03,532.30	26,26,501.70	26,26,501.70
Upto the year 2013-14		6,27,26,460.00	-	6,27,26,460.00	4,84,19,600.00	47,04,485.00	-	5,31,24,085.00	96,02,375.00	1,43,06,860.00
During the year 2014-15		2,65,20,319.00	-	2,65,20,319.00	99,45,117.00	19,89,024.00	-	1,19,34,141.00	1,45,86,178.00	1,65,75,202.00
During the year 2015-16		40,52,263.00	-	40,52,263.00	12,15,680.00	3,03,920.00	-	15,19,600.00	25,32,663.00	28,36,583.00
During the year 2016-17		14,26,648.00	-	14,26,648.00	3,20,997.00	1,06,999.00	-	4,27,996.00	9,98,652.00	11,05,651.00
During the year 2017-18		97,31,449.00	-	97,31,449.00	14,59,718.00	7,29,859.00	-	21,89,577.00	75,41,872.00	82,71,731.00
During the year 2018-19		74,32,208.00	-	74,32,208.00	5,57,416.00	5,57,416.00	-	11,14,832.00	63,17,376.00	68,74,792.00
During the year 2019-20			64,97,551.00	64,97,551.00		4,87,316.00	-	4,87,316.00	60,10,235.00	-
Sub Total		16,44,19,381.00	64,97,551.00	17,09,16,932.00	11,18,22,060.30	88,79,019.00	-	12,07,01,079.30	5,02,15,852.70	5,25,97,320.70
Assets out of Institute Receipts	7.5%- SLM									
Upto the year 2013-14		7,50,176.00	-	7,50,176.00	6,98,116.00	14,551.00	-	7,12,667.00	37,509.00	52,060.00
Sub Total		7,50,176.00	-	7,50,176.00	6,98,116.00	14,551.00	-	7,12,667.00	37,509.00	52,060.00
Total		16,51,69,557.00	64,97,551.00	17,16,67,108.00	11,25,20,176.30	88,93,570.00	-	12,14,13,746.30	5,02,53,361.70	5,26,49,380.70

Motilal Nehru National Institute of Technology Allahabad [MNNIT Allahabad]

Description	Depreciation rate	Gross Block			Depreciation			Net Block		
		As at April 01, 2019	Additions/ (Deductions)	As at March 31, 2020	As at April 01, 2019	Depreciation during the year	Adjustment during the year	As at March 31, 2020	As at March 31, 2020	As at March 31, 2019
Assets out of Subsidiaries Fund	7.5%- SLM									
Alumni Association										
During the year 2014-15		52,977.61	(52,977.61)	-	15,892.00	(15,892.00)	-	-	-	37,085.61
During the year 2015-16		2,74,210.00	(2,74,210.00)	-	82,264.00	(82,264.00)	-	-	-	1,91,946.00
During the year 2018-19		30,950.00	(30,950.00)	-	2,321.00	(2,321.00)	-	-	-	28,629.00
Sub Total		3,58,137.61	(3,58,137.61)	-	1,00,477.00	(1,00,477.00)	-	-	-	2,57,660.61
Project Account										
Upto the year 2013-14		3,00,307.00		3,00,307.00	90,092.00	22,523.00		1,12,615.00	1,87,692.00	2,10,215.00
During the year 2015-16		11,000.00		11,000.00	3,300.00	825.00		4,125.00	6,875.00	7,700.00
Sub Total		3,11,307.00	-	3,11,307.00	93,392.00	23,348.00	-	1,16,740.00	1,94,567.00	2,17,915.00
R&C Cell										
Upto the year 2013-14		65,806.00		65,806.00	19,740.00	4,935.00		24,675.00	41,131.00	46,066.00
During the year 2014-15		1,33,568.00		1,33,568.00	40,072.00	10,018.00		50,090.00	83,478.00	93,496.00
During the year 2017-18		26,460.00	-	26,460.00	3,970.00	1,985.00		5,955.00	20,505.00	22,490.00
During the year 2019-20			4,18,613.00	4,18,613.00		31,396.00		31,396.00	3,87,217.00	-
Sub Total		2,25,834.00	4,18,613.00	6,44,447.00	63,782.00	48,334.00	-	1,12,116.00	5,32,331.00	1,62,052.00
Dean Academic										
During the year 2015-16		45,561.00		45,561.00	13,668.00	3,417.00		17,085.00	28,476.00	31,893.00
Sub Total		45,561.00	-	45,561.00	13,668.00	3,417.00	-	17,085.00	28,476.00	31,893.00
School of Non Formal Continuing Education										
Upto the year 2013-14		66,235.00		66,235.00	19,872.00	4,968.00		24,840.00	41,395.00	46,363.00
Sub Total		66,235.00	-	66,235.00	19,872.00	4,968.00	-	24,840.00	41,395.00	46,363.00
TOTAL		10,07,074.61	60,475.39	10,67,550.00	2,91,191.00	80,067.00	(1,00,477.00)	2,70,781.00	7,96,769.00	7,15,883.61

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'C' OF SCH 4

FIXED ASSETS

C(5). OFFICE EQUIPMENT

(Amount in Rs.)

Description	Depreciation Rate	Gross Block			Depreciation				Net Block	
		As at April 01, 2019	Additions/ (Deductions)	As at March 31, 2020	As at April 01, 2019	Depreciation during the year	Adjustment during the year	As at March 31, 2020	As at March 31, 2020	As at March 31, 2019
Assets out of Capital Fund:	7.5%- SLM									
Upto the year 2013-14 (Residual Value <= 5%)		54,76,615.00	-	54,76,615.00	52,02,784.25	-	-	52,02,784.25	2,73,830.75	2,73,830.75
Upto the year 2013-14		1,14,13,424.05	-	1,14,13,424.05	80,68,904.00	8,56,007.00	-	89,24,911.00	24,88,513.05	33,44,520.05
During the year 2014-15		17,98,820.00	-	17,98,820.00	6,74,557.00	1,34,912.00	-	8,09,469.00	9,89,351.00	11,24,263.00
During the year 2015-16		8,58,774.00	-	8,58,774.00	2,57,632.00	64,408.00	-	3,22,040.00	5,36,734.00	6,01,142.00
During the year 2016-17		36,27,461.00		36,27,461.00	8,16,180.00	2,72,060.00	-	10,88,240.00	25,39,221.00	28,11,281.00
During the year 2017-18		82,750.00	-	82,750.00	12,412.00	6,206.00		18,618.00	64,132.00	70,338.00
During the year 2019-20			49,359.00	49,359.00	-	3,702.00		3,702.00	45,657.00	-
Sub Total		2,32,57,844.05	49,359.00	2,33,07,203.05	1,50,32,469.25	13,37,295.00	-	1,63,69,764.25	69,37,438.80	82,25,374.80
Assets out of Institute Receipts	7.5%- SLM									
Upto the year 2013-14		53,041.00	-	53,041.00	40,435.00	3,978.00	-	44,413.00	8,628.00	12,606.00
Sub Total		53,041.00	-	53,041.00	40,435.00	3,978.00	-	44,413.00	8,628.00	12,606.00
Total		2,33,10,885.05	49,359.00	2,33,60,244.05	1,50,72,904.25	13,41,273.00	-	1,64,14,177.25	69,46,066.80	82,37,980.80

Description	Depreciation Rate	Gross Block			Depreciation			Net Block		
		As at April 01, 2019	Additions/ (Deductions)	As at March 31, 2020	As at April 01, 2019	Depreciation during the year	Adjustment during the year	As at March 31, 2020	As at March 31, 2020	As at March 31, 2019
Assets out of Subsidiaries Fund	7.5%-SLM									
Dean Academic Affairs										
Upto the year 2013-14		76,070.00		76,070.00	22,820.00	5,705.00		28,525.00	47,545.00	53,250.00
During the year 2016-17		2,72,900.00	-	2,72,900.00	61,404.00	20,468.00		81,872.00	1,91,028.00	2,11,496.00
Sub Total		3,48,970.00	-	3,48,970.00	84,224.00	26,173.00	-	1,10,397.00	2,38,573.00	2,64,746.00
Nodal Centre										
Upto the year 2013-14		62,405.00		62,405.00	18,720.00	4,680.00		23,400.00	39,005.00	43,685.00
Sub Total		62,405.00	-	62,405.00	18,720.00	4,680.00	-	23,400.00	39,005.00	43,685.00
R&C Cell										
Upto the year 2013-14		69,243.00		69,243.00	20,772.00	5,193.00		25,965.00	43,278.00	48,471.00
Sub Total		69,243.00	-	69,243.00	20,772.00	5,193.00	-	25,965.00	43,278.00	48,471.00
Dean Academic Affairs										
Upto the year 2013-14		52,520.00		52,520.00	15,756.00	3,939.00		19,695.00	32,825.00	36,764.00
During the year 2014-15		97,650.00		97,650.00	29,296.00	7,324.00		36,620.00	61,030.00	68,354.00
During the year 2015-16		2,29,450.00		2,29,450.00	68,836.00	17,209.00		86,045.00	1,43,405.00	1,60,614.00
Sub Total		3,79,620.00	-	3,79,620.00	1,13,888.00	28,472.00	-	1,42,360.00	2,37,260.00	2,65,732.00
Tequip III										
During the year 2015-16		92,398.00		92,398.00	27,720.00	6,930.00		34,650.00	57,748.00	64,678.00
During the year 2016-17		63,12,474.00		63,12,474.00	14,20,308.00	4,73,436.00		18,93,744.00	44,18,730.00	48,92,166.00
During the year 2017-18		98,08,530.00	-	98,08,530.00	14,71,280.00	7,35,640.00		22,06,920.00	76,01,610.00	83,37,250.00
During the year 2019-20			1,81,98,218.00	1,81,98,218.00		13,64,866.00		13,64,866.00	1,68,33,352.00	-
Sub Total		1,62,13,402.00	1,81,98,218.00	3,44,11,620.00	29,19,308.00	25,80,872.00	-	55,00,180.00	2,89,11,440.00	1,32,94,094.00
Student Welfare Fund										
Upto the year 2013-14		2,89,674.00		2,89,674.00	86,904.00	21,726.00		1,08,630.00	1,81,044.00	2,02,770.00

Sub Total		2,89,674.00	-	2,89,674.00	86,904.00	21,726.00	-	1,08,630.00	1,81,044.00	2,02,770.00
Total		1,73,63,314.00	1,81,98,218.00	3,55,61,532.00	32,43,816.00	26,67,116.00	-	59,10,932.00	2,96,50,600.00	1,41,19,498.00

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'C' OF SCH 4

FIXED ASSETS

C(6). COMPUTER & PERIPHERALS

(Amount in Rs.)

Description	Depreciation Rate	Gross Block			Depreciation			Net Block		
		As at April 01, 2019	Additions/ (Deductions)	As at March 31, 2020	As at April 01, 2019	Depreciation during the year	Adjustment during the year	As at March 31, 2020	As at March 31, 2020	As at March 31, 2019
Assets out of Capital Fund:	20%- SLM									
Upto the year 2013-14 (Residual Value <=5%)		7,13,28,288.00	-	7,13,28,288.00	6,77,61,873.60	-		6,77,61,873.60	35,66,414.40	35,66,414.40
Upto the year 2013-14 (Residual Value <=5%)		9,69,75,819.90		9,69,75,819.90	9,21,27,028.90	-		9,21,27,028.90	48,48,791.00	48,48,791.00
During the year 2014-15		4,60,49,592.00		4,60,49,592.00	4,37,47,112.00	-		4,37,47,112.00	23,02,480.00	23,02,480.00
During the year 2015-16		1,33,09,412.00		1,33,09,412.00	1,06,47,528.00	19,96,413.00		1,26,43,941.00	6,65,471.00	26,61,884.00
During the year 2016-17		80,26,633.00		80,26,633.00	48,15,981.00	16,05,327.00		64,21,308.00	16,05,325.00	32,10,652.00
During the year 2017-18		81,67,023.00	-	81,67,023.00	32,66,810.00	16,33,405.00		49,00,215.00	32,66,808.00	49,00,213.00
During the year 2018-19		26,71,199.00		26,71,199.00	5,34,240.00	5,34,240.00		10,68,480.00	16,02,719.00	21,36,959.00
During the year 2019-20			84,99,285.00	84,99,285.00		16,99,857.00		16,99,857.00	67,99,428.00	-
Sub Total		24,65,27,966.90	84,99,285.00	25,50,27,251.90	22,29,00,573.50	74,69,242.00	-	23,03,69,815.50	2,46,57,436.40	2,36,27,393.40
Assets out of Institute Receipts	20%- SLM									
Upto the year 2013-14 (Residual Value <= 5%)		13,31,305.00	-	13,31,305.00	12,64,739.75	-		12,64,739.75	66,565.25	66,565.25
Sub Total		13,31,305.00	-	13,31,305.00	12,64,739.75	-	-	12,64,739.75	66,565.25	66,565.25

Motilal Nehru National Institute of Technology Allahabad [MNNIT Allahabad]

Total		24,78,59,271.90	84,99,285.00	25,63,58,556.90	22,41,65,313.25	74,69,242.00	-	23,16,34,555.25	2,47,24,001.65	2,36,93,958.65
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Description	Depre- ciation Rate	Gross Block			Depreciation			Net Block		
		As at April 01, 2019	Additions/ (Deductions)	As at March 31, 2020	As at April 01, 2019	Depreciation during the year	Adjustment during the year	As at March 31, 2020	As at March 31, 2020	As at March 31, 2019
Assets out of Subsidiaries Fund	20%- SLM									
Alumni Association										
Upto the year 2013-14		65,193.00	(65,193.00)	-	52,156.00	(52,156.00)	-	-	-	13,037.00
During the year 2014-15		27,965.64	(27,965.64)	-	22,372.00	(22,372.00)	-	-	-	5,593.64
During the year 2015-16		2,69,632.00	(2,69,632.00)	-	2,15,704.00	(2,15,704.00)	-	-	-	53,928.00
During the year 2016-17				-			-	-	-	-
Sub Total		3,62,790.64	(3,62,790.64)	-	2,90,232.00	(2,90,232.00)	-	-	-	72,558.64
Dean Academic Affairs										
Upto the year 2013-14		34,500.00		34,500.00	27,600.00	5,175.00		32,775.00	1,725.00	6,900.00
During the year 2015-16		17,775.00		17,775.00	14,220.00	2,666.00		16,886.00	889.00	3,555.00
During the year 2016-17		8,655.00		8,655.00	5,193.00	1,731.00		6,924.00	1,731.00	3,462.00
During the year 2018-19		1,11,319.00		1,11,319.00	22,264.00	22,264.00		44,528.00	66,791.00	89,055.00
During the year 2019-20			43,898.00	43,898.00		8,780.00		8,780.00	35,118.00	-
Sub Total		1,72,249.00	43,898.00	2,16,147.00	69,277.00	40,616.00	-	1,09,893.00	1,06,254.00	1,02,972.00
Industrial Estate										
Upto the year 2013-14		43,877.00		43,877.00	35,100.00	6,583.00		41,683.00	2,194.00	8,777.00
During the year 2015-16		14,495.00		14,495.00	11,596.00	2,174.00		13,770.00	725.00	2,899.00
During the year 2019-20			32,038.00	32,038.00		2,174.00		2,174.00	29,864.00	-
Sub Total		58,372.00	32,038.00	90,410.00	46,696.00	10,931.00	-	57,627.00	32,783.00	11,676.00
Nodal Centre										
Upto the year 2013-14		85,306.00		85,306.00	68,244.00	12,797.00		81,041.00	4,265.00	17,062.00
Sub Total		85,306.00	-	85,306.00	68,244.00	12,797.00	-	81,041.00	4,265.00	17,062.00
Project Account										

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Upto the year 2013-14		65,55,940.00		65,55,940.00	52,44,752.00	9,83,391.00		62,28,143.00	3,27,797.00	13,11,188.00
During the year 2014-15		3,11,440.00		3,11,440.00	2,49,152.00	46,716.00		2,95,868.00	15,572.00	62,288.00
During the year 2015-16		1,09,394.00		1,09,394.00	87,516.00	16,408.00		1,03,924.00	5,470.00	21,878.00
During the year 2016-17		28,12,318.00		28,12,318.00	16,87,392.00	5,62,464.00		22,49,856.00	5,62,462.00	11,24,926.00
During the year 2017-18		10,96,074.00		10,96,074.00	4,38,430.00	2,19,215.00		6,57,645.00	4,38,429.00	6,57,644.00
During the year 2018-19		10,36,710.00		10,36,710.00	2,07,342.00	2,07,342.00		4,14,684.00	6,22,026.00	8,29,368.00
During the year 2019-20			15,09,814.00	15,09,814.00		3,01,963.00		3,01,963.00	12,07,851.00	-
Sub Total		1,19,21,876.00	15,09,814.00	1,34,31,690.00	79,14,584.00	23,37,499.00	-	1,02,52,083.00	31,79,607.00	40,07,292.00
R&C Cell										
Upto the year 2013-14		1,58,12,923.00		1,58,12,923.00	1,26,50,340.00	23,71,937.00		1,50,22,277.00	7,90,646.00	31,62,583.00
During the year 2014-15		21,131.00		21,131.00	16,904.00	3,170.00		20,074.00	1,057.00	4,227.00
During the year 2015-16		1,54,550.00		1,54,550.00	1,23,640.00	23,183.00		1,46,823.00	7,727.00	30,910.00
During the year 2018-19		1,88,669.00		1,88,669.00	37,734.00	37,734.00		75,468.00	1,13,201.00	1,50,935.00
During the year 2019-20			1,99,395.00	1,99,395.00		39,879.00		39,879.00	1,59,516.00	-
Sub Total		1,61,77,273.00	1,99,395.00	1,63,76,668.00	1,28,28,618.00	24,75,903.00	-	1,53,04,521.00	10,72,147.00	33,48,655.00
Total		2,87,77,866.64	14,22,354.36	3,02,00,221.00	2,12,17,651.00	48,77,746.00	(2,90,232.00)	2,58,05,165.00	43,95,056.00	75,60,215.64

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'C' OF SCH 4

FIXED ASSETS

C(7). ELECTRIC INSTALLATIONS

(Amount in Rs.)

Description	Depreciation Rate	Gross Block			Depreciation			Net Block		
		As at April 01, 2019	Additions/ (Deductions)	As at March 31, 2020	As at April 01, 2019	Depreciation during the year	Adjustment during the year	As at March 31, 2020	As at March 31, 2020	As at March 31, 2019
Assets out of Capital Fund:	5%- SLM									
Upto the year 2013-14 (Residual Value <= 5%)		66,63,970.00	-	66,63,970.00	63,30,771.00		-	63,30,771.00	3,33,199.00	3,33,199.00

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Upto the year 2013-14		10,21,54,196.00		10,21,54,196.00	6,89,86,452.00	51,07,710.00	-	7,40,94,162.00	2,80,60,034.00	3,31,67,744.00
During the year 2014-15		5,68,883.00		5,68,883.00	1,42,220.00	28,444.00	-	1,70,664.00	3,98,219.00	4,26,663.00
During the year 2015-16		12,60,341.00		12,60,341.00	2,52,068.00	63,017.00	-	3,15,085.00	9,45,256.00	10,08,273.00
During the year 2016-17		22,10,220.00		22,10,220.00	3,31,533.00	1,10,511.00	-	4,42,044.00	17,68,176.00	18,78,687.00
During the year 2017-18		2,11,16,559.00	-	2,11,16,559.00	21,11,656.00	10,55,828.00		31,67,484.00	1,79,49,075.00	1,90,04,903.00
During the year 2018-19		66,81,523.00		66,81,523.00	3,34,076.00	3,34,076.00		6,68,152.00	60,13,371.00	63,47,447.00
During the year 2019-20			80,38,641.00	80,38,641.00		4,01,932.00		4,01,932.00	76,36,709.00	-
Sub Total		14,06,55,692.00	80,38,641.00	14,86,94,333.00	7,84,88,776.00	71,01,518.00	-	8,55,90,294.00	6,31,04,039.00	6,21,66,916.00
Assets out of Institute Receipts	5%-SLM									
Upto the year 2013-14		2,27,100.00	-	2,27,100.00	1,87,418.00	11,355.00	-	1,98,773.00	28,327.00	39,682.00
Sub Total		2,27,100.00	-	2,27,100.00	1,87,418.00	11,355.00	-	1,98,773.00	28,327.00	39,682.00
Total		14,08,82,792.00	80,38,641.00	14,89,21,433.00	7,86,76,194.00	71,12,873.00	-	8,57,89,067.00	6,31,32,366.00	6,22,06,598.00

Description	Depreciation Rate	Gross Block			Depreciation			Net Block		
		As at April 01, 2019	Additions/ (Deductions)	As at March 31, 2020	As at April 01, 2019	Depreciation during the year	Adjustment during the year	As at March 31, 2020	As at March 31, 2020	As at March 31, 2019
Assets out of Subsidiaries Fund	5%-SLM									
Project Account										
Upto the year 2013-14		3,62,271.00		3,62,271.00	72,454.00	18,114.00	-	90,568.00	2,71,703.00	2,89,817.00
During the year 2014-15		1,88,874.00		1,88,874.00	37,776.00	9,444.00	-	47,220.00	1,41,654.00	1,51,098.00
During the year 2016-17		18,34,154.00		18,34,154.00	2,75,124.00	91,708.00	-	3,66,832.00	14,67,322.00	15,59,030.00
During the year 2017-18		27,29,648.00	-	27,29,648.00	2,72,964.00	1,36,482.00	-	4,09,446.00	23,20,202.00	24,56,684.00
During the year 2018-19		6,45,400.00		6,45,400.00	32,270.00	32,270.00	-	64,540.00	5,80,860.00	6,13,130.00
During the year 2019-20			2,52,475.00	2,52,475.00		12,624.00	-	12,624.00	2,39,851.00	-
Sub Total		57,60,347.00	2,52,475.00	60,12,822.00	6,90,588.00	3,00,642.00	-	9,91,230.00	50,21,592.00	50,69,759.00
R&C Cell										
Upto the year 2013-14		18,775.00		18,775.00	3,756.00	939.00	-	4,695.00	14,080.00	15,019.00

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During the year 2014-15	89,962.00		89,962.00	17,992.00	4,498.00	-	22,490.00	67,472.00	71,970.00
During the year 2019-20		24,900.00	24,900.00		1,245.00	-	1,245.00	23,655.00	-
Sub Total	1,08,737.00	24,900.00	1,33,637.00	21,748.00	6,682.00	-	28,430.00	1,05,207.00	86,989.00
Dean Academics									
During the year 2015-16	1,68,355.00		1,68,355.00	33,672.00	8,418.00	-	42,090.00	1,26,265.00	1,34,683.00
During the year 2019-20		1,01,125.00	1,01,125.00		5,056.00	-	5,056.00	96,069.00	-
Sub Total	1,68,355.00	1,01,125.00	2,69,480.00	33,672.00	13,474.00	-	47,146.00	2,22,334.00	1,34,683.00
Student Welfare Fund									
Upto the year 2013-14	1,23,920.00		1,23,920.00	24,784.00	6,196.00	-	30,980.00	92,940.00	99,136.00
Sub Total	1,23,920.00	-	1,23,920.00	24,784.00	6,196.00	-	30,980.00	92,940.00	99,136.00
Total	61,61,359.00	3,78,500.00	65,39,859.00	7,70,792.00	3,26,994.00	-	10,97,786.00	54,42,073.00	53,90,567.00

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'C' OF SCH 4

FIXED ASSETS

C(8). LIBRARY BOOKS

(Amount in Rs.)

Description	Depreciation Rate	Gross Block			Depreciation			Net Block		
		As at April 01, 2019	Additions/ (Deductions)	As at March 31, 2020	As at April 01, 2019	Depreciation during the year	Adjustment during the year	As at March 31, 2020	As at March 31, 2020	As at March 31, 2019
Assets out of Capital Fund:	10%- SLM									
Upto the year 2013-14 (Residual Value <= 5%)		5,27,64,729.00	-	5,27,64,729.00	5,01,26,492.55	-		5,01,26,492.55	26,38,236.45	26,38,236.45
Upto the year 2013-14		13,17,24,709.00	-	13,17,24,709.00	12,51,38,474.00	-		12,51,38,474.00	65,86,235.00	65,86,235.00
During the year 2014-15		2,26,609.00	-	2,26,609.00	1,13,305.00	22,661.00		1,35,966.00	90,643.00	1,13,304.00
During the year 2017-18		44,93,808.00	-	44,93,808.00	8,98,762.00	4,49,381.00		13,48,143.00	31,45,665.00	35,95,046.00
During the year 2018-19		38,01,666.00		38,01,666.00	3,80,167.00	3,80,167.00		7,60,334.00	30,41,332.00	34,21,499.00
During the year 2019-20			69,352.00	69,352.00		6,935.00		6,935.00	62,417.00	-

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Sub Total		19,30,11,521.00	69,352.00	19,30,80,873.00	17,66,57,200.55	8,59,144.00	-	17,75,16,344.55	1,55,64,528.45	1,63,54,320.45
Assets out of Institute Receipts	10%- SLM									
Upto the year 2013-14		30,89,680.00	-	30,89,680.00	29,35,196.00			29,35,196.00	1,54,484.00	1,54,484.00
Sub Total		30,89,680.00	-	30,89,680.00	29,35,196.00	-	-	29,35,196.00	1,54,484.00	1,54,484.00
Total		19,61,01,201.00	69,352.00	19,61,70,553.00	17,95,92,396.55	8,59,144.00	-	18,04,51,540.55	1,57,19,012.45	1,65,08,804.45

Description	Depreciation Rate	Gross Block			Depreciation			Net Block		
		As at April 01, 2019	Additions/ (Deductions)	As at March 31, 2020	As at April 01, 2019	Depreciation during the year	Adjustment during the year	As at March 31, 2020	As at March 31, 2019	
Assets out of Subsidiaries Fund	10%- SLM									-
Project Account										
Upto the year 2013-14		7,15,863.00		7,15,863.00	2,86,344.00	71,586.00		3,57,930.00	3,57,933.00	4,29,519.00
During the year 2014-15		75,588.00		75,588.00	30,236.00	7,559.00		37,795.00	37,793.00	45,352.00
During the year 2015-16		30,469.00		30,469.00	12,188.00	3,047.00		15,235.00	15,234.00	18,281.00
During the year 2016-17		20,000.00		20,000.00	6,000.00	2,000.00		8,000.00	12,000.00	14,000.00
During the year 2017-18		95,234.00		95,234.00	19,046.00	9,523.00		28,569.00	66,665.00	76,188.00
During the year 2019-20			20,000.00	20,000.00		2,000.00		2,000.00	18,000.00	-
Sub Total		9,37,154.00	20,000.00	9,57,154.00	3,53,814.00	95,715.00	-	4,49,529.00	5,07,625.00	5,83,340.00
TEQIP II										
Upto the year 2013-14		1,38,61,076.00		1,38,61,076.00	55,44,432.00	13,86,108.00		69,30,540.00	69,30,536.00	83,16,644.00
Sub Total		1,38,61,076.00	-	1,38,61,076.00	55,44,432.00	13,86,108.00	-	69,30,540.00	69,30,536.00	83,16,644.00
Total		1,47,98,230.00	20,000.00	1,48,18,230.00	58,98,246.00	14,81,823.00	-	73,80,069.00	74,38,161.00	88,99,984.00

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'C' OF SCH 4

FIXED ASSETS

C(9). OTHER FIXED ASSETS

(Amount in Rs.)

Description	Depreciation Rate	Gross Block			Depreciation				Net Block	
		As at April 01, 2019	Additions/ (Deductions)	As at March 31, 2020	As at April 01, 2019	Depreciation during the year	Adjustment during the year	As at March 31, 2020	As at March 31, 2020	As at March 31, 2019
Assets out of Capital Fund:	7.5%- SLM									
Upto the year 2013-14 (Residual Value <= 5%)		1,42,89,162.00	-	1,42,89,162.00	1,35,74,703.90			1,35,74,703.90	7,14,458.10	7,14,458.10
Upto the year 2013-14		4,29,43,733.60	-	4,29,43,733.60	1,95,34,247.00	32,20,780.00	-	2,27,55,027.00	2,01,88,706.60	2,34,09,486.60
During the year 2014-15		2,70,20,157.00	-	2,70,20,157.00	1,01,32,560.00	20,26,512.00	-	1,21,59,072.00	1,48,61,085.00	1,68,87,597.00
During the year 2015-16		6,71,338.00	-	6,71,338.00	2,01,400.00	50,350.00	-	2,51,750.00	4,19,588.00	4,69,938.00
During the year 2017-18		1,81,884.00	-	1,81,884.00	27,282.00	13,641.00		40,923.00	1,40,961.00	1,54,602.00
During the year 2018-19		90,047.00		90,047.00	6,754.00	6,754.00		13,508.00	76,539.00	83,293.00
During the year 2019-20			6,53,822.00	6,53,822.00		49,037.00		49,037.00	6,04,785.00	-
Sub Total		8,51,96,321.60	6,53,822.00	8,58,50,143.60	4,34,76,946.90	53,67,074.00	-	4,88,44,020.90	3,70,06,122.70	4,17,19,374.70
Assets out of Institute Receipts	7.5%- SLM									
Upto the year 2013-14		1,37,087.00	-	1,37,087.00	1,30,233.00			1,30,233.00	6,854.00	6,854.00
Sub Total		1,37,087.00	-	1,37,087.00	1,30,233.00	-	-	1,30,233.00	6,854.00	6,854.00
Total		8,53,33,408.60	6,53,822.00	8,59,87,230.60	4,36,07,179.90	53,67,074.00	-	4,89,74,253.90	3,70,12,976.70	4,17,26,228.70

Description	Depreciation Rate	Gross Block			Depreciation			Net Block		
		As at April 01, 2019	Additions/ (Deductions)	As at March 31, 2020	As at April 01, 2019	Depreciation during the year	Adjustment during the year	As at March 31, 2020	As at March 31, 2020	As at March 31, 2019
Assets out of Subsidiaries Fund	7.5%- SLM									
Student Welfare Fund										
Upto the year 2013-14		10,15,359.00		10,15,359.00	3,04,608.00	76,152.00		3,80,760.00	6,34,599.00	7,10,751.00
Sub Total		10,15,359.00	-	10,15,359.00	3,04,608.00	76,152.00	-	3,80,760.00	6,34,599.00	7,10,751.00
Alumni Association										
During the year 2016-17		23,358.00	(23,358.00)	-	7,008.00		(7,008.00)	-	-	16,350.00
During the year 2018-19		13,710.00	(13,710.00)	-	1,028.00		(1,028.00)	-	-	12,682.00
Sub Total		37,068.00	(37,068.00)	-	8,036.00	-	(8,036.00)	-	-	29,032.00
Total		10,52,427.00	(37,068.00)	10,15,359.00	3,12,644.00	76,152.00	(8,036.00)	3,80,760.00	6,34,599.00	7,39,783.00

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'C' OF SCH 4

FIXED ASSETS

C(10). TUBEWELL AND WATER SUPPLY

(Amount in Rs.)

Description	Depreciation Rate	Gross Block			Depreciation			Net Block		
		As at April 01, 2019	Additions/ (Deductions)	As at March 31, 2020	As at April 01, 2019	Depreciation during the year	Adjustment during the year	As at March 31, 2020	As at March 31, 2020	As at March 31, 2019
Assets out of Capital Fund:	2%- SLM									
Upto the year 2013-14		20,02,100.00	-	20,02,100.00	8,66,355.00	40,042.00	-	9,06,397.00	10,95,703.00	11,35,745.00
During the year 2016-17		1,74,353.00	-	1,74,353.00	10,461.00	3,487.00	-	13,948.00	1,60,405.00	1,63,892.00
During the year 2017-18		36,04,140.00	-	36,04,140.00	1,44,166.00	72,083.00		2,16,249.00	33,87,891.00	34,59,974.00
Sub Total		57,80,593.00	-	57,80,593.00	10,20,982.00	1,15,612.00	-	11,36,594.00	46,43,999.00	47,59,611.00
Total		57,80,593.00	-	57,80,593.00	10,20,982.00	1,15,612.00	-	11,36,594.00	46,43,999.00	47,59,611.00

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'C' OF SCH 4

FIXED ASSETS

C(11). ROAD

(Amount in Rs.)

Description	Depreciation Rate	Gross Block			Depreciation			Net Block	
		As at April 01, 2019	Additions/ (Deductions)	As at March 31, 2020	As at April 01, 2019	Depr. during the year	Adj. during the year	As at March 31, 2020	As at March 31, 2019
Assets out of Subsidiaries Fund	20%- SLM								
Industrial Estate									
During the year 2019-20		-	1,75,76,942.00	1,75,76,942.00	-	3,51,539.00	-	3,51,539.00	1,72,25,403.00
Sub Total		-	1,75,76,942.00	1,75,76,942.00	-	3,51,539.00	-	3,51,539.00	1,72,25,403.00
Total		-	1,75,76,942.00	1,75,76,942.00	-	3,51,539.00	-	3,51,539.00	1,72,25,403.00

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'C' OF SCH 4

FIXED ASSETS

C(12). CAPITAL WIP

(Amount in Rs.)

Description	As at April 01, 2019	Additions/ (Deductions)	As at March 31, 2020
A) WIP Assets out of Non Recurring Grant (OH - 35)			
WIP- Construction of Approach Road for Newly Constructed Underpass below the Railway Track connecting to Academic Campus to Residential Campus	3,31,29,087.00	4,62,24,000.00	7,93,53,087.00
WIP- SITC of Lift at various buildings of MNNIT	83,69,630.00	-	83,69,630.00
WIP- Repair of Drains/laying of Storm Sewer Line and provision of Footpath in the Institute Campus and Repair of Roads in the Hostel Campus	3,89,29,834.00	2,26,34,272.00	6,15,64,106.00
WIP- Construction of New Tube well for Academic Campus, Residential Campus and Hostel Campus	72,08,860.00	-	72,08,860.00
WIP- Providing and Laying of Water Proofing Treatment for Boys & Girls Hostel	75,61,145.00	84,27,570.00	1,59,88,715.00

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Construction of Boundary Wall-WIP		3,48,66,400.00	3,48,66,400.00
External Renovation of International House- WIP		18,99,475.00	18,99,475.00
Provision of Security Light-WIP		63,17,500.00	63,17,500.00
Renovation and External Painting of Buildings-WIP		1,69,74,570.00	1,69,74,570.00
Renovation and Painting of Hostel- WIP		1,72,82,837.00	1,72,82,837.00
Widening and Recarpeting of Roads- WIP		3,24,87,000.00	3,24,87,000.00
Total (A)	9,51,98,556.00	18,71,13,624.00	28,23,12,180.00
B) WIP Assets out of Hefa Loan			
WIP-Boys Hostel & Faculty Housing	4,23,06,221.00	-	4,23,06,221.00
WIP- Girls Hostel - Aug of Acad Infrastructure	6,38,35,837.35	14,56,16,746.00	20,94,52,583.35
Total (B)	10,61,42,058.35	14,56,16,746.00	25,17,58,804.35
Total	20,13,40,614.35	33,27,30,370.00	53,40,70,984.35

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'C' OF SCH 4

FIXED ASSETS

C(13). COMPUTER SOFTWARE

(Amount in Rs.)

Description	Depreciation Rate	Gross Block			Depreciation				Net Block	
		As at April 01, 2019	Additions/ (Deductions)	As at March 31, 2020	As at April 01, 2019	Depreciation during the year	Adjustment during the year	As at March 31, 2020	As at March 31, 2020	As at March 31, 2019
Assets out of Capital Fund:	40%- SLM									
During the year 2014-15		22,42,800.00	-	22,42,800.00	22,42,800.00		-	22,42,800.00	-	-
During the year 2016-17		22,97,810.00		22,97,810.00	22,97,810.00			22,97,810.00	-	-
During the year 2017-18		17,70,260.00	-	17,70,260.00	14,16,208.00	3,54,052.00		17,70,260.00	-	3,54,052.00
During the year 2018-19		8,85,000.00		8,85,000.00	3,54,000.00	3,54,000.00		7,08,000.00	1,77,000.00	5,31,000.00
During the year 2019-20			4,66,518.00	4,66,518.00		1,86,607.00		1,86,607.00	2,79,911.00	-
Total		71,95,870.00	4,66,518.00	76,62,388.00	63,10,818.00	8,94,659.00	-	72,05,477.00	4,56,911.00	8,85,052.00

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'C' OF SCH 4

FIXED ASSETS

C(14). LIBRARY BOOKS E-JOURNALS

(Amount in Rs.)

Description	Depreciation rate	Gross Block			Depreciation			Net Block	
		As at April 01, 2019	Additions/ (Deductions)	As at March 31, 2020	As at April 01, 2019	Depreciation during the year	Adjustment during the year	As at March 31, 2020	As at March 31, 2019
Assets out of Capital Fund:	40%- SLM								
During the year 2014-15		36,74,129.13	-	36,74,129.13	36,74,129.13		-	36,74,129.13	-
During the year 2015-16		9,48,69,915.00	-	9,48,69,915.00	9,48,69,915.00			9,48,69,915.00	-
During the year 2016-17		38,03,706.00	-	38,03,706.00	38,03,706.00		-	38,03,706.00	-
During the year 2017-18		11,09,123.00	-	11,09,123.00	8,87,298.00	2,21,825.00		11,09,123.00	-
During the year 2018-19		1,33,24,339.00		1,33,24,339.00	53,29,736.00	53,29,736.00		1,06,59,472.00	26,64,867.00
During the year 2019-20			1,25,23,580.00	1,25,23,580.00		50,09,432.00		50,09,432.00	75,14,148.00
Total		11,67,81,212.13	1,25,23,580.00	12,93,04,792.13	10,85,64,784.13	1,05,60,993.00	-	11,91,25,777.13	1,01,79,015.00

SCHEDULE FORMING PART OF BALANCE SHEET

SCHEDULE 5- INVESTMENTS FROM EARMARKED/ ENDOWMENT FUNDS

(Amount-Rs)

Investments from Earmarked/ Endowment Funds	Current Year	Previous Year
1. In Central Government Securities	-	-
2. In State Government Securities		
3. Other approved Securities	-	-
4. Shares	-	-
5. Debentures and Bonds	-	-
6. Term Deposits with Banks	-	-
7. Others (to be specified) (Refer Annexure D-1)	88,35,97,471.17	1,17,40,43,592.76

Total	88,35,97,471.17	1,17,40,43,592.76
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SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'D' OF SCH 5

INVESTMENTS

'D-1' - INVESTMENTS FROM EARMARKED/ ENDOWMENT FUNDS

Particulars	Opening Balance as on 01/04/2019	Deposited during the Year	Transferred	Encashed during the Year	As at March		(Amount in Rs.) As at March
					31, 2020	31, 2019	
General Provident Fund:							
Treasury Account	10,07,349.00				10,07,349.00		10,07,349.00
Fixed Deposit with Bank	26,81,26,553.00	28,35,77,581.00		26,81,26,503.00	28,35,77,631.00		26,81,26,553.00
Interest Accrued on FDR-GPF	55,97,288.00	1,66,82,676.00		1,69,65,158.00	53,14,806.00	28,98,99,786.00	55,97,288.00
Contributory Provident Fund:							
Fixed Deposit Receipt	1,31,53,229.00	85,03,277.00		1,31,53,229.00	85,03,277.00		1,31,53,229.00
Interest Accrued on FDR-CPF	5,54,391.45	8,64,190.41		13,96,049.00	22,532.86	85,25,809.86	5,54,391.45
Corpus Fund:							
Corpus Fund-TDR	83,96,54,692.00	17,86,15,204.00	29,51,08,590.00	16,46,79,553.00	55,84,81,753.00		83,96,54,692.00
Development Fund-TDR	6,31,835.00	7,06,706.00		6,31,835.00	7,06,706.00		6,31,835.00
Maintenance Fund-TDR	6,31,835.00	7,06,706.00		6,31,835.00	7,06,706.00		6,31,835.00
Staff Development Fund-TDR	13,78,551.00	15,41,909.00		13,78,551.00	15,41,909.00	56,14,37,074.00	13,78,551.00
Interest Accrued on Corpus fund	4,30,66,384.59	72,34,617.00	1,27,28,754.00	1,39,35,651.00	2,36,36,596.59		4,30,66,384.59
Interest Accrued on Development fund	57,745.94	40,609.00		74,871.00	23,483.94		57,745.94
Interest Accrued on Maintenance fund	57,745.94	40,609.00		74,871.00	23,483.94		57,745.94
Interest Accrued on Staff Development fund	1,25,992.84	88,602.00		1,63,358.00	51,236.84	2,37,34,801.31	1,25,992.84
Total	1,17,40,43,592.76	49,86,02,686.41	30,78,37,344.00	48,12,11,464.00		88,35,97,471.17	1,17,40,43,592.76

SCHEDULE FORMING PART OF BALANCE SHEET

SCHEDULE 6- INVESTMENTS OTHERS

(Amount-Rs)

Investments - Others	Current Year	Previous Year
1. In Central Government Securities	-	-
2. In State Government Securities	-	-
3. Other approved Securities	-	-
4. Shares	-	-
5. Debentures and Bonds	-	-
6. Term Deposits with Banks (Refer Annexure E-1)	77,93,89,250.00	43,86,47,780.00
Total	77,93,89,250.00	43,86,47,780.00

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'E-1' OF SCH 6

INVESTMENT OTHERS

E-1 - NON-EARMARKED FUNDS- TERM DEPOSITS

(Amount in Rs.)

Particulars	Opening Balance as on 01/04/2019	Deposited during the Year	Encashed during the Year	Received	As at March 31, 2020		As at March 31, 2019
Institute:							
TDR -- Institute - SBI	22,96,53,757.00	63,85,61,362.00	59,31,89,717.00	29,51,08,590.00	57,01,33,992.00		22,96,53,757.00
TDR -- Out of Caution Money	1,02,27,804.00	-	-		1,02,27,804.00	58,03,61,796.00	1,02,27,804.00
Subsidiary Funds:							
T.D.R. with S.N.F.C.E.	1,98,02,189.00	40,00,000.00	-	-	2,38,02,189.00	-	1,98,02,189.00
T.D.R. with Student Welfare Fund	2,05,82,050.00	-	-	-	2,05,82,050.00	-	2,05,82,050.00
T.D.R. with Industrial Estate	2,85,25,216.00	-	-	-	2,85,25,216.00	-	2,85,25,216.00
T.D.R. with G. K. Agarwal Trust	3,00,000.00	-	-	-	3,00,000.00	-	3,00,000.00
T.D.R. with Alumni Association	1,10,41,505.00	-	1,10,41,505.00		-	-	1,10,41,505.00
T.D.R. with R&C Cell	8,48,22,302.00	52,68,985.00	-	-	9,00,91,287.00	-	8,48,22,302.00
T.D.R. with TEQIP II	1,14,000.00	-	-	-	1,14,000.00	-	1,14,000.00

T.D.R. with Sponsored Gold Medal	3,88,488.00	-	-	-	3,88,488.00	-	3,88,488.00
T.D.R. with Project Account	3,31,90,469.00	20,33,755.00	-	-	3,52,24,224.00	19,90,27,454.00	3,31,90,469.00
Total	43,86,47,780.00	64,98,64,102.00	60,42,31,222.00	29,51,08,590.00	-	77,93,89,250.00	43,86,47,780.00

SCHEDULE FORMING PART OF BALANCE SHEET

SCHEDULE 7- CURRENT ASSETS

(Amount-Rs)

Particulars	Current Year	Previous Year
1. Stock:		
a) Stores and Spares (Stock of Consumables & Other Materials)	-	-
b) Loose Tools	-	-
c) Publications	-	-
d) Laboratory Chemicals, consumables and glass ware		
e) Building Material		
f) Electric Material		
g) Stationery		
h) Water Supply Material		
2. Sundry Debtors:		
a) Debts Outstanding for a period exceeding six months- Industrial Estate	95,41,839.02	1,04,73,858.02
b) Others	-	-
3. Cash and Bank Balances (to be further classified as pertaining to earmarked fund or otherwise)		
Earmarked Funds		
a) With Scheduled Banks:		
On Current Accounts	-	-
On Saving Accounts (Refer Annexure F (1))	76,96,86,037.42	5,80,67,012.12
Non-Earmarked Funds		
a) With Scheduled Banks:		
On Saving Accounts (Refer Annexure F (2))	60,71,54,387.07	1,32,81,90,128.72
4. Post Office- Savings Accounts	-	-
Total (A)	1,38,63,82,263.51	1,39,67,30,998.86

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'F' OF SCH 7

CURRENT ASSETS

F1- EARMARKED FUNDS- BALANCE WITH BANKS & IN HAND

(Amount in Rs.)

Particulars	Current Year 2019-20			Previous Year 2018-19		
	Balance with Bank	Balance in Hand	Total Cash & Bank Balance	Balance with Bank	Balance in Hand	Total Cash & Bank Balance
Institute:						
Corpus Fund - SBI SB	75,84,14,051.00	-	75,84,14,051.00	4,93,72,957.00	-	4,93,72,957.00
Staff Development Fund- SBI SB	4,40,574.00	-	4,40,574.00	4,18,314.00	-	4,18,314.00
Development/Renewal Fund- SBI SB	4,23,042.00	-	4,23,042.00	4,01,880.00	-	4,01,880.00
Maintenance Fund- SBI SB	4,22,449.00	-	4,22,449.00	4,01,326.00	-	4,01,326.00
GPF-Vijaya Bank SB	29,40,967.00	-	29,40,967.00	63,511.00	-	63,511.00
CPF-SBI SB	1,13,413.12	-	1,13,413.12	53,180.12	-	53,180.12
New Pension Scheme-Vijaya Bank SB	69,31,541.30	-	69,31,541.30	73,55,844.00	-	73,55,844.00
Total	76,96,86,037.42	-	76,96,86,037.42	5,80,67,012.12	-	5,80,67,012.12

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'F' OF SCH 7

CURRENT ASSETS

F-2 - NON-EARMARKED FUNDS: BALANCE WITH BANKS & IN HAND

(Amount in Rs.)

Particulars	Current Year 2019-20			Previous Year 2018-19		
	Balance with Bank	Balance in Hand	Total Cash & Bank Balance	Balance with Bank	Balance in Hand	Total Cash & Bank Balance
Institute:						
Cash in Hand		6,400.00	6,400.00		15,865.00	15,865.00
Vijaya Bank with Autosweep-01	12,53,60,613.70		12,53,60,613.70	53,46,42,931.06		53,46,42,931.06
Vijaya Bank with Autosweep-62	11,61,41,920.89		11,61,41,920.89			

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State Bank of India - Power Jyoti	0.41		0.41	0.67		0.67
State Bank of India - Fees A/C with Autosweep	11,53,19,618.76		11,53,19,618.76	56,65,17,565.24		56,65,17,565.24
Sub Total	35,68,22,153.76	6,400.00	35,68,28,553.76	1,10,11,60,496.97	15,865.00	1,10,11,76,361.97
Subsidiary Funds:						
Admission Committee	7,04,312.00		7,04,312.00	7,04,312.00		7,04,312.00
Industrial Estate	39,42,626.01		39,42,626.01	1,26,96,474.51		1,26,96,474.51
Kitchen Project	6,272.00		6,272.00	6,272.00		6,272.00
Text Book Lending Bank	6,40,294.00		6,40,294.00	6,09,916.00		6,09,916.00
G.K. Agarwal Trust	9,34,461.20		9,34,461.20	3,07,778.00		3,07,778.00
Nodal Centre	82,770.00		82,770.00	82,770.00		82,770.00
Product Development & Training Centre	2,24,309.00		2,24,309.00	2,16,274.00		2,16,274.00
Student Welfare Fund	2,33,13,809.51		2,33,13,809.51	83,88,546.51		83,88,546.51
School of Non Formal & Cont. Education	14,95,958.00		14,95,958.00	52,02,017.00		52,02,017.00
Alumni Association	-		-	64,23,120.34		64,23,120.34
TEQIP - II	1,54,532.50		1,54,532.50	20,640.00		20,640.00
Research & Consultancy Cell	5,59,77,820.58		5,59,77,820.58	2,96,69,330.58		2,96,69,330.58
Dean Academic Affairs	6,11,16,035.58		6,11,16,035.58	6,99,56,014.08		6,99,56,014.08
Project Account	10,02,59,396.73		10,02,59,396.73	9,23,45,321.73		9,23,45,321.73
Sponsored Gold Medal	14,73,236.20		14,73,236.20	3,84,980.00		3,84,980.00
Sub Total	25,03,25,833.31	-	25,03,25,833.31	22,70,13,766.75	-	22,70,13,766.75
Total	60,71,47,987.07	6,400.00	60,71,54,387.07	1,32,81,74,263.72	15,865.00	1,32,81,90,128.72

SCHEDULE FORMING PART OF BALANCE SHEET
SCHEDULE 8 -- LOANS, ADVANCES AND DEPOSITS

(Amount-Rs)

Particulars	Current Year	Previous Year
1. Advances to employees: (Non-interest bearing)		
a) Salary	-	-
b) Festival	-	-
c) Medical Advance	-	-

d) Other (to be specified) (Refer Annexure G (1) &(2))	66,41,812.00	80,10,279.00
2. Long Term Advances to employees: (Interest bearing)		
a) Vehicle loan	-	-
b) Home loan	-	-
c) Others (to be specified)	-	-
3. Advances and other amounts recoverable in cash or in kind or for value to be received:		
a) On Capital Account (Refer Annexure G (3))	67,61,42,219.65	42,04,74,664.65
b) to suppliers	-	-
c) Others (Refer Annexure G (4))	1,10,98,182.00	2,40,44,777.00
4. Prepaid Expenses		
a) Insurance	-	-
b) Other expenses		
c) Software	-	-
5. Deposits		
a) Telephone	-	-
b) Lease Rent	-	-
c) Electricity	-	-
d) AICTE, if applicable	-	-
e) Others (to be specified)	-	-
6. Income Accrued:		
a) On Investments other than Earmarked/ Endowment Funds (Refer Annexure G (5))	2,90,22,119.00	1,72,79,007.00
b) On Investments-Others	-	-
c) On Loans and Advances	-	-
d) Others	-	-
(includes income due unrealized-Rs.....)		
7. Other receivable		
a) Debit balances in Sponsored Projects	-	-
b) Debit balances in Fellowship & Scholarship (Refer Annexure G (6))	62,40,657.00	64,24,371.00
c) Grants Recoverable		-
d) Excess Utilisation Of Grant		-

8. Claims Receivable		-
Tax Deducted at Source	3,26,38,248.00	2,12,63,824.00
GST TDS- R&C Cell	88,076.00	84,000.00
Total	76,18,71,313.65	49,75,80,922.65

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE G OF SCH 8

LOANS, ADVANCES AND DEPOSITS

(Amount in Rs.)

Particulars	Opening Balance as on 01/04/2019	Advances given during the Current Year 2019-20	Advances Adjusted during the Current Year 2019-20	Journal Entry Adjustments	As at March 31, 2020	As at March 31, 2019
G(1). Advances to Employees						
1. Salary						
Institute-Staff Advances - G-(i)	20,96,942.00	82,13,007.00	80,65,566.00	-	22,44,383.00	20,96,942.00
Institute- Permanent Imprest - G-(ii)	8,86,509.00	2,47,436.00	1,86,489.00	-	9,47,456.00	8,86,509.00
Total	29,83,451.00	84,60,443.00	82,52,055.00	-	31,91,839.00	29,83,451.00
G(2). Advances - Others						
Institute-Interest recoverable from GPF	9,70,000.00	-	-	-	9,70,000.00	9,70,000.00
Institute-Science City- Recoverable Expense	92,325.00	-	-	-	92,325.00	92,325.00
Institute-LC Debit on account Project	-	11,96,108.00	-	-	11,96,108.00	-
TEQIP III	31,58,002.00	55,00,000.00	82,72,963.00	-	3,85,039.00	31,58,002.00
Subsidiary-Miscellaneous Advances	8,06,501.00	-	-	-	8,06,501.00	8,06,501.00
Total	50,26,828.00	66,96,108.00	82,72,963.00	-	34,49,973.00	50,26,828.00

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE G OF SCH 8
(Amount in Rs.)

Particulars	Opening Balance as on 01/04/2019	Advances given during the Current Year 2019-20	Advances Adjusted during the Current Year 2019-20	Journal Entry Adjustments	As at March 31, 2020	As at March 31, 2019
G-3. Advances and other amounts recoverable in cash or in kind or for value to be received -- On Capital Account						
Advances for Fixed Assets & Revenue Expenses-G-(iii)	41,90,71,798.65	58,75,59,198.00	33,27,30,370.00	-	67,39,00,626.65	41,90,71,798.65
Subsidiary						
Project Account - Advance for Plant and Machinery	14,02,866.00	15,00,000.00	6,61,273.00		22,41,593.00	14,02,866.00
Total	42,04,74,664.65	58,90,59,198.00	33,27,30,370.00	-	67,61,42,219.65	42,04,74,664.65
G(4). Advances and other amounts recoverable in cash or in kind or for value to be received -- Others						
Institute						
Recoverable Deposit- Institute- G.I. for Students	(99,205.00)	11,84,340.00	14,75,616.00		(3,90,481.00)	(99,205.00)
Recoverable Deposit- Institute-Group Insurance Scheme	2,32,880.00	12,77,533.00	13,13,943.00		1,96,470.00	2,32,880.00
Subsidiary						
Subsidiary- Alumni Association - Advance & Imprest	55,908.00		55,908.00	-	-	55,908.00
Subsidiary-Dean Academics - Advances	10,38,510.00			-	10,38,510.00	10,38,510.00
Subsidiary-Project Account - Advance & Imprest	7,49,355.00	20,47,813.00	10,89,467.00	-	17,07,701.00	7,49,355.00
R&C Cell - Advances & Imprest	15,38,229.00	30,28,515.00	26,19,720.00	-	19,47,024.00	15,38,229.00
R&C Cell - Receivable against Uncleared Cheque	1,02,630.00			-	1,02,630.00	1,02,630.00
R&C Cell - Receivable from Project Account	(1,60,845.00)	5,22,572.00	-	-	3,61,727.00	(1,60,845.00)
R&C Cell - Loan/Cont. to GPF A/c towards Interest	78,00,000.00		78,00,000.00	-	-	78,00,000.00
R&C Cell - TEQIP III	15,00,000.00				15,00,000.00	15,00,000.00
SNFCE - Receivable against FDP	14,81,074.00			-	14,81,074.00	14,81,074.00
SNFCE- C-Dac	1,26,608.00				1,26,608.00	1,26,608.00
SNFCE- Advances & Imprest	5,000.00				5,000.00	5,000.00
TEQIP III - Receivable from NIPU	-	4,33,336.00	-		4,33,336.00	-

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Subsidiary-Student Welfare Fund - Advance	1,87,827.00			-	1,87,827.00	1,87,827.00
Subsidiary-Student Welfare Fund - LIC	37,636.00			-	37,636.00	37,636.00
Industrial Estate-Advance for Construction of Road	75,50,000.00	99,88,420.00	1,75,38,420.00	-	-	75,50,000.00
Industrial Estate-Advance for Imprest	1,500.00				1,500.00	1,500.00
Industrial Estate-Recoverable from Institute on account of TDS	1,09,398.00			-	1,09,398.00	1,09,398.00
Industrial Estate-Service Tax under Appeal	14,39,166.00	-	14,39,166.00		-	14,39,166.00
Industrial Estate-Service Tax Receivable From Shed Owners		21,14,526.00	2,11,410.00		19,03,116.00	
Loan to Tanzanian Student Project	2,51,000.00			-	2,51,000.00	2,51,000.00
Loan to Student Subsidiary Funds	91,000.00			-	91,000.00	91,000.00
Recoverable Deposit- Subsidiaries-Security & Earnest Money	7,106.00				7,106.00	7,106.00
Total	2,40,44,777.00	2,05,97,055.00	3,35,43,650.00	-	1,10,98,182.00	2,40,44,777.00

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE G OF SCH 8

G(5). INCOME ACCRUED - ON INVESTMENTS OTHER THAN EARMARKED/ENDOWMENT FUNDS

(Amount in Rs.)

Particulars	Opening Balance as on 01/04/2019	Transactions during the year 2019-20			As at March 31, 2020	As at March 31, 2019
		Debit	Credit	Received		
On Term Deposit						
Institute:						
TDR - Institute	1,61,95,266.00	5,52,28,531.00	5,67,74,645.00	1,27,28,754.00	2,73,77,906.00	1,61,95,266.00
Subsidiary Funds:						
T.D.R. with Alumni Association	36,582.00	-	36,582.00		-	36,582.00
T.D.R. with Sponsored Gold Medal	2,435.00	-	-		2,435.00	2,435.00
T.D.R. with Industrial Estate	6,43,123.00	5,97,054.00	-		12,40,177.00	6,43,123.00
Student Welfare Fund						
T.D.R. with Student Welfare Fund	1,09,675.00	-	-		1,09,675.00	1,09,675.00

T.D.R. out of Caution Money	2,91,926.00	-	-		2,91,926.00	2,91,926.00
Total	1,72,79,007.00	5,58,25,585.00	5,68,11,227.00	1,27,28,754.00	2,90,22,119.00	1,72,79,007.00

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE G OF SCH 8

G(6). DEBIT BALANCES IN FELLOWSHIP & SCHOLARSHIP

(Amount in Rs.)

Head of Account	Opening Balance as on 01/04/2019		Transaction During the Year 2019-20		Closing Balance as on 31/03/2020	
	Debit	Credit	Debit	Credit	Debit	Credit
Board of Apprenticeship Training	13,29,636.00		-	-	13,29,636.00	-
CSIR Delhi	6,43,988.00		1,21,761.00	3,05,475.00	4,60,274.00	-
Fellowship (MHRD)	1,47,489.00		-	-	1,47,489.00	-
ICSSR Project	1,82,000.00		-	-	1,82,000.00	-
National Seminar (HSS Department)	1,40,017.00		-	-	1,40,017.00	-
PHE Stip & Contingency	45,485.00		-	-	45,485.00	-
QIP Polytechnique	35,67,881.00		-	-	35,67,881.00	-
Seminar on Electric Power Conversion	72,458.00		-	-	72,458.00	-
UPCST Domestic Waste Water Treatment	79,402.00		-	-	79,402.00	-
Workshop Virtual Instrumentation & Its Application	1,556.00		-	-	1,556.00	-
Fellowship (CSIR)	2,14,459.00		-	-	2,14,459.00	-
Total	64,24,371.00	-	1,21,761.00	3,05,475.00	62,40,657.00	-

GROUPING FORMING PART OF THE SCHEDULE TO THE BALANCE SHEET

ANNEXURE G-1 OF SCH 8

LOANS, ADVANCES AND DEPOSITS

G-(i) - Advances to Staff

SI. N o.	Particulars	Opening Balance	During the year		Closing Balance
			Debit	Credit	
1	Dr. Abhishek Kumar Tiwari	-	45,700.00	33,468.00	12,232.00

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2	Dr. Ajay Bharti	-	65,000.00	65,000.00	-
3	Sri Anirudh Kumar Chaudhary	-	60,000.00	60,000.00	-
4	Dr. Anuj Jain	37,630.00	90,000.00	90,000.00	37,630.00
5	Dr. Anupam Rawat	-	55,000.00	4,652.00	50,348.00
6	Sri Arvind Kant Singh	37,000.00	2,29,954.00	2,66,954.00	-
7	Dr. Ashutosh Kr Upadhyay	-	1,15,960.00	90,000.00	25,960.00
8	Dr. Ashutosh Pandey	-	1,600.00	1,600.00	-
9	Dr. Asim Mukherjee	-	10,000.00	10,000.00	-
10	Dr. Basant Kumar	2,16,000.00	50,000.00	2,66,000.00	-
11	Sri Chandra Bhan Kushwaha	10,000.00	44,000.00	40,000.00	14,000.00
12	D. K.Yadav	-	72,900.00	13,280.00	59,620.00
13	Dr Ashutosh Mani	-	73,303.00	73,303.00	-
14	Dr Audhesh Narayan (Imprest Workshop)	14,605.00	-	-	14,605.00
15	Dr Bireshwar Paul	-	22,500.00	22,500.00	-
16	Dr Himanshu Mishra	-	85,500.00	85,500.00	-
17	Dr Sameer Srivastava	48,450.00	89,895.00	1,10,145.00	28,200.00
18	Dr Shadeo Padhey	-	15,000.00	15,000.00	-
19	Dr. A K Singh Ced	-	11,000.00	-	11,000.00
20	Dr. Ambak Kumar Rai (Biotech)	-	1,54,835.00	1,54,835.00	-
21	Dr. Ambalika Sinha	(800.00)	55,000.00	55,000.00	(800.00)
22	Dr. Anil Kumar Singh (CSED)	19,010.00	70,000.00	89,010.00	-
23	Dr. Anindya Bhar	-	50,000.00	50,000.00	-
24	Dr. Ankur Gaur	25,000.00	492.00	25,492.00	-
25	Dr. Anoj Kumar	19,000.00	-	19,000.00	-
26	Dr. Ashish N. Sawarkar	56,350.00	-	98,000.00	(41,650.00)
27	Dr. B. Vasu	-	50,000.00	50,000.00	-
28	Dr. Dipesh Shikchand Patle	-	2,07,630.00	2,07,630.00	-
29	Dr. G.P Sahu	-	1,06,800.00	1,06,800.00	-
30	Dr. Geetika	-	90,000.00	90,000.00	-
31	Dr. Mukesh Kumar	-	15,000.00	50.00	14,950.00

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32	Dr. P. Karuppannan	-	76,112.00	45,000.00	31,112.00
33	Dr. Parul Katiyar	-	22,800.00	22,800.00	-
34	Dr. Prabhu Sekar	-	13,500.00	13,500.00	-
35	Dr. R. P. Singh(NBA)	-	30,000.00	30,000.00	-
36	Dr. Radha Rani Mewaram	25,000.00	21,900.00	46,900.00	-
37	Dr. Rajesh Kumar Shastri	-	39,500.00	2,389.00	37,111.00
38	Dr. Rajitha B.	74,000.00	1,15,200.00	1,17,432.00	71,768.00
39	Dr. Rakesh Kumar	98,426.00	-	29,040.00	69,386.00
40	Dr. Rakesh Kumar(SMS)	-	9,000.00	9,000.00	-
41	Dr. Rakesh Narain	-	22,000.00	22,000.00	-
42	Dr. Ramesh Pandey	7,750.00	-	7,750.00	-
43	Dr. Rupesh Kumar Devang	-	3,46,050.00	3,46,050.00	-
44	Dr. S.N. Chaturvedi	-	75,000.00	17,740.00	57,260.00
45	Dr. Sanjeev Rai	19,000.00	-	19,000.00	-
46	Dr. Shailendra Kumar Mishra	90,000.00	26,000.00	-	1,16,000.00
47	Dr. Shambhavi Mishra	-	36,070.00	36,070.00	-
48	Dr. Shashank Srivastava	-	50,000.00	22,105.00	27,895.00
49	Dr. Shivesh Sharma	-	3,13,000.00	3,13,000.00	-
50	Dr. Tripti Singh	-	11,000.00	12.00	10,988.00
51	Dr. Vandana Agrawal	-	83,160.00	83,160.00	-
52	Dr. Vibhuti Tripathi	-	93,375.00	93,375.00	-
53	Dr. Vineed Narayan	-	14,400.00	14,400.00	-
54	Dr. Vishnu Agrawal	-	25,000.00	25,000.00	-
55	Dr. Dushyant Kumar Singh	-	2,80,000.00	-	2,80,000.00
56	Election Advance	27,000.00	-	-	27,000.00
57	Festival Advance	82,211.00	-	78,002.00	4,209.00
58	Gyanendra Kr. Tiwari	(500.00)	15,000.00	15,000.00	(500.00)
59	Sri Gyanendra Singh	-	9,000.00	9,000.00	-
60	Dr. H. S. Goyal Imprest	-	15,000.00	-	15,000.00
61	Sri Harish Chandra	-	11,790.00	-	11,790.00

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62	Dr. K. K. Mishra	2,09,904.00	-	2,09,904.00	-
63	Sri Kamla Prashad Maurya	-	43,060.00	43,060.00	-
64	Dr. Kumar Pallav	14,100.00	-	-	14,100.00
65	Dr. M. Venketesh Naiek	-	70,000.00	70,000.00	-
66	Sri Manas Agrawal	-	1,40,000.00	1,12,285.00	27,715.00
67	Dr. Manish Tiwari	-	10,000.00	10,000.00	-
68	Sri Manoj Singh Baunal	13,726.00	-	13,726.00	-
69	Dr. Mayank Pandey	-	1,00,000.00	1,00,000.00	-
70	Mohd. Saqib	-	2,00,000.00	-	2,00,000.00
71	Sri Chedi Lal Patel	-	34,380.00	34,380.00	-
72	Dr. Nand Kumar Singh (BT)	-	45,000.00	45,000.00	-
73	Dr. Nitin Singh	-	88,900.00	88,900.00	-
74	Sri Om Prakash	-	3,000.00	3,000.00	-
75	Dr. Pankaj Sikka	-	50,000.00	50,000.00	-
76	Dr. Pitam Singh	-	45,000.00	11,409.00	33,591.00
77	Dr. Pramod Kumar Yadav	-	7,500.00	7,500.00	-
78	Dr. Rahul Dev	49,000.00	60,000.00	1,09,000.00	-
79	Dr. Ram Ji Dwivedi	64,945.00	12,000.00	50,150.00	26,795.00
80	Dr. Rama Shankar	-	1,61,750.00	1,61,750.00	-
81	Dr. Ravi Prakash (Amd)	1,00,000.00	90,000.00	1,90,000.00	-
82	Sri S. P. Verma	-	33,000.00	7,415.00	25,585.00
83	Sri Satyajeet Kumar	-	15,000.00	15,000.00	-
84	Dr. Saurabh Mishra (SMS)	-	2,83,000.00	86,283.00	1,96,717.00
85	Dr. Shashwati Banerjee	-	70,000.00	21,756.00	48,244.00
86	Sri Shrikant Sharma (A/C)	-	3,65,000.00	3,65,000.00	-
87	Sri Shyam Babu	-	70,000.00	70,000.00	-
88	Dr. S. K. Poddar	78,230.00	-	-	78,230.00
89	Dr. Sonam Agrawal	-	80,000.00	80,000.00	-
90	Sri Akshoy Ranjan Paul	-	2,29,500.00	1,57,500.00	72,000.00
91	Sri Anil Kumar	1,05,000.00	89,500.00	70,959.00	1,23,541.00

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92	Sri Arvind Kumar Singh (E)	60.00	-	-	60.00
93	Sri D. S. Kushwaha	-	54,000.00	-	54,000.00
94	Sri H. I. Malik	25,000.00	-	-	25,000.00
95	Sri R. K. Sharma	63,000.00	1,70,000.00	1,91,000.00	42,000.00
96	Sri Rajeev Srivastava	6,955.00	-	-	6,955.00
97	Sri Rajendra Prashad	2,700.00	10,000.00	10,000.00	2,700.00
98	Sri Ramesh Kumar Tripathi	2,230.00	-	-	2,230.00
99	Sri Sanjay Singh	1,00,000.00	-	-	1,00,000.00
100	Sri Sanjay Yadav	13,960.00	2,96,496.00	2,96,496.00	13,960.00
101	Sri Srikant	1,08,000.00	-	1,08,000.00	-
102	Sri Trivikarma	-	2,10,600.00	2,10,600.00	-
103	Dr. Sushil Kumar	1,11,700.00	4,15,260.00	5,28,492.00	(1,532.00)
104	Dr. Tanuj Nandan	-	40,500.00	-	40,500.00
105	Dr. V Krishnarao Kandavli	-	20,000.00	-	20,000.00
106	Dr. V Murari	-	67,846.00	67,846.00	-
107	Dr. Varun Singh	-	2,57,684.00	1,94,757.00	62,927.00
108	Dr. Veena Singh	-	3,951.00	-	3,951.00
109	Dr. Vijay Bhaduria	-	1,18,264.00	1,18,264.00	-
110	Sri Vijay Pal (Ldc)	-	20,000.00	20,000.00	-
111	Sri Vinod Kr Mishra	40,000.00	-	-	40,000.00
112	Dr. Vishwajeet Pratap Singh	83,300.00	3,46,050.00	4,29,350.00	-
113	Dr. Yatish Joshi (SMS)	-	4,000.00	4,000.00	-
114	Dr. Yogendra Kumar Prajapati	-	91,840.00	91,840.00	-
Grand Total		20,96,942.00	82,13,007.00	80,65,566.00	22,44,383.00

GROUPING FORMING PART OF THE SCHEDULE TO THE BALANCE SHEET

ANNEXURE G-1 OF SCH 8

LOANS, ADVANCES AND DEPOSITS

G-(ii) - Permanent Imprest to Employees

Sl. No.	Particulars	Opening Balance	During the Year		Closing Balance
			Debit	Credit	
1	Dr. A. D. Bhatt (Imprest)	20,000.00	-	15,000.00	5,000.00
2	Dr. A. K. Sachan (Imprest)	10,000.00	-	-	10,000.00
3	Sri A. K. Singh AE (E) (Imprest)	25,000.00	-	-	25,000.00
4	Dr. A. K. Singh CED (Imprest)	5,000.00	-	-	5,000.00
5	Dr. Ambak Kumar Rai (Imperest)	35,000.00	-	-	35,000.00
6	Dr. Amit Dhawan (Imprest)	-	15,000.00	-	15,000.00
7	Sri Anil Kumar (Imprest)	14,822.00	-	-	14,822.00
8	Dr. Anil Kumar Singh Imprest	15,000.00	-	-	15,000.00
9	Dr. Animesh Ojha (Imprest)	8,185.00	-	15,000.00	(6,815.00)
10	Dr. Ashish Kumar Singh (Imprest)	-	15,000.00	-	15,000.00
11	Dr. Ashutosh Pandey (Imprest)	23,304.00	-	15,000.00	8,304.00
12	Sri Banwari Lal (Imprest)	10,000.00	-	10,000.00	-
13	Sri Danish Ansari (Imperest)	15,000.00	-	-	15,000.00
14	Dr. Deepesh Tiwari (Imprest)	2,000.00	-	-	2,000.00
15	Dr. Bashant Kumar (Imprest)	-	10,000.00	-	10,000.00
16	Dr Manisha Sachan (Imprest)	15,000.00	-	-	15,000.00
17	Dr. M. M. Gore (Imprest)	5,000.00	-	-	5,000.00
18	Dr. Nand Kumar Singh Imprest	15,000.00	-	-	15,000.00
19	Dr. Naresh Kumar (Imprest)	10,000.00	-	-	10,000.00
20	Dr. Navneet Kumar Singh (Imprest)	-	34,809.00	19,809.00	15,000.00
21	Dr. Paulson Samulel (Imprest)	15,000.00	-	-	15,000.00
22	Dr. Rajesh Kumar Shastri (Imprest)	-	10,000.00	-	10,000.00
23	Dr. Rajtha B (Imprest)	15,000.00	-	-	15,000.00

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24	Dr. Ranvijay (Imprest)	15,000.00	-	-	15,000.00
25	Dr. R D Gupta (Imprest)	10,000.00	-	10,000.00	-
26	Dr. Sahdeo Padhey (Imprest)	15,000.00	-	-	15,000.00
27	Dr. Sameer Srivastava (Imprest)	15,000.00	-	-	15,000.00
28	Dr. Shailendra Kumar Mishra Imprest	15,000.00	-	-	15,000.00
29	Dr. Shiv Dutta (Imprest)	15,000.00	-	-	15,000.00
30	Dr. Shwetank Parihar (Imprest)	10,000.00	-	9,936.00	64.00
31	Dr. Tripti Singh (Imprest)	-	15,000.00	-	15,000.00
32	Dr. Vijaya Bhaduariya (Imprest)	15,000.00	-	15,000.00	-
33	Dr. V R Komma Imprest	15,000.00	-	-	15,000.00
34	Dr. G. P. Sahu Imprest	15,000.00	-	15,000.00	-
35	Sri Gynendra Tiwari (AR) Imprest	10,000.00	-	-	10,000.00
36	Dr. K. K. Mishra	-	15,000.00	-	15,000.00
37	Dr. K. N. Pandey (Imprest)	23,583.00	-	-	23,583.00
38	Sri K. N. Singh (Imprest)	20,000.00	-	-	20,000.00
39	Sri Manas Agrawal (Imprest)	-	10,000.00	-	10,000.00
40	Smt. Manisha Yadav (Imprest)	-	15,000.00	-	15,000.00
41	Dr. Manish Gupta (Imprest)	15,000.00	-	-	15,000.00
42	Sri Manish Kumar (EE) (Imprest)	30,000.00	-	-	30,000.00
43	Dr. Mayank Pandey (Imprest)	15,000.00	-	-	15,000.00
44	Dr. Mukesh Kumar (Imprest)	15,000.00	-	-	15,000.00
45	Sri Nirmal Kumar Shukla (Imprest)	15,000.00	-	14,999.00	1.00
46	Dr. Niroj Banerjee (Imprest)	15,000.00	-	10,000.00	5,000.00
47	Dr. P. R. Agarwal (Imprest)	5,000.00	-	5,000.00	-
48	Dr. Pramod Kumar Yadav (Imprest)	15,000.00	-	-	15,000.00
49	Prof. Manoj Kumar (Imprest)	10,000.00	-	-	10,000.00
50	Dr. Radharani Mewaram (Imprest)	30,000.00	-	-	30,000.00
51	Dr. Rajesh Gupta (Imprest)	15,000.00	-	-	15,000.00
52	Dr. Rakesh Narayan (Imprest)	15,000.00	5,000.00	-	20,000.00
53	Dr. Ramesh Pandey (Imprest)	25,000.00	15,000.00	-	40,000.00

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54	Dr. Ramji Diwedi (Imprest)	15,000.00	-	-	15,000.00
55	Dr. Ravi Prakash Amd (Imprest)	5,000.00	-	-	5,000.00
56	Dr. Ravi Prakash NBA (Imprest)	2,500.00	-	-	2,500.00
57	R.C. Vaisya (Imprest)	-	15,000.00	-	15,000.00
58	Sri Ritesh Kumar Sahu (Imprest)	15,000.00	-	-	15,000.00
59	SriR K Pandey (Imprest)	5,000.00	-	-	5,000.00
60	Sri R K Sharma (Imperest)	10,000.00	-	-	10,000.00
61	Dr. R. K. Tripathi (Imprest)	-	2,500.00	-	2,500.00
62	Dr. R. P. Singh Imprest NBA	2,500.00	-	-	2,500.00
63	Dr. R. P Tiwari GIS Imprest	10,000.00	-	10,000.00	-
64	Dr. R. S. Yadav (Imprest)	-	10,000.00	-	10,000.00
65	Dr. R. P. Tiwari (Imprest)	10,000.00	-	-	10,000.00
66	Dr. Sarvesh Kumar Tiwari (Imprest)	15,000.00	35,127.00	-	50,127.00
67	Dr. Shivesh Sharma (Imprest)	30,000.00	-	-	30,000.00
68	Shri Sanjay Singh (Imprest)	10,000.00	-	-	10,000.00
69	Dr. Shubhi Purwar (Imprest)	15,000.00	-	-	15,000.00
70	Shyam Babau	-	10,000.00	-	10,000.00
71	Dr. Siraj Alam Warden (Imprest)	15,000.00	-	-	15,000.00
72	Dr. S. J. Pawar A/P(Imprest)	17,000.00	-	17,000.00	-
73	S. P. Verma (Imprest)	2,000.00	-	-	2,000.00
74	Dr. Sushil Kumar (Imprest)	10,000.00	-	4,745.00	5,255.00
75	Sri Vijay Kumar (Imprest)	-	15,000.00	-	15,000.00
76	Dr. V Krishna Rao (Imperest)	15,000.00	-	-	15,000.00
77	Dr. V. K. Srivastava (Imprest)	10,615.00	-	-	10,615.00
Grand Total		8,86,509.00	2,47,436.00	1,86,489.00	9,47,456.00

GROUPING FORMING PART OF THE SCHEDULE TO THE BALANCE SHEET

ANNEXURE G-3 OF SCH 8

LOANS, ADVANCES AND DEPOSITS

G -(iii) - ADVANCE FOR FIXED ASSETS & REVENUE EXPENSES

Sl.No.	Particulars	Opening Balance	During the Year		Closing Balance
			Debit	Credit	
1	Balmer Lawrie & Co.	12,35,000.00			12,35,000.00
2	Anjali Electronics	8,100.00			8,100.00
3	Augmentation (other Construction Work)	-	18,71,13,624.00	18,71,13,624.00	-
4	Autometer Alliance Ltd	68,360.00			68,360.00
5	Batra Electronic Cottage	23,490.00			23,490.00
6	Bhargava Engg. Works	60,800.00			60,800.00
7	Bhushan & Bhushan	1,25,928.00			1,25,928.00
8	Bombay Machinery	14,490.00			14,490.00
9	Carrier Aircon	43,346.00			43,346.00
10	Chemico Instruments Pltd	7,000.00			7,000.00
11	Comcare Enterprises	1,47,022.00			1,47,022.00
12	CPWD Advance	2,67,21,426.00			2,67,21,426.00
13	CPWD Advance- Construction of New Boys Hostel	31,86,53,998.00	25,65,33,000.00	-	57,51,86,998.00
14	EDS Technology	1,10,000.00			1,10,000.00
15	Elite Furniture	4,23,162.00			4,23,162.00
16	Gaur Electrical	68,580.00			68,580.00
17	HCL Info System	4,60,634.00			4,60,634.00
18	Hydraulic Engg Instrument	2,80,155.00			2,80,155.00
19	Indian Institute Of Foreign Trade	14,935.00			14,935.00
20	Indian Oil Corporation	10,962.00			10,962.00
21	Jamuna Marketing Pvt Ltd	1,87,034.00			1,87,034.00
22	Jay Pee Cement	34,500.00			34,500.00
23	Lab India Instrument	11,703.00			11,703.00

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24	Lalji Enterprises	5,000.00			5,000.00
25	Mack Electrical & Equipment	65,350.00			65,350.00
26	Matra Distributor	6,615.00			6,615.00
27	Minimax Electronics	13,208.00			13,208.00
28	M/S Bhargava Tyres	(18,844.00)			(18,844.00)
29	M/S Rites Ltd.	17,04,175.00			17,04,175.00
30	Rites Ltd. - A/c Girls Hostel - RT 5300010	6,61,20,242.65	14,39,12,574.00	14,56,16,746.00	6,44,16,070.65
31	Peco Cooling Tower	2,13,390.00			2,13,390.00
32	Pericom System	1,75,620.00			1,75,620.00
33	Point Stationery	13,189.00			13,189.00
34	Pragaya Electric Co.	5,625.00			5,625.00
35	Prism Cement	1,47,400.00			1,47,400.00
36	Project Officer Neda	1,35,143.00			1,35,143.00
37	Quartz Marketing System	1,08,061.00			1,08,061.00
38	Rai & Co	1,20,697.00			1,20,697.00
39	Ranial Graphics	92,388.00			92,388.00
40	Richa Medical Agency	(21.00)			(21.00)
41	Sahani Refrigeration	78,690.00			78,690.00
42	Sciencetech Technologies	9,208.00			9,208.00
43	Shaan Trader	1,29,736.00			1,29,736.00
44	Sharda Enterprises	3,03,290.00			3,03,290.00
45	Shivam Paints	35,696.00			35,696.00
46	SN Aqua System	69,360.00			69,360.00
47	SPIC Macay	10,000.00			10,000.00
48	SRK System	5,600.00			5,600.00
49	Surekha Sales Pvt Ltd	8,905.00			8,905.00
50	Surgico Medicare Agency	6,250.00			6,250.00
51	Tele Links	7,065.00			7,065.00
52	Total Presentation Devices	1,68,000.00			1,68,000.00
53	Tritech Enterprises	87,903.00			87,903.00

54	Voltas Ltd	5,34,232.00			5,34,232.00
Grand Total		41,90,71,798.65	58,75,59,198.00	33,27,30,370.00	67,39,00,626.65

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT
SCHEDULE 9 – ACADEMIC RECEIPTS**

(Amount-Rs)

Particulars	Current Year		Previous Year	
Fee from Students				
A. Academic				
Tuition Fees:				
Tuition Fees B.Tech	16,93,88,650.34		18,22,97,190.00	
Tuition Fees MBA	17,84,500.00		18,00,000.00	
Tuition Fees MCA	1,25,40,000.00		1,30,13,000.00	
Tuition Fees M.Tech	4,89,16,700.00		4,73,90,000.00	
Tuition Fees Ph.D	87,75,000.00		60,28,625.00	
Tuition Fees M.Sc.	5,22,050.00		4,80,000.00	
Tuition Fees DASA	8,66,65,368.00		10,26,66,400.00	
Sub Total (a)		32,85,92,268.34		35,36,75,215.00
Admission fee:				
Registration Fees M.Tech	62,700.00		1,35,400.00	
Registration Fees MBA	7,600.00		15,000.00	
Registration Fees MCA	29,700.00		51,100.00	
Registration Fees PhD	1,01,500.00		80,300.00	
Registration Fees MSC	3,600.00		6,400.00	
Registration Fees B.Tech	4,58,400.00		6,70,300.00	
Day Fees B.Tech	7,19,400.00		10,05,450.00	
Day Fees M.Tech	1,09,725.00		2,46,950.00	
Day Fees MBA	13,300.00		26,250.00	
Day Fees MCA	51,975.00		89,425.00	
Day Fees Ph.D	1,52,250.00		1,20,450.00	

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Day Fees MSC	5,400.00		9,600.00	
M.Tech/Ph.D Admission	43,82,000.00		34,01,600.00	
Sub Total (b)		60,97,550.00		58,58,225.00
Enrolment Fee (c)	4,457.00	4,457.00	32,29,200.00	32,29,200.00
Library fee (d)	17,11,750.00	17,11,750.00	23,96,250.00	23,96,250.00
Laboratory fee:				
Lab Fees B.Tech	11,99,000.00		16,75,750.00	
Lab Fees M.Tech	1,56,750.00		3,38,500.00	
Lab Fees MBA	19,000.00		37,500.00	
Lab Fees MCA	74,250.00		1,27,750.00	
Lab Fees Ph.D	2,53,750.00		2,00,750.00	
Lab Fees MSC	9,000.00		16,000.00	
Sub Total (e)		17,11,750.00		23,96,250.00
Syllabus fee (f)	2,62,800.00	2,62,800.00	3,94,800.00	3,94,800.00
B. Examinations				
Admission test fee				
Mark sheet, certificate fee				
Entrance examination fee				
C. Other fees				
Identity card fee	78,075.00		1,04,300.00	
Fine/Miscellaneous fee				
Medical fee	17,11,750.00		23,96,250.00	
Transportation fee:				
Bus Charges from Student	6,33,950.00		9,18,415.00	
Hostel fee				
Institute Fees	3,37,00,000.00			
Development Fees	7,36,500.00		12,33,000.00	
Magazine Fees	6,24,900.00		6,39,100.00	
Placement Charges	16,22,200.00		26,56,675.00	
Student Welfare Fees	20,62,300.00		4,62,000.00	

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Student Activity Fees	33,02,000.00			
User Charges Fees	1,83,17,500.00			
Total		6,27,89,175.00		84,09,740.00
D. Sale of publications				
Sale of syllabus and Question Paper, etc.				
Sale of prospectus including admission forms				
E. Other Academic Receipts				
DASA Fees	36,30,837.00	36,30,837.00	77,90,369.46	77,90,369.46
Grand Total		40,48,00,587.34		38,41,50,049.46

SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT

SCHEDULE 10- GRANTS & DONATIONS

(Amount-Rs)

Particulars	Recurring (OH-31)	Non-Recurring (OH-35)	Salary (OH-36)	Current Year Total	Previous Year Total
Balance B/F (a)	46,71,02,511.74	86,12,61,428.65	-	1,32,83,63,940.39	72,87,93,314.03
Add: Receipts during the year	-	-	-	-	-
Grant amount received (b)	32,64,97,000.00	14,97,00,000.00	72,96,01,000.00	1,20,57,98,000.00	1,64,28,00,000.00
Internal Accrual (Interest received) (c)	92,75,883.00	-	-	92,75,883.00	35,36,75,215.00
Total (d=a+b+c)	80,28,75,394.74	1,01,09,61,428.65	72,96,01,000.00	2,54,34,37,823.39	2,72,52,68,529.03
Less: Refund to UGC/Govt of India (e)	-	-	-	-	-
Balance (f = d-e)	80,28,75,394.74	1,01,09,61,428.65	72,96,01,000.00	2,54,34,37,823.39	2,72,52,68,529.03
Less: Utilised for Capital expenditure (A) (g)	1,00,31,269.00	23,29,24,929.00	-	24,29,56,198.00	24,55,17,610.35
Less: Utilised for HEFA Loan Interest Repayment (h)	92,75,883.00			92,75,883.00	-
Balance (i= f-g-h)	78,35,68,242.74	77,80,36,499.65	72,96,01,000.00	2,29,12,05,742.39	2,47,97,50,918.68
Less: Utilised for Revenue expenditure (B) (j)	58,10,30,458.66	5,24,22,567.00	55,88,95,604.00	1,19,23,48,629.66	1,03,79,73,075.73
Balance	20,25,37,784.08	72,56,13,932.65	17,07,05,396.00	1,09,88,57,112.73	1,44,17,77,842.95
Transfer of IRG in case of shortfall of Grants in terms of MHRD Letter No. Fno. 23011/02/2018-IF.I dated 25-10-2018 [From Grant Head OH 31 to OH 36]		-	-	-	(35,36,75,215.00)

Transfer to Corpus/Capital Fund in terms of MHRD Letter No. Fno. 23011/02/2018-IF.I dated 25-10-2018			-	-	24,02,61,312.44
Balance C/F (k = i-j)	20,25,37,784.08	72,56,13,932.65	17,07,05,396.00	1,09,88,57,112.73	1,32,83,63,940.39

SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT

SCHEDULE 11- INCOME FROM INVESTMENTS

(Amount-Rs)

Income from Earmarked/Endowment Funds	Current Year	Previous Year
1) Interest		
a) On Govt. Securities	-	-
b) Other Bonds/Debentures	-	-
2) Interest on Term deposits	12,70,508.00	12,13,348.00
3) Income accrued but not due on Term Deposits/Interest bearing advances to employees(Refer Schedule 2)	2,49,51,303.41	2,33,39,336.00
4) Interest on Saving Bank Accounts	4,24,051.00	4,18,858.00
5) Others		
Total	2,66,45,862.41	2,49,71,542.00
Transferred to Earmarked/Endowment Funds	2,66,45,862.41	2,49,71,542.00
Income Others	Current Year	Previous Year
1) Interest		
a) On Govt. Securities	-	-
b) Other Bonds/Debentures	-	-
2) Income Received		
a) Each Fund separately	-	-
3) Income accrued		
a) Each Fund separately	-	-
4) Others (Specify)		
Total		

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT
SCHEDULE 12- INTEREST EARNED**

(Amount-Rs)

Income Others	Current Year	Current Year	Previous Year
1. On Saving Accounts with Scheduled banks			
Vijaya Bank A/c 01	25,70,649.00		
Vijaya Bank A/c 62	1,92,680.00		
SBI Fee a/c	12,38,950.00	40,02,279.00	29,96,906.00
2. On Loans			
a) Employees/Staff			
Interest on House Building Loan Recovery			-
Interest on Motorcycle Loan Recovery			6,976.00
Interest on Other Advance		12,533.00	16,933.00
b) Others			
3. On Debtors and Other Receivables-			
Rites Gurgaon			-
4. On Term Deposit with Scheduled banks			
Vijaya Bank A/c 01	1,17,81,806.00		
Vijaya Bank A/c 62	20,258.00		
SBI Fee a/c	9,76,09,638.00	10,94,11,702.00	9,72,85,433.00
Total		11,34,26,514.00	10,03,06,248.00

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT
SCHEDULE 13- OTHER INCOME**

(Amount-Rs)

Particulars	Current Year	Previous Year
A. Income from Land & Building		
1. Hostel Room Rent		
Hostel Fan Charges	7,85,250.00	13,45,650.00

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Hostel Fees	4,04,44,000.00	
Hostel Room Rent	18,91,125.00	33,64,125.00
Hostel Utensils	4,42,915.00	8,97,100.00
Hostel & Colony (User Charges)		53,625.00
Shop/Canteen Rent, Electric Charges & Water Charges	13,71,733.00	6,11,470.80
Rent from Staff Quarter	8,35,779.00	13,92,900.00
Building Rent	2,09,805.00	1,71,992.40
Income from Guest House	7,17,703.00	18,87,080.00
2. License fee		
3. Hire Charges of Auditorium/Play ground/Convention Centre, etc		
4. Electricity & water charges		
Building/Hostel Electricity Charges	11,80,124.10	77,59,103.60
Water/Electricity Charges from Contractor & Staff Quarter	24,82,125.00	23,35,499.00
Total	5,03,60,559.10	1,98,18,545.80
B. Sale of Institute's publications	-	-
C. Income from holding events	-	-
1. Gross Receipts from annual function/ sports carnival	-	-
Less: Direct expenditure incurred on the annual function/ sports carnival		
2. Gross Receipts from fetes	-	-
Less: Direct expenditure incurred on the fetes		
3. Gross Receipts for educational tours	-	-
Less: Direct expenditure incurred on the tours		
4. Others (to be specified and separately disclosed)	-	-
Total		
D. Others		
1. Income from consultancy	-	-
2. RTI fees	-	-
3. Income from Royalty	-	-
4. Sale of application form (recruitment)	-	-
5. Misc. receipts (Sale of tender form, waste paper, etc.)	-	-

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6. Profit on Sale/disposal of Assets:		
a) Owned assets	-	-
b) Assets acquired out of grants, or received free of cost	-	-
7. Grants/Donations from institutions, Welfare Bodies and International Organizations		
8. Others		
Computer hiring charges	2,325.00	5,325.00
Computer Stationery Charges	21,47,500.00	28,65,000.00
E-Mail Charges	29,81,144.00	41,33,850.00
Medical Contribution	14,39,950.00	13,77,725.00
Recreation Fees	68,47,000.00	95,85,000.00
Student study tour	23,360.00	33,948.00
Reference material	1,90,000.00	3,75,000.00
Verification of Degree/Migration/Mark sheet	29,44,356.00	18,71,903.00
Alumni Fees	-	8,52,600.00
CMDR	19,575.00	27,300.00
M.Sc Admission		1,00,000.00
Miscellaneous Receipts Institute	10,60,161.39	12,97,674.03
Sale of Tender Form	1,26,117.00	1,71,700.00
Vehicle Charges	12,459.00	65,462.00
Library Misc Receipt	19,649.00	1,09,766.00
Seminar & Conference	1,05,062.00	-
Retention of Service Charges		51,309.00
Leave Salary	3,31,375.00	3,30,682.00
Pension Contribution	11,29,294.00	14,26,525.00
Institute Contribution to CPF Received Back	33,61,630.00	-
Application fees for appointment	-	-
RTI Fees	828.00	720.00
Total	2,27,41,785.39	2,46,81,489.03
Grand Total (A+B+C+D)	7,31,02,344.49	4,45,00,034.83

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT
SCHEDULE 14- PRIOR PERIOD INCOME**

(Amount-Rs)

Particulars	Current Year	Previous Year
1. Academic Receipts		
2. Income from Investments	-	-
3. Interest Earned		
Interest from Rites Ltd		-
4. Other Income		
Other Income		
TEQIP I	-	-
Retirement Benefit Received from Other Institution		-
Total	-	-

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT
SCHEDULE 15 – STAFF PAYMENTS & BENEFITS**

(Amount-Rs)

Particulars	Current Year				Previous Year			
	Non-Recurring (OH-35)	Recurring (OH-31)	Salary (OH-36)	Total	Non-Recurring (OH-35)	Recurring (OH-31)	Salary (OH-36)	Total
a) Salaries and Wages (Refer Annexure H (1))	-	13,60,22,858.00	42,33,49,923.00	55,93,72,781.00	-	14,69,97,535.00	42,51,86,980.00	57,21,84,515.00
b) Allowances and Bonus (Refer Annexure H (2))	-	6,63,981.00	12,11,00,650.00	12,17,64,631.00	-	91,990.00	8,74,26,864.00	8,75,18,854.00
c) Contribution to Provident Fund	-	3,84,400.00		3,84,400.00	-	4,70,730.00		4,70,730.00
d) Contribution to Other Fund (specify)				-				-

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New Pension Scheme	-	3,45,89,832.00		3,45,89,832.00	-	1,94,09,375.00		1,94,09,375.00
e) Staff Welfare Expenses	-		-	-	-		-	-
f) Retirement and Terminal Benefits (Refer Annexure H (3))	-	23,14,04,860.00	-	23,14,04,860.00	-	46,81,01,876.00		46,81,01,876.00
g) LTC facility	-		29,70,152.00	29,70,152.00	-		49,10,933.04	49,10,933.04
h) Medical facility	-		-	-	-		-	-
i) Children Education Allowance	-		54,36,092.00	54,36,092.00	-		40,83,878.00	40,83,878.00
j) Honorarium	-		-	-	-		-	-
k) Others (specify)	-		-	-	-		-	-
Retention of Service Charges			-	-			-	-
Total	-	40,30,65,931.00	55,28,56,817.00	95,59,22,748.00	-	63,50,71,506.00	52,16,08,655.04	1,15,66,80,161.04

SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT

ANNEXURE H OF SCH 15

STAFF PAYMENTS & BENEFITS

H(1). SALARIES AND WAGES

(Amount in Rs.)

Particulars	Expenditure for the year ended on 31/03/2020	Journal Entry Adjustment		Current Year 2019-20	Previous Year 2018-19
		Provision as on 01/04/2019	Provision as on 31/03/2020		
Pay Director & Teaching	33,71,13,449.00	2,59,84,350.00	2,92,83,300.00	34,04,12,399.00	31,27,73,482.00
Pay Administrative Officer	1,39,79,600.00	11,33,500.00	13,08,577.00	1,41,54,677.00	1,47,60,330.00
Pay Other Staff	5,83,00,932.00	50,35,850.00	47,07,166.00	5,79,72,248.00	6,35,51,401.00
Arrear Teaching & Non Teaching	12,02,727.00	1,06,643.00	-	10,96,084.00	2,29,57,384.00
Payment to visiting faculty	97,14,515.00			97,14,515.00	1,11,44,383.00
Pay Contractual Staff	13,53,41,374.00	79,80,560.00	86,62,044.00	13,60,22,858.00	14,69,97,535.00
Total	55,56,52,597.00	4,02,40,903.00	4,39,61,087.00	55,93,72,781.00	57,21,84,515.00

SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT

ANNEXURE H OF SCH 15

STAFF PAYMENTS & BENEFITS

H(2). ALLOWANCES AND BONUS

(Amount in Rs.)

Particulars	Expenditure for the year ended on 31/03/2020	Journal Entry Adjustment		Current Year 2019-20	Previous Year 2018-19
		Provision as on 01/04/2019	Provision as on 31/03/2020		
Teaching Staff :					
Dearness Allowance	5,35,21,093.00	46,77,183.00	49,78,162.00	5,38,22,072.00	2,89,70,492.00
HRA	94,30,939.00	5,90,976.00	9,37,616.00	97,77,579.00	41,92,385.00
Transport Allowances	1,02,06,823.00	7,78,768.00	8,92,944.00	1,03,20,999.00	87,54,709.00
Administrative Officer :					
Dearness Allowance	22,17,832.00	2,04,030.00	2,22,458.00	22,36,260.00	13,34,898.00
HRA	10,52,016.00	80,016.00	96,960.00	10,68,960.00	5,32,392.00
Transport Allowances	6,29,420.00	53,700.00	61,074.00	6,36,794.00	6,54,332.00
Other Staff					
Dearness Allowance	92,10,672.00	9,06,453.00	8,00,148.00	91,04,367.00	5842599.00
HRA	45,40,815.00	3,83,216.00	3,79,926.00	45,37,525.00	2711309.00
Transport Allowances	31,16,680.00	2,77,182.00	2,61,144.00	31,00,642.00	3253992.00
Washing Allowance	- 1,21,140.00	-	-	(1,21,140.00)	74,970.00
Other Allowances					
Bonus	-				-
Special Allowance	8,69,500.00	78,750.00	68,175.00	8,58,925.00	9,12,290.00
Cash Handling Allowance	2,845.00	-	700.00	3,545.00	640.00
Cumulative Professional Development Allowance	57,03,545.00			57,03,545.00	50,38,313.00
Family Planning Incentive	- 53,383.00	8,500.00	-	(61,883.00)	(78,330.00)
Earned Leave Encashment on Salary	19,24,239.00	1,17,787.00	-	18,06,452.00	30,71,771.00
Leave encashment on Retirement	1,64,17,812.00	2,07,100.00	18,43,296.00	1,80,54,008.00	2,19,30,457.00

Deans Honorarium	2,52,000.00	21,000.00	21,000.00	2,52,000.00	2,29,645.00
T.A. on Retirement	6,63,981.00	-		6,63,981.00	91,990.00
Total	11,95,85,689.00	83,84,661.00	1,05,63,603.00	12,17,64,631.00	8,75,18,854.00

SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT

ANNEXURE H OF SCH 15

STAFF PAYMENTS & BENEFITS

H (3). RETIREMENT AND TERMINAL BENEFITS

(Amount in Rs.)

Particulars	Expenditure for the Year Ended on 31/03/2020	Journal Entry Adjustment		Current Year 2019-20	Previous Year 2018-19
		Provision as on 01/04/2019	Provision as on 31/03/2020		
Commutated Value of Pension	2,10,52,885.00	3,73,646.00	30,75,266.00	2,37,54,505.00	5,79,04,837.00
Gratuity	1,90,40,050.00	2,48,520.00	20,00,000.00	2,07,91,530.00	3,05,81,889.00
Medical Allowance (Pensioner)	47,85,000.00	3,91,000.00	3,97,000.00	47,91,000.00	63,54,483.00
Pension Pay	12,41,12,496.00	20,54,31,865.00	23,85,17,310.00	15,71,97,941.00	28,52,18,215.00
Pension Relief	1,99,74,000.00	13,94,868.00	20,24,054.00	2,06,03,186.00	2,99,30,865.00
Arrears of Pension	42,86,976.00	20,278.00	-	42,66,698.00	5,81,11,587.00
Total	19,32,51,407.00	20,78,60,177.00	24,60,13,630.00	23,14,04,860.00	46,81,01,876.00

SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT

SCHEDULE 16 – ACADEMIC EXPENSES

(Amount-Rs)

Particulars	Current year				Previous year			
	Non-Recurring (oh-35)	Recurring (oh-31)	User Expenses	Total	Non-Recurring (oh-35)	Recurring (oh-31)	User Expenses	Total
a) Laboratory expenses				-	-	-	-	-
b) Field work/Participation				-	-	-	-	-
c) Seminar/Workshop				-	-	-	-	-

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d) Payment to visiting faculty				-	-	-	-	-
e) Examination				-	-	-	-	-
f) Student Welfare expenses		25,01,586.00	25,01,586.00	-	-	-	-	-
g) Admission expenses				-				-
MBA Admission		3,73,280.00	3,73,280.00			3,63,415.00	3,63,415.00	
h) Convocation expenses				-				-
Convocation expenses		6,18,913.00	6,18,913.00			-	24,19,989.00	24,19,989.00
i) Publications				-				-
j) Stipend/means-cum-merit scholarship				-				-
Stipend M Tec	9,46,50,238.00		9,46,50,238.00		8,28,13,246.00		8,28,13,246.00	
Stipend Ph.D	11,90,85,667.00		11,90,85,667.00		9,65,43,471.00		9,65,43,471.00	
Merit Scholarship			-		8,61,000.00		8,61,000.00	
k) Subscription Expenses				-				-
l) Others (specify)				-				-
Alumni Expenses				-			-	-
Faculty Recruitment				-		-		-
Refund of Excess Fees		81,73,400.00	81,73,400.00			3,25,84,471.00	3,25,84,471.00	
Student Club/Student Activity Centre		68,26,967.58	68,26,967.58			88,60,232.45	88,60,232.45	
Total	-	21,37,35,905.00	1,84,94,146.58	23,22,30,051.58	-	18,02,17,717.00	4,42,28,107.45	22,44,45,824.45

SCHEDULES FORMING PART OF INCOME AND EXPENDITURE ACCOUNT

SCHEDULE 17 – ADMINISTRATIVE AND GENERAL EXPENSES

(Amount-Rs)

Particulars	Current Year					Previous Year				
	Salary (oh-36)	Non-Recurring (oh-35)	Recurring (oh-31)	User Payment	Total	Salary (oh-36)	Non-Recurring (oh-35)	Recurring (oh-31)	User Payment	Total
A. Infrastructure										-

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a) Electricity and power										-
Colony			19,89,000.00	19,89,000.00				26,46,976.00	26,46,976.00	
Hostel			52,62,505.00	52,62,505.00				1,83,72,957.00	1,83,72,957.00	
Institute			7,60,46,159.00	7,60,46,159.00			5,77,88,442.00		5,77,88,442.00	
b) Water charges				-						-
c) Insurance				-						-
d) Rent, Rates and Taxes (including property tax)				-						-
Rent & Taxes - Hostel and Colony			33,61,932.00	33,61,932.00			2,24,13,587.00		2,24,13,587.00	
Water Tax			50,42,951.00	50,42,951.00			50,42,951.00		50,42,951.00	
B. Communication				-						-
e) Postage & telegram			43,114.00	43,114.00			43,389.00		43,389.00	
f) Telephone and Internet Charges				-						-
Telephone Expenses	12,29,791.00		3,19,318.00	15,49,109.00	22,66,283.00				22,66,283.00	
Rental Charges of Internet Bandwidth (Internet Charges)			33,90,359.00	33,90,359.00			67,18,867.00		67,18,867.00	
C. Others				-						-
g) Printing and Stationary			10,71,849.00	10,71,849.00			13,61,471.00		13,61,471.00	
h) Travelling and Conveyance Expenses			24,30,334.00	24,30,334.00			23,08,635.69		23,08,635.69	
j) Hospitality				-						-
j) Auditors				-						-

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Remuneration									
Audit Fees AGUP			18,88,530.00		18,88,530.00			-	-
Chartered Accountant Fees			2,77,300.00		2,77,300.00			2,32,400.00	2,32,400.00
k) Professional Charges					-				-
l) Advertisement and Publicity					-				-
Advertisement			21,47,812.00		21,47,812.00			12,10,483.00	12,10,483.00
m) Magazines & Journals					-				-
Library & E-Journals		5,02,01,763.00			5,02,01,763.00	-	4,53,60,195.00		4,53,60,195.00
n) Others (specify)					-				-
Legal Expenses			11,75,410.00		11,75,410.00			6,69,274.00	6,69,274.00
Library Operating Cost (incl TLB)			6,20,162.00		6,20,162.00				-
Liveries to Staff			1,75,845.00		1,75,845.00			2,65,490.00	2,65,490.00
M.SC Admission					-				-
Utensil Charges				1,25,412.00	1,25,412.00			75,074.00	75,074.00
Miscellaneous Contingencies			40,13,442.00		40,13,442.00			33,95,540.00	33,95,540.00
Misc. Expenses-hostel			21,64,840.00		21,64,840.00			11,50,974.00	29,710.00
Research Grant					-			-	-
Security Charges			6,30,83,928.00		6,30,83,928.00			4,31,73,564.00	4,31,73,564.00
Recreation Club Teaching & Non Teaching					-			52,500.00	52,500.00
Anti Ragging Squad			41,050.00		41,050.00			3,15,289.00	3,15,289.00
Training for Faculty					-			-	-

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Staff										
Executive Development Centre			9,50,663.00		9,50,663.00			9,49,334.00		9,49,334.00
Medical Reimbursement	45,51,519.00				45,51,519.00	43,58,780.00				43,58,780.00
Medicine including Doctors visit Fees	56,78,625.00				56,78,625.00	30,12,113.00				30,12,113.00
Science City Salary					-				-	-
NIT Transit House Contribution			3,50,000.00		3,50,000.00			2,50,000.00		2,50,000.00
B.O.G & Meetings			14,31,801.00		14,31,801.00			16,97,155.00		16,97,155.00
Seminar&Conference			3,61,470.00		3,61,470.00			1,53,435.00		1,53,435.00
Application fees for appointment				6,73,274.00	6,73,274.00				1,36,000.00	1,36,000.00
CMDR					-					-
GST Paid against bill					-					-
Hostel & Colony (User Charges)				70,039.00	70,039.00					-
Raw Material & Consumable					-				-	-
Campus Interview and Placement				3,75,981.00	3,75,981.00				5,00,072.00	5,00,072.00
NCC/NSS			3,13,340.00		3,13,340.00			3,15,520.00		3,15,520.00
o) Purchase/ Consumables (As per Annexure I)			1,25,67,021.00		1,25,67,021.00			1,32,83,019.00		1,32,83,019.00
Total	1,14,59,935.00	5,02,01,763.00	18,32,68,630.00	84,96,211.00	25,34,26,539.00	96,37,176.00	4,53,60,195.00	16,27,91,319.69	2,17,60,789.00	23,95,49,479.69

SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT

ANNEXURE I OF SCH 17

DOC/CONSUMABLES/ACADEMIC DEPARTMENTS AND CENTERS

(Amount in Rs.)

Particulars	Current Year 2019-20	Previous Year 2018-19
Purchases - Consumables-(U.G.&P.G.)		
Applied Mechanics Department	9,56,728.00	7,75,570.00
Biotech Department	6,79,848.00	9,16,440.00
Campus Interview and Placement		-
Chemistry Department	5,62,034.00	4,77,168.00
Civil Engineering Department	8,28,073.00	9,47,152.00
Computer Science Department	16,02,420.00	11,79,126.00
Electronics and Communication Engineering Department	4,30,026.00	5,73,563.00
Electrical Engineering Department	6,37,624.00	8,24,920.00
GIS Cell	1,66,244.00	4,05,744.00
Humanities Department	5,63,488.00	3,36,907.00
Computer Centre	8,05,632.00	7,17,207.00
Maths Department	6,34,607.00	3,98,112.00
Mechanical Engineering Department	7,63,013.00	12,77,743.00
NCC		
SMS/MBA Operating Cost	13,00,564.00	12,79,695.00
Physics Department	4,25,875.00	3,26,357.00
Training & Placement	4,07,058.00	3,99,703.00
Workshop - Mechanical Department	5,84,109.00	5,25,302.00
Chemical - Engineering Department	5,51,288.00	9,17,000.00
Centre for Interdisciplinary Research	2,75,648.00	2,41,574.00
CMDR	3,37,231.00	2,97,135.00
Library Operating Cost (incl TLB)	55,511.00	4,66,601.00
P G Operating Cost		-
Total	1,25,67,021.00	1,32,83,019.00

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT
SCHEDULE 18 – TRANSPORTATION EXPENSES**

(Amount-Rs)

Particulars	Current Year			Previous Year		
	Non-Recurring (oh-35)	Recurring (oh-31)	Total	Non-Recurring (oh-35)	Recurring (oh-31)	Total
1. Vehicles (owned by educational institution)						
a) Running expenses	-	-	-	-	-	-
b) Maintenance of Vehicle	-	11,04,459.00	11,04,459.00	-	12,77,804.00	12,77,804.00
c) Insurance expenses	-		-	-	-	-
2. Vehicles taken on rent/lease	-	-	-	-	-	-
a) Rent/lease expenses						-
3. Vehicle(Taxi) Hiring Expenses						
Total	-	11,04,459.00	11,04,459.00	-	12,77,804.00	12,77,804.00

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT
SCHEDULE 19 – REPAIRS & MAINTENANCE**

(Amount-Rs)

Particulars	Current Year			Previous Year		
	Non-Recurring (OH-35)	Recurring (OH-31)	Total	Non-Recurring (OH-35)	Recurring (OH-31)	Total
a) Building						
Renovation of Building Structure		3,30,62,756.00	3,30,62,756.00		3,06,56,472.00	3,06,56,472.00
b) Furniture & Fixture			-			-
Maintenance of Furniture			-			-
c) Plant & Machinery			-			-
d) Office Equipments						
Maintenance of Computer & Equipment		39,96,292.00	39,96,292.00		20,00,721.00	20,00,721.00
General Utility Equipment	22,20,804.00		22,20,804.00	27,47,066.00		27,47,066.00
e) Computers			-			-

f) Laboratory & Scientific Equipment			-			-
g) Audio Visual Equipment			-			-
h) Cleaning Material & Services			-			-
i) Book binding charges			-			-
j) Gardening Expenses						
Maintenance Lawns & Gardens		84,598.00	84,598.00		1,27,939.00	1,27,939.00
k) Estate Maintenance			-			-
l) Others (specify)						
Renovation of Electric System & Facilities		72,81,736.00	72,81,736.00		99,79,218.00	99,79,218.00
Total	22,20,804.00	4,44,25,382.00	4,66,46,186.00	27,47,066.00	4,27,64,350.00	4,55,11,416.00

SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT

SCHEDULE 20 – FINANCE COSTS

(Amount-Rs)

Particulars	Current Year				Previous Year			
	Non-Recurring (OH-35)	Recurring (OH-31)	User Expenses	Total	Non-Recurring (OH-35)	Recurring (OH-31)	User Expenses	Total
a) Bank Charges			1,39,031.38	1,39,031.38	-	-	93,920.27	93,920.27
b) Others (Specify)				-	-	-	-	-
Total	-	-	1,39,031.38	1,39,031.38	-	-	93,920.27	93,920.27

SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT

SCHEDULE 21 – OTHER EXPENSES

(Amount-Rs)

Particulars	Current year			Previous year		
	Non-Recurring (oh-35)	Recurring (oh-31)	Total	Non-Recurring (oh-35)	Recurring (oh-31)	Total
a) Provision for Bad and Doubtful Debts/ Advances			-	-	-	-

b) Irrecoverable Balances Written-off			-	-	-	-
c) Grants/Subsidiaries to other institutions/ organisations			-	-	-	-
d) Others (specify)			-		-	-
Govt. Schemes and Programs		13,47,630.00	13,47,630.00		2,59,330.00	2,59,330.00
Total	-	13,47,630.00	13,47,630.00	-	2,59,330.00	2,59,330.00

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT
SCHEDULE 22 – PRIOR PERIOD EXPENSES**

(Amount-Rs)

Particulars	Current Year				Previous Year			
	Non-Recurring (OH-35)	Recurring (OH-31)	User Payment	Total	Non-Recurring (OH-35)	Recurring (OH-31)	User Payment	Total
1) Establishment Expenses								
Cumulative Professional Development Allowance				-				-
2) Academic Expenses				-				-
Alumni Fee				-				-
3) Administrative Expenses				-				-
Income Tax Demand Earlier Years				-				-
4) Transportation Expenses				-				-
5) Repair & Maintenance				-				-
6) Other Expenses				-				-
Excess Interest Reversed			1,14,03,000.00	1,14,03,000.00				
Alumni Fee			8,52,600.00	8,52,600.00				
Advance Adjustment			-	-		1,88,391.00		1,88,391.00
Total	-	-	1,22,55,600.00	1,22,55,600.00	-	1,88,391.00	-	1,88,391.00

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY, ALLAHABAD
SCHEDULE FORMING PART OF THE ACCOUNTS FOR THE YEAR 2019-20
SCHEDULE 23 - SIGNIFICANT ACCOUNTING POLICIES & NOTES TO ACCOUNTS

Accounting Conventions :

The financial statements are prepared on the basis of historical conventions, unless and otherwise stated and on accrual basis of accounting, except receipt of fees from students which is accounted for on cash basis.

Fixed Assets:

Fixed assets are included at cost of acquisition inclusive of inward freight, duties and taxes, incidental and direct expenses related to the acquisition. In respect of projects involving construction, related pre operative expenses form part of the value of assets capitalised.

Fixed assets received by way of non - monetary grants (other than towards the corpus) are capitalised at value stated, by corresponding credit to capital reserve/fund.

Fixed assets acquired by Institute /Project/ Subsidiaries Fund are capitalised and disclosed separately.

Fixed assets are valued at cost less accumulated depreciation.

Intangible Assets:

E-Journals and Computer Software are grouped under Intangible asset

E-Journals are separated from library books in view of the limited benefit that could be derived from the on-line access provided. E-journals are not in a tangible form, but temporarily capitalized and in view of the magnitude of expenditure and the benefits derived in terms of perpetual knowledge acquired by the Academic and Research Staff.

Depreciation:

Depreciation on fixed assets has been charged on Straight Line method at rates as prescribed in the Uniform Accounting Standard for all education institutions under MHRD. Where rates are not prescribed under Uniform Accounting Standard has been derived from Companies Act, 2013. Depreciation is provided for the whole year on additions during the year. Assets are depreciated over the useful life so that residual value does not fall below 5% of the cost except intangible asset i.e. in cases where residual value is 5% or less of the cost, depreciation is not charged over such assets.

Depreciation on fixed assets has been charged to income and expenditure account by corresponding credit to income & expenditure statement from capital fund

Depreciation on fixed assets created out of subsidiary funds are charged by the Institute on Straight Line method at rates as prescribed in the Uniform Accounting Standard for all education institutions under MHRD, in cases where subsidiaries have charged depreciation the same has not been considered.

Subsidiaries

Subsidiary unit accounts are prepared separately, however for overall reporting purpose, it is merged with Main Institute Final Accounts.

Government Grants/ Subsidies:

Government Grants relating to depreciable fixed assets has been taken to Capital Fund account to be recognised in the income and expenditure statement on a

systematic and rational basis over the useful life of the asset.

Government grants and subsidies are accounted on receipt basis and/or where there is a reasonable assurance that the grant will be received. Where a sanction for release of grant pertaining to the financial year is received before 31st March and the grant is actually received in the next financial year, the grant is accounted on accrual basis and an equal amount is shown as recoverable from the Grantor.

Government grants not utilised during the year is shown as unspent balance of funds under current liabilities to be returned / adjusted in the corresponding next year grants to be received.

Government grants excess utilised during the year has been shown as current assets with corresponding credit to income & expenditure account, to be recoverable / adjusted from the corresponding next year grant to be received.

Advances given out of Grant for Capital and Revenue purposes are taken as Grant utilised only when such advance is capitalised or expenditure has been booked.

Retirement Benefits:

Pension, Gratuity and Leave Encashment payable on death / retirement of employees for the year 2019-20 is based on actuarial valuation.

Current Assets , Loans and Advances:

In the opinion of management the current assets, loans and advances have a value on realisation in the ordinary course of business, equal at least to the aggregate amount shown in the balance sheet.

Earmarked/Endowment Funds:

Long Term Funds are earmarked for specific purposes. Each of the funds has a separate bank account. Those with large balances also have investments in Term Deposits with banks. The income from investments are credited to the respective funds. The expenditure and advances are debited to the fund.

Taxation:

Institute being autonomous body exempt from income tax u/s 10(23C)(iiiab) of the Income Tax Act, 1961, hence no provision for income tax has been made.

Corresponding figure of the previous year have been rearranged/ regrouped wherever necessary.

Figures in brackets () represents (-) negative figures.

Notes to Accounts:

Financial Statements from the year 2014-2015 is prepared on the basis of New Format of Accounts for CEI's as provided by MHRD-GOI. Necessary annexures/ groupings to the schedules has been added in order to give a clear understanding of financial statements. Necessary changes in the schedules / groupings as compared to previous year has been made in order to implement New Format of Accounts

During the year amount of Rs. 40,02,98,458.00/- has been transferred from Capital Fund of the Institute to Corpus Fund separately maintained alongwith corresponding Investment in FDR and Accrued Interest as on 31.03.2020 in terms of 52 FC-52.06

Amount of Rs 70,81,35,802.37 is transferred to bank account of corpus related to FY 2018-19 due to which amount of FDR has been received back from Corpus and corresponding entries has been duly made.

Repayment of loan granted by HEFA is met by IRG receipts and accordingly the said repayment is taken as utilisation out of IRG receipts. Institute will capitalised assets (financed by HEFA) at the time of completion of these assets and accordingly utilisation in the year of completion will be net of HEFA loan.

Interest on loan from HEFA is met by corresponding grant (OH-31) received from MHRD for such purpose.

Excess of Income over Expenditure of subsidiaries is being shown separately under the Fund Account of subsidiaries w.e.f year 2006-07. Excess of Income over Expenditure Account of subsidiaries before 2006-07 has been shown under the fund account of institute.

During the year Alumni Association has been delinked from consolidated accounts as it has been decided that Alumni Association is a separate entity which is having its own PAN and constitution.

Amount received directly in bank through RTGS/NEFT for which source / head of account could not be ascertained has been transferred to Miscellaneous Receipt Transfer account- Liability.

Assets created out of Projects account where ownership has been transferred to institute has been taken as asset of institute . Assets where ownership has not been transferred to institute has been shown under project fixed assets as the ownership of the assets is with the sponsor and corresponding balance is taken in subsidiary fund account (Project Fund)

Foreign Currency Earnings and Outgo during the year 2019-20 is :-

Earnings:Nil

Outgo: USD 4,19,840.12/-, GBP 48,754.25/- and Euro 73,428.20/-

Caution Money received by the Institute has been considered as current liability being repayable on demand

During the year Pensionary Benefits of Employees as per Actuarial Valuation Report amounting to Rs. 22,81,72,784/- has been provided for.

Income and Expense related to previous years where ever occurred due to reconciliation of entries has been taken to Prior Period Income/Expense. During the year amount of Rs. 1,14,03,000/= has been recorded towards interest on FDR excess booked as income in earlier now rectified.

Cancelled cheque amounting to Rs. 1,69,78,126/= reflected under Annexure B(6) of Sch. 3 is subject to reconciliation

Advance for fixed assets and revenue expenses at Schedule G(iii) are subject to reconciliation and confirmation.

Year end balance of Stores & Spares, Loose Tools, Publication, Lab Chemicals, Consumables and Glass ware, Building or Electrical Material, Stationery, etc are taken as stock only if the same is significant w.r.t. total expenditure incurred else it is considered as an expense in the year of purchase.

Subsidiary account of Nodal Centre has been closed hence not incorporated during the year, however closing entries in institute books is to be passed.

Interest accrued and TDS deducted thereon for subsidiaries has been taken to the extent such informations are made available and provided by the subsidiaries.

SCHEDULE FORMING PART OF THE ACCOUNTS FOR THE YEAR 2019-2020

SCHEDULE 24 - CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS

CONTINGENT LIABILITIES

As on 31.03.2020 Court Cases filed against the Institution, by former/ present employees, tenants and contractors and arbitration cases with contractors, were pending for decisions. The suits filed by employees were establishment -related viz promotions, increments, pay scales, termination etc. The quantum of the claims is not ascertainable. The claim in the suits and arbitration cases by contractors amounted to Rs. 4,73,44,381/- + Interest.

Letters of credit established by the Bank on behalf of the Institution and outstanding on 31.03.2020 - Nil

SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT

ANNEXURE (i) OF SCH 1 (A-1)

INCOME FROM SUBSIDIARY FUNDS

(Amount in Rs.)

Particulars	Current Year 2019-20		Previous Year 2018-19
1) Interest Received			
a) On Term Deposits with Scheduled Banks:			
Alumni Association			10,51,803.00
Dean Academic Affairs- Autosweep	13,15,209.00		5,083.00
G. K. Agarwal Trust	20,288.00		17,497.00
Industrial Estate	20,28,069.00		22,11,449.00
Project Account	67,67,214.00		69,86,256.00
Research & Consultancy Cell	71,71,500.00		66,51,813.00
SNFCE	13,23,936.00		12,76,875.00
Sponsored Gold Medal	12,792.00		1,99,473.00
Student Welfare Fund	12,95,756.00		13,20,505.51
TEQIP - II	1,05,375.00	2,00,40,139.00	
b) On Savings Account with Scheduled Bank:			
Alumni Association			41,235.00
Dean Academic Affairs	47,999.00		5,69,459.00
G. K. Agarwal Trust	1,619.00		1,100.00
Industrial Estate	57,545.00		3,35,272.00
P.D.T.C.	8,035.00		7,407.00
Project Account	1,44,246.00		1,02,607.00
Research & Consultancy Cell	43,685.00		10,32,892.00
SNFCE	1,02,209.00		1,67,453.00
Sponsored Gold Medal	14,765.00		1,921.00
Student Welfare Fund	5,218.00		3,519.00

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TEQIP - II	13,716.00		50,885.00
Text Book Lending Bank	22,701.00	4,61,738.00	20,699.00
2) Revenue Income:			
Alumni Association			30,20,244.87
Dean Academic Affairs	11,29,904.00		6,05,19,457.40
G. K. Agarwal Trust	6,04,847.00		
Industrial Estate	8,41,463.00		-
Project Account	41,58,130.00		11,06,476.00
Research & Consultancy Cell	1,10,45,404.00		1,20,62,569.00
SNFCE	-		-
Student Welfare Fund	1,51,37,457.00		24,51,208.00
TEQIP II	3,80,81,950.00		-
TEQIP II- Prior Period			1,46,184.00
Text Book Lending Bank	18,996.00		15,395.00
Sponsored Gold Medal	14,37,151.00	7,24,55,302.00	-
Total		9,29,57,179.00	10,13,76,737.78

SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT

ANNEXURE (ii) OF SCH 1 (A-1)

EXPENDITURE OF SUBSIDIARIES

(Amount in Rs.)

Particulars	Current Year 2019-20	Previous Year 2018-19
Alumni Association	-	38,08,688.90
Dean Academic Affairs	1,07,74,003.50	90,08,112.12
G. K. Agrawal Trust	70.80	25.00
Industrial Estate	12,94,626.50	12,58,974.00
Project Account	15,47,802.00	86,562.35
Research & Consultancy Cell	27,43,217.00	28,74,229.34
Research & Consultancy Cell- Prior Period	-	1,82,78,242.39
School of Non Formal Continuing Education	11,32,204.00	7,91,038.00

Sponsor Gold Medal	3,76,451.80	71,115.00
Student Welfare Fund	15,13,168.00	10,39,694.00
TEQIP - II	2,00,22,335.50	23,65,798.70
Text Book Lending Bank	11,319.00	7,056.00
Total	3,94,15,198.10	3,95,89,535.80

SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT

ANNEXURE (iii) OF SCH 1 (A-1)

DEPRECIATION OF SUBSIDIARIES

(Amount in Rs.)

Particulars	Current Year 2019-20	Previous Year 2018-19
Alumni Association	-	1,02,198.00
Dean Academic Affairs	1,12,921.00	1,01,699.00
Industrial Estate	3,62,470.00	11,674.00
Nodal Centre (NTMIS)	17,477.00	21,741.00
Project Account	61,81,101.00	60,12,748.00
Research & Consultancy Cell	26,29,177.00	33,53,695.00
School of Non Formal Continuing Education	4,968.00	4,968.00
Student Welfare Fund	1,04,074.00	1,04,074.00
TEQIP - II	47,92,838.00	34,27,972.00
Total	1,42,05,026.00	1,31,40,769.00

RECEIPT & PAYMENT ACCOUNT FOR THE YEAR ENDING 31ST MARCH, 2020

(Amount in Rs.)

Receipts	Current Year		Previous Year	
I. Opening Balance:				
Cash in Hand		15,865.00		7,470.00
Bank Account:				
State Bank of India - Power Jyoti	0.67		11,711.71	
State Bank of India - New Fees Account	56,65,17,565.24	56,65,17,565.91	46,50,07,327.96	46,50,19,039.67

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Savings Account & Autosweep:				
Vijaya Bank		53,46,42,931.06		22,89,34,514.78
In Fixed Deposits with Banks:				
Institute				
State Bank of India	22,96,53,757.00		86,48,49,276.00	
Caution Money				
State Bank of India	17,27,804.00		17,27,804.00	
Vijaya Bank	85,00,000.00	23,98,81,561.00	85,00,000.00	87,50,77,080.00
Earmarked and Endowment Fund:				
Contributory Provident Fund:				
Contributory Provident Fund (SB)	53,180.12		22,94,273.12	
Contributory Provident Fund FDR	1,31,53,229.00		1,43,89,470.00	
General Provident Fund:				
General Provident Fund - with Treasury	10,07,349.00		10,07,349.00	
General Provident Fund - with Vijaya Bank (FDR)	26,81,26,553.00		24,89,28,729.00	
General Provident Fund - with Vijaya Bank (SB)	63,511.00		1,69,26,626.00	
Corpus Fund				
Corpus Fund-with (SBI-SB)	4,93,72,957.00		1,02,43,024.00	
Corpus Fund-with (SBI-FDR)	83,96,54,692.00		16,46,79,553.00	
Development/Renewal Fund				
Development/Renewal Fund (SBI-SB)	4,01,880.00		3,39,383.00	
Development/Renewal Fund (SBI-FDR)	6,31,835.00		6,31,835.00	
Maintenance Fund				
Maintenance Fund (SBI-SB)	4,01,326.00		3,38,860.00	
Maintenance Fund (SBI-TDR)	6,31,835.00		6,31,835.00	
Staff Development Fund				
Staff Development Fund (SBI-SB)	4,18,314.00		3,54,915.00	
Staff Development Fund (SBI-TDR)	13,78,551.00		13,78,551.00	
New Pension Scheme:				
Vijaya Bank Saving Account	73,55,844.00		1,24,70,777.00	

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Vijaya Bank Autosweep FDR	-	1,18,26,51,056.12	-	47,46,15,180.12
In Subsidiary Funds:				
Admission Committee	7,04,312.00		7,04,312.00	
Alumni Association				
Savings Account	64,23,120.34		68,16,543.37	
Fixed Deposits	1,10,41,505.00		1,05,41,505.00	
Dean Academic Affairs	6,99,56,014.08		1,89,27,319.20	
G. K. Agarwal Trust :				
Savings Account:	3,07,778.00		2,89,206.00	
Fixed Deposits	3,00,000.00		3,00,000.00	
Industrial Estate				
Current Account	1,26,96,474.51		1,13,35,054.51	
Fixed Deposits	2,85,25,216.00		3,32,88,877.00	
Kitchen Project	6,272.00		6,272.00	
Nodal Centre	82,770.00		82,770.00	
P.D.T.C.	2,16,274.00		2,08,867.00	
Project Account				
Savings & Auto Sweep Account	9,23,45,321.73		9,24,61,079.08	
Fixed Deposits	3,31,90,469.00		3,15,00,998.00	
Research & Consultancy Cell :				
Savings & Auto Sweep Account	2,96,69,330.58		3,53,11,138.92	
Fixed Deposits	8,48,22,302.00		8,00,96,566.00	
School of Non Formal Continuing Education :				
Current Account	52,02,017.00		45,46,927.00	
Fixed Deposits	1,98,02,189.00		1,98,02,189.00	
Sponsored Gold Medal				
Savings Account	3,84,980.00		2,54,701.00	
Fixed Deposits	3,88,488.00		3,88,488.00	
Student Welfare Fund :				
Savings Account	83,88,546.51		52,27,308.00	

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Fixed Deposits	2,05,82,050.00		2,05,82,050.00	
TEQIP - II			23,03,369.70	
Savings Account	20,640.00			
Fixed Deposits	1,14,000.00			
Text Book Lending Bank	6,09,916.00	42,57,79,985.75	5,80,878.00	37,55,56,418.78
II. Grant Received:				
a) From Government of India				
Non Plan (Recurring) Grant	32,64,97,000.00		45,03,00,000.00	
Plan (Non Recurring) Grant	14,97,00,000.00		5,64,00,000.00	
Plan (Non Recurring) Grant	72,96,01,000.00	1,20,57,98,000.00	1,13,61,00,000.00	1,64,28,00,000.00
III. Academic Receipts:				
Tuition Fees:				
Tuition Fees B.Tech	16,93,88,650.34		18,22,97,190.00	
Tuition Fees MBA	17,84,500.00		18,00,000.00	
Tuition Fees MCA	1,25,40,000.00		1,30,13,000.00	
Tuition Fees M.Tech	4,89,16,700.00		4,73,90,000.00	
Tuition Fees Ph.D	87,75,000.00		60,28,625.00	
Tuition Fees M.Sc.	5,22,050.00		4,80,000.00	
Tuition Fees DASA	8,66,65,368.00		10,26,66,400.00	
Registration fee:				
Registration Fees M.Tech	62,700.00		1,35,400.00	
Registration Fees MBA	7,600.00		15,000.00	
Registration Fees MCA	29,700.00		51,100.00	
Registration Fees PhD	1,01,500.00		80,300.00	
Registration Fees MSC	3,600.00		6,400.00	
Registration Fees B.Tech	4,58,400.00		6,70,300.00	
Day Fees B.Tech	7,19,400.00		10,05,450.00	
Day Fees M.Tech	1,09,725.00		2,46,950.00	
Day Fees MBA	13,300.00		26,250.00	
Day Fees MCA	51,975.00		89,425.00	

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Day Fees Ph.D	1,52,250.00		1,20,450.00	
Day Fees MSC	5,400.00		9,600.00	
M. Tech/Ph.D Admission	43,82,000.00		34,01,600.00	
Enrolment Fee	4,457.00		32,29,200.00	
Library Admission fee	17,11,750.00		23,96,250.00	
Laboratory fee:				
Lab Fees B.Tech	11,99,000.00		16,75,750.00	
Lab Fees M.Tech	1,56,750.00		3,38,500.00	
Lab Fees MBA	19,000.00		37,500.00	
Lab Fees MCA	74,250.00		1,27,750.00	
Lab Fees Ph.D	2,53,750.00		2,00,750.00	
Lab Fees MSC	9,000.00		16,000.00	
Others Fees				
Syllabus fee	2,62,800.00		3,94,800.00	
Annual Examination fee				
Identity card fee	78,075.00		1,04,300.00	
Medical fee	17,11,750.00		23,96,250.00	
Transportation fee:				
Bus Charges from Student	6,33,950.00		9,18,415.00	
Institute Fees	3,37,00,000.00			
Development Fees	7,36,500.00		12,33,000.00	
Magazine Fees	6,24,900.00		6,39,100.00	
Placement Charges	16,22,200.00		26,56,675.00	
Student Welfare Fees	20,62,300.00		4,62,000.00	
Student Activity Fees	33,02,000.00		-	
User Charges Fees	1,83,17,500.00		-	
NRI- Other Fees	36,30,837.00	40,48,00,587.34	77,90,369.46	38,41,50,049.46
IV. Receipts Against Earmarked/ Endowment Funds				
Contributory Provident Fund:				
Subscription	8,31,739.00		10,58,582.00	

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General Provident Fund:				
Subscription	4,29,44,865.00		4,02,09,657.00	
New Pension Scheme				
Subscription and Loan Recovery	5,77,07,257.00		4,26,28,414.00	
Corpus Fund				
Contribution from Tequip II and R & C	-		3,83,45,067.00	
Development/Renewal Fund				
Contribution from Tequip II	-		45,067.00	
Maintenance Fund				
Contribution from Tequip II	-		45,067.00	
Staff Development Fund				
Contribution from Tequip II	-	10,14,83,861.00	45,067.00	12,23,76,921.00
V. Receipts Against Sponsored Fellowships and Scholarship:				
Institute				
QIP Stipend & Contingency	-		1,65,041.00	
Outside Scholarship	44,26,512.00		67,81,275.00	
U.G.C. Fellowship	51,342.00		20,000.00	
AICT Fellowship	1,17,666.00		-	
CSIR Delhi	3,05,475.00		7,56,000.00	
Fellowship CSIR	-		16,767.00	
ICSR Project	-		10,000.00	
Subsidiaries				
Project Account :				
Project (Running)	5,08,18,958.00		4,94,16,837.00	
Project (Deffered Grant)	57,94,403.00		54,62,224.00	
R&C Cell (Deffered Grant)	6,65,869.00	6,21,80,225.00	5,27,080.00	6,31,55,224.00
VI. Income on Investment From				
a) Earmarked/ Endowment Fund:				
Contributory Provident Fund:				
Interest on Contributory Provident Fund	14,20,321.00		5,28,901.57	

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General Provident Fund:				
Interest on General Provident Fund	1,70,99,948.00		1,52,23,037.00	
Corpus Fund				
Revenue Income	1,51,40,526.00		8,52,050.00	
Development/Renewal Fund				
Revenue Income	96,541.00		18,994.00	
Maintenance Fund				
Revenue Income	96,502.00		18,960.00	
Staff Development Fund				
Revenue Income	1,86,221.00		20,000.00	
New Pension Scheme				
Interest on Autosweep	2,41,972.00		5,16,312.00	
Interest on Saving Bank	22,486.00		15,571.00	
Subsidiary Funds				
Alumni Association	-		30,20,244.87	
Dean Academics	11,29,904.00		6,05,19,457.40	
G. K. Agrawal Trust	6,04,847.00			
Industrial Estate	8,41,463.00		-	
Project Account	41,58,130.00		11,06,476.00	
Research & Consultancy Cell	1,10,45,404.00		1,20,62,569.00	
SNFCE	-		-	
Student Welfare Fund	1,51,37,457.00		24,51,208.00	
TEQUIP	3,76,48,614.00		-	
TEQUIP II- Prior Period	-		1,46,184.00	
Sponsored Gold Medal	14,37,151.00			
Text Book Lending Bank	18,996.00	10,63,26,483.00	15,395.00	9,65,15,359.84
VII. Interest Received on:				
Term Deposits:				
Main Institute	9,95,54,816.00		9,41,89,450.00	
Subsidiary Funds:				

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Alumni Association	-		10,51,803.00	
Dean Academics	13,15,209.00		5,083.00	
G. K. Agarwal Trust	20,288.00		17,497.00	
Industrial Estate	14,31,015.00		21,73,460.00	
Project Account	67,67,214.00		69,86,256.00	
Research & Consultancy Cell	71,71,500.00		66,51,813.00	
School of Non Formal Continuing Education	13,23,936.00		12,76,875.00	
Sponsored Gold Medal	12,792.00		1,99,473.00	
Student Welfare Fund	12,95,756.00		13,20,505.51	
TEQIP - II	1,05,375.00			
Savings Bank & Autosweep Accounts:				
Main Institute	40,02,279.00		29,96,906.00	
Subsidiary Funds:				
Alumni Association	-		41,235.00	
Dean Academic Affairs	47,999.00		5,69,459.00	
G. K. Agarwal Trust	1,619.00		1,100.00	
Industrial Estate	57,545.00		3,35,272.00	
P.D.T.C.	8,035.00		7,407.00	
Project Account	1,44,246.00		1,02,607.00	
Research & Consultancy Cell	43,685.00		10,32,892.00	
School of Non Formal Continuing Education	1,02,209.00		1,67,453.00	
Sponsored Gold Medal	14,765.00		1,921.00	
Student Welfare Fund	5,218.00		3,519.00	
TEQIP - II	13,716.00		50,885.00	
Text Book Lending Bank	22,701.00		20,699.00	
On loan to Employees:				
Interest on House Building Loan Recovery	-		-	
Interest on Motorcycle Loan Recovery	-		6,976.00	
Interest on Other Advance	12,533.00	12,34,74,451.00	16,933.00	11,92,27,479.51
VIII. Investment Encashed				

IX. Other Income(Including Prior Period Income)			
1. Hostel Room Rent			
Hostel Fan Charges	7,85,250.00		13,45,650.00
Hostel Fees	4,04,44,000.00		
Hostel Room Rent	18,91,125.00		33,64,125.00
Hostel Utensils	4,42,915.00		8,97,100.00
Hostel & Colony (User Charges)	-		53,625.00
Shop/Canteen Rent & Electric Charges	13,71,733.00		6,11,470.80
Rent from Staff Quarter	8,35,779.00		13,92,900.00
Building Rent	2,09,805.00		1,71,992.40
Income from Guest House	7,17,703.00		18,87,080.00
2. Electricity & water charges			
Hostel Electricity Charges	11,80,124.10		77,59,103.60
Water/Electricity Charges from Contractor & Staff	24,82,125.00		23,35,499.00
3. Others			
Computer hiring charges	2,325.00		5,325.00
Computer Stationery Charges	21,47,500.00		28,65,000.00
E-Mail Charges	29,81,144.00		41,33,850.00
Medical Contribution	14,39,950.00		13,77,725.00
Recreation Fees	68,47,000.00		95,85,000.00
Student study tour	23,360.00		33,948.00
Reference material	1,90,000.00		3,75,000.00
Verification of Degree/Migration/Mark sheet	29,44,356.00		18,71,903.00
Alumni Fees	-		8,52,600.00
CMDR	19,575.00		27,300.00
M.Sc Admission	-		1,00,000.00
Miscellaneous Receipts Institute	10,60,161.39		12,97,674.03
Sale of Tender Form	1,26,117.00		1,71,700.00
Vehicle Charges	12,459.00		65,462.00
Library Misc Receipt	19,649.00		1,09,766.00

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Seminar & Conference	1,05,062.00		-	
Retention of Service Charges	-		51,309.00	
Leave Salary	3,31,375.00		3,30,682.00	
Pension Contribution	11,29,294.00		14,26,525.00	
Institute Contribution to CPF	33,61,630.00			
Application fees for appointment	-			
RTI Fees	828.00		720.00	
NIMCET	-	7,31,02,344.49	-	4,45,00,034.83
TEQUIP I		-		
X. Deposits and Advances				
Advance adjustment to Staff	80,65,566.00		1,50,73,843.00	
Advance adjustment to Imprest	1,86,489.00		2,54,543.00	
Advance adjustment to Parties	33,27,30,370.00		21,02,98,811.35	
Institute-LC Debit on account R&C Cell	-		61,02,585.00	
TEQUIP III	82,72,963.00		75,00,000.00	
Recovered From SBI	-		-	
Subsidiary-				
Subsidiary- Alumni Association - Advance & Imprest			2,44,487.00	
Subsidiary-Project Account - Advance & Imprest	10,89,467.00		10,92,278.00	
R&C Cell - Advances & Imprest	26,19,720.00		24,69,674.00	
R&C Cell - Receivable from Project Account	-		11,87,999.00	
Project Account - Advance for Plant and Machinery	6,61,273.00		42,07,214.00	
Industrial Estate-Advance for Imprest	-		4,500.00	
Industrial Estate - Service Tax Receivable from Shed Owners	2,11,410.00			
TEQUIP II- Advances Recoverable	-		-	
Recoverable Deposit- Institute- G.I. for Students	14,75,616.00		13,07,688.00	
Recoverable Deposit- Institute-Group Insurance Scheme	13,13,943.00	35,66,26,817.00	12,85,845.00	25,10,29,467.35
XI. Miscellaneous Receipts Including Statutory Receipts				
Income Tax	10,57,29,271.00		8,47,16,684.00	
Sales Tax	88,407.00		-	

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GST Payable	-		9,626.00	
GST ITC	67,58,884.00		19,58,441.00	
GST RCM	7,71,345.00			
Employees contribution to C.P.F	8,07,760.00		9,76,160.00	
Employees contribution to N.P.S	6,26,70,624.00		3,73,99,430.00	
GPF- contribution to employees	3,85,70,799.00		3,97,02,943.00	
Subsidiaries				
Project Account - Income Tax	3,63,328.00		3,94,692.00	
Project Account - GST	69,230.00		6,193.00	
R&C Cell - Income Tax	45,39,265.00		57,94,654.00	
R&C Cell - Service Tax	-		-	
R&C Cell - GST	90,96,762.00		97,46,633.00	
Industrial Estate- GST	1,44,394.00		2,41,007.00	
SNFCE - Income Tax	79,690.00	22,96,89,759.00	40,826.00	18,09,87,289.00
XII. Any Other Receipts				
Loan Account of PDTC & Industrial Estate	-		-	
HEFA Loan	40,04,45,574.00			
HEFA Loan Interest	92,75,883.00		-	
NIMCET	1,38,520.00		-	
Tequip II Stipend	-		-	
Cancelled Cheques	15,72,544.00		54,13,647.00	
DST New Delhi	4,48,018.00		11,13,132.00	
Examination Fees	1,42,10,100.00		1,31,73,000.00	
L.I.C.	3,24,591.00		3,67,695.00	
Diety Programme	-		94,01,989.00	
Other Liabilities (Misc. Receipt Transfer)	2,47,18,657.42		1,41,81,879.05	
Retirement Benefit Received From Other Institution	-		-	
Caution Money	88,87,500.00		31,44,000.00	
Earnest Money/ Security Money	1,29,56,142.00		23,37,935.00	
Project Account Dean R & C	15,00,000.00		-	

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Gain Project	43,35,397.00		24,48,000.00	
Stipend TEQUIP II (R&C)	-		-	
Sipee 17	-		-	
Library Security Money	-		6,00,000.00	
Prime Minister/Chief Minister Relief Fund			3,05,818.00	
SBI Loan Recovery	96,000.00		96,000.00	
Alumni Fees Liability	27,68,500.00			
Swayam	-		14,70,000.00	
Atal Programme	3,24,000.00			
Claims Receivable TDS 16-17	22,450.00			
Union Donation			87,500.00	
Subsidiaries				
Alumni Association - Amount Payable	-		-	
Dean Academics - Cancelled Cheques	12,000.00		-	
Industrial Estate - Expenses Payable	11,210.00		10,620.00	
Project Account - Accounting Charges Payable	20,000.00		20,000.00	
R&C Cell - Expenses Payable	1,36,960.00		20,05,236.00	
R&C Cell - Excess Testing Received	6,817.00		-	
Project Fund A/c				
Project Account - MNNIT	11,96,108.00		-	
Project Account - Transfer to R&C Cell	5,22,572.00		8,73,536.00	
SNFCE- Cancelled Cheque	-		1,800.00	
TEQIP III- Expenses Payable	4,33,336.00			
R&C Cell -Unclaimed Deposits	-		27,01,398.00	
TEQIP III - Loan from Institute	55,00,000.00			
R&C Cell - Testing & Consultancy (Pending)	4,89,55,129.00	53,88,18,008.42	5,36,81,287.00	11,34,34,472.05
Total		6,15,17,89,501.09		5,43,73,86,000.39

Motilal Nehru National Institute of Technology Allahabad [MNNIT Allahabad]

Payments	Current Year		Previous Year	
I. Expenses				
a) Establishment Expenses				
a) Salaries and Wages (Refer Annexure H (1))	55,56,52,597.00		56,67,96,070.00	
b) Allowances and Bonus (Refer Annexure H (2))	11,95,85,689.00		8,21,05,300.00	
c) Contribution to Provident Fund	4,03,880.00		4,88,080.00	
d) Contribution to Other Fund (specify)				
New Pension Scheme	3,33,16,838.00		1,86,93,724.00	
e) Retirement and Terminal Benefits (Refer Annexure H (3))	19,32,51,407.00		26,93,02,793.00	
Retirement Leave Encashment Payable			-	
f) LTC facility	29,70,152.00		49,10,933.04	
g) Children Education Allowance	54,36,092.00		40,83,878.00	
h) Retention of Service Charges	-		-	
h) Telephone Expense	10,26,285.00	91,16,42,940.00	25,34,015.00	94,89,14,793.04
b) Academic Expenses				
Admission expenses				
MBA Admission	3,73,280.00		3,63,415.00	
Convocation expenses				
Convocation expenses	6,18,913.00		24,19,989.00	
Stipend/means-cum-merit scholarship				
Stipend M Tech	9,46,50,238.00		8,28,13,246.00	
Stipend Ph.D.	11,90,85,667.00		9,65,43,471.00	
Scholarship	-		8,61,000.00	
Student Welfare expenses	25,01,586.00			
Others (specify)				
Faculty Recruitment	-		-	
Alumini Expenses	-		-	
Refund of Excess Fees	81,73,400.00		3,25,84,471.00	
Student Club/Student Activity Centre	68,26,967.58	23,22,30,051.58	88,60,232.45	22,44,45,824.45

c) Administrative Expenses			
Infrastructure			
Electricity and power			
Colony	18,36,000.00		29,36,061.00
Hostel	39,66,406.00		2,01,07,472.00
Institute	7,50,36,727.00		5,73,34,517.00
Rent, Rates and Taxes (including property tax)			
Rent & Taxes - Hostel and Colony	33,61,932.00		2,24,13,587.00
Water Tax	50,42,951.00		50,42,951.00
Communication			
Postage & telegram	43,114.00		43,389.00
Telephone and Internet Charges	3,19,318.00		-
Rental Charges of Internet Bandwidth (Internet Charges)	33,90,359.00		67,18,867.00
Others			
Printing and Stationary	10,71,849.00		13,61,471.00
Travelling and Conveyance Expenses	24,30,334.00		23,08,635.69
Auditors Remuneration			
Audit Fees AGUP	18,88,530.00		-
Chartered Accountant Fees	2,77,300.00		2,12,400.00
Advertisement and Publicity			
Advertisement UG	21,47,812.00		12,10,483.00
Magazines & Journals			
Library & E-Journals	5,02,01,763.00		4,53,60,195.00
Others (specify)			
Legal Expenses	11,75,410.00		6,69,274.00
Library Operating Cost	6,20,162.00		-
Liveries to Staff	1,75,845.00		2,65,490.00
Msc. Admission	-		-
Utensil Charges - Revenue	1,25,412.00		75,074.00
Miscellaneous Contingencies	40,13,442.00		33,95,540.00

Motilal Nehru National Institute of Technology Allahabad [MNNIT Allahabad]

Misc. Expenses	21,64,840.00		11,80,684.00	
Research Grant	-		-	
Security Charges	6,20,24,481.00		4,35,92,312.00	
Recreation Club Teaching & Non Teaching	-		52,500.00	
Anti Ragging Squad	41,050.00		3,15,289.00	
Training for Faculty Staff	-		-	
Executive Development Centre	9,50,663.00		9,49,334.00	
Medical Reimbursement	45,51,519.00		43,58,780.00	
Medicine including Doctors visit Fees	56,78,625.00		30,12,113.00	
NIT Transit House Contribution	3,50,000.00		2,50,000.00	
B.O.G & Meetings	14,31,801.00		16,97,155.00	
Seminar & Conference	3,61,470.00		1,53,435.00	
Application fees for appointment	6,73,274.00		1,36,000.00	
CMDR	-		-	
GST paid against bill	-		-	
Hostel & Colony (User Charges)	70,039.00		-	
Raw Material Consumables	-		-	
NCC/NSS	3,13,340.00		3,15,520.00	
Campus Interview and Placement	3,75,981.00		5,00,072.00	
Purchase/Consumables (As per Annexure I)	1,25,67,021.00	24,86,78,770.00	1,32,83,019.00	23,92,51,619.69
d) Transportation Expenses				
Vehicles (owned by educational institution)	-		-	
Repairs & maintenance		11,04,459.00		12,77,804.00
e) Repairs & Maintenance				
Building				
Renovation of Building Structure	3,30,62,756.00		3,06,56,472.00	
Office Equipments				
Maintenance of Computer & Equipment	39,96,292.00		20,00,721.00	
General Utility Equipment	22,20,804.00		11,97,836.00	
Maintenance Lawns & Gardens	84,598.00		1,27,939.00	

Motilal Nehru National Institute of Technology Allahabad [MNNIT Allahabad]

Others (specify)				
Renovation of Electric System & Facilities	72,81,736.00		99,79,218.00	
Start-up (Govt Policies)	13,47,630.00	4,79,93,816.00	2,59,330.00	4,42,21,516.00
f) Prior Period Expenses				
CPDA	-		-	
Advance Adjustment	-		1,88,391.00	
Other Expense	-	-	-	1,88,391.00
II. Payments Against Earmarked/Endowment Funds				
General Provident Fund:				
Payment to Subscribers and Bank Charges	4,17,16,279.00		5,30,97,985.00	
New Pension Scheme:				
Payment to NSDL and Bank Charges	5,83,96,017.70		4,82,75,230.00	
Contributory Provident Fund				
Prior Period				
Payment to NSDL and Bank Charges	68,41,779.00		50,64,817.57	
Subsidiary Funds-Expenditure				
Alumni Association	-		38,08,688.90	
Dean Academic Affairs	1,07,74,003.50		90,08,112.12	
G K Agrawal Trust	70.80		25.00	
Industrial Estate	12,94,626.50		12,58,974.00	
Project Account	15,47,802.00		86,562.35	
Research & Consultancy Cell	27,43,217.00		28,74,229.34	
Research & Consultancy Cell- Prior Period	-		1,82,78,242.39	
School of Non Formal Continuing Education	11,32,204.00		7,91,038.00	
Sponsor Gold Medal	3,76,451.80		71,115.00	
Student Welfare Fund	15,13,168.00		10,39,694.00	
TEQIP - II	2,00,22,335.50		23,65,798.70	
Text Book Lending Bank	11,319.00	14,63,69,273.80	7,056.00	14,60,27,568.37
III. Payments Against Sponsored Projects/Schemes				
IV. Payments Against Sponsored Fellowships/Scholarships				

Motilal Nehru National Institute of Technology Allahabad [MNNIT Allahabad]

Institute				
UGC Fellowship	-		-	
CSIR Delhi	1,21,761.00		5,22,580.00	
Outside Scholarship	40,82,412.00		56,92,206.00	
Subsidiaries				
Project Account :				
Project (Running)	5,03,14,523.00		4,74,67,623.00	
	-	5,45,18,696.00	3,71,081.00	5,40,53,490.00
V. Investments and Deposits Made				
VI. Term Deposits with Scheduled Banks				
VII. Expenditure of Fixed Assets and Capital Work In Progress				
a) Fixed Assets				
1. Land	-		-	
2. Buildings	45,78,271.00		5,75,65,504.00	
3.Plant, machinery and equipment	1,44,38,791.00		64,54,165.00	
4. Vehicles	40,87,379.00		-	
5. Furniture and fixtures	65,58,026.39		74,63,158.00	
6. Office equipment	1,82,47,577.00		-	
7. Computer peripherals	99,21,639.36		40,07,897.00	
8. Electric installations	84,17,141.00		73,26,923.00	
9. Library books	89,352.00		38,01,666.00	
10. Tube wells and water supply	-		-	
11. Other fixed assets	6,16,754.00		1,03,757.00	
b) Intangible Asset				
12. Computer Software	4,66,518.00		8,85,000.00	
13. E-Journals	1,25,23,580.00		1,33,24,339.00	
c) Capital Work in Progress	33,27,30,370.00	41,26,75,398.75	15,03,92,073.35	25,13,24,482.35
VIII. Other Payments Including Statutory Payments				
Income Tax	9,60,12,396.00		8,47,11,684.00	
Sales Tax	-		-	

Motilal Nehru National Institute of Technology Allahabad [MNNIT Allahabad]

GST Patable	3,359.00		22,166.00	
GST ITC	67,28,476.00		19,58,440.00	
GST RCM	7,71,345.00		-	
Employees contribution to C.P.F	8,07,760.00		9,76,160.00	
Employees contribution to N.P.S	6,26,70,624.00		3,73,99,430.00	
GPF- contribution to employees	3,85,10,799.00		3,97,62,943.00	
Subsidiaries				
Project Account - Income Tax	3,63,328.00		4,92,788.00	
Project Account - GST	69,230.00		6,193.00	
R&C Cell - Income Tax	45,39,265.00		81,68,854.00	
R&C Cell - Service Tax	-		-	
R&C Cell - GST	1,03,47,827.00		84,08,461.00	
Industrial Estate - GST	1,61,359.00		2,40,984.00	
SNFCE - Income Tax	79,690.00		40,826.00	
Dean Academic Affairs - Income Tax		22,10,65,458.00		18,21,88,929.00
IX. Refund of Grant				
X. Deposits and Advances				
Advance given to Staff	82,13,007.00		1,07,54,514.73	
Imprest given to Staff	2,47,436.00		2,65,000.00	
Advance given to Parties	58,75,59,198.00		13,94,32,337.00	
Institute-LC Debit on account of Project	11,96,108.00			
TEQUIP III	55,00,000.00		1,05,09,936.00	
Project Account - Advance for Plant and Machinery	15,00,000.00		27,614.00	
Recovery against Debts Outstanding of Industrial Estate	(9,32,019.00)		(11,21,271.60)	
Industrial Estate-Advance for Imprest	-		4,500.00	
Tax Deducted at Source	1,10,21,985.00		82,87,138.00	
GST TDS- R&C Cell	47,568.00		84,000.00	
Prepaid Expense	-		-	
Subsidiary				
Subsidiary-Allumani Association Advance & Imprest	-		2,81,000.00	

Motilal Nehru National Institute of Technology Allahabad [MNNIT Allahabad]

Subsidiary-Dean Academics - Advances	-	-	-
Subsidiary-Project Account - Advance & Imprest	20,47,813.00		11,62,622.00
R&C Cell - Advances & Imprest	30,28,515.00		31,52,754.00
R&C Cell - Receivable from Project Account	5,22,572.00		8,73,536.00
R&C Cell - TEQUIP III	-		-
SNFCE Advance & Imprest	-		-
Industrial Estate- Service Tax under Appeal	-		-
TEQUIP - Advances Recoverable	99,88,420.00		65,00,000.00
Recoverable Deposit- Institute- G.I. for Students	11,84,340.00		10,72,450.00
Recoverable Deposit- Institute-Group Insurance Scheme	12,77,533.00		13,58,168.00
Recoverable Deposit- Institute-Security & Earnest Money		63,24,02,476.00	18,26,44,298.13
XI. Other Payments			
Bank Charges	1,39,031.38		93,920.27
TEQUIP I Fund	-		-
NIMSET Scheme	-		-
ICCCT Seed	-		-
Cancelled Cheques	3,93,826.00		59,69,714.00
DST New Delhi	7,15,517.00		10,97,831.00
Examination Fees	2,70,49,900.00		5,94,75,068.00
Project Account	15,09,372.00		17,05,682.00
Gian Project	39,14,398.50		73,34,863.64
L.I.C.	3,24,591.00		3,67,695.00
Other Liabilities (Misc. Receipt Transfer)	1,67,09,153.00		1,28,37,036.00
Diety Programme	-		94,01,989.00
Caution Money	31,14,500.00		26,52,000.00
Earnest Money/ Security Money	43,38,880.00		5,28,944.00
Stipend TEQUIP II (R&C)	-		-
Prime Minister/Chief Minister Relief Fund			3,05,818.00
Library Security Money	10,000.00		
SBI Loan Recovery	96,000.00		96,000.00

Motilal Nehru National Institute of Technology Allahabad [MNNIT Allahabad]

Alumni Fees Liability	36,60,600.00			
Swayam	10,48,123.00		2,61,865.00	
Atal Programme	3,36,640.00			
Union Donation			87,500.00	
HEFA Loan	10,48,32,120.00		4,25,00,000.00	
HEFA Loan Interest Repayment	92,75,883.00			
Account separated from main institute				
Alumni Association - Bank	64,23,120.34		-	
Alumni Association - FDR	1,10,41,505.00		-	
Alumni Association - Fixed Assets	7,57,996.25		-	
Subsidiaries				
Dean Academics- Cancelled Cheques	-		-	
Industrial Estate- Expenses Payable	10,620.00		9,440.00	
Industrial Estate- Service Tax Paid	6,75,360.00			
Project Account - Accounting Charges Payable	20,000.00		20,000.00	
R&C Cell - Expenses Payable	1,00,558.00		19,54,730.00	
R&C Cell - Transfer to Corpus Fund			1,50,21,757.61	
Project Account - Transfer to Corpus Fund	-		50,00,000.00	
Project Account - MNNIT	-		70,03,974.00	
Project Account - Transfer to R&C Cell	-		11,87,999.00	
Project Account - Gyan	-		1,77,000.00	
TEQIP II- Expense Payable	-		-	
R&C Cell - Workshop Participation Fee	-		-	
TEQIP III - Loan from Institute	53,46,595.00		-	
R&C Cell - Testing & Consultancy	3,05,08,867.00	23,23,53,156.47	3,82,67,493.00	21,33,58,319.52
XII. Closing Balance:				
Cash in Hand		6,400.00		15,865.00
Bank Account:				
State Bank of India - Power Jyoti	0.41		0.67	
State Bank of India - New Fees Account (with Autosweep)	11,53,19,618.76	11,53,19,619.17	56,65,17,565.24	56,65,17,565.91

Motilal Nehru National Institute of Technology Allahabad [MNNIT Allahabad]

Savings Account & Autosweep:				
Vijaya Bank-01	12,53,60,613.70		53,46,42,931.06	
Vijaya Bank-02	11,61,41,920.89	24,15,02,534.59	-	53,46,42,931.06
In Fixed Deposits with Banks:				
Institute				
State Bank of India	57,01,33,992.00		22,96,53,757.00	
Caution Money				
State Bank of India	17,27,804.00		17,27,804.00	
Vijaya Bank	85,00,000.00	58,03,61,796.00	85,00,000.00	23,98,81,561.00
Earmarked and Endowment Fund:				
Contributory Provident Fund:				
Contributory Provident Fund (SB)	1,13,413.12		53,180.12	
Contributory Provident Fund FDR	85,03,277.00		1,31,53,229.00	
General Provident Fund:				
General Provident Fund - with Treasury	10,07,349.00		10,07,349.00	
General Provident Fund - with Vijaya Bank (FDR)	28,35,77,631.00		26,81,26,553.00	
General Provident Fund - with Vijaya Bank (SB)	29,40,967.00		63,511.00	
Corpus Fund				
Corpus Fund-with (SBI-SB)	75,84,14,051.00		4,93,72,957.00	
Corpus Fund-with (SBI-FDR)	55,84,81,753.00		83,96,54,692.00	
Development/Renewal Fund				
Development/Renewal Fund (SBI-SB)	4,23,042.00		4,01,880.00	
Development/Renewal Fund (SBI-FDR)	7,06,706.00		6,31,835.00	
Maintenance Fund				
Maintenance Fund (SBI-SB)	4,22,449.00		4,01,326.00	
Maintenance Fund (SBI-TDR)	7,06,706.00		6,31,835.00	
Staff Development Fund				
Staff Development Fund (SBI-SB)	4,40,574.00		4,18,314.00	
Staff Development Fund (SBI-TDR)	15,41,909.00		13,78,551.00	
New Pension Scheme:				

Motilal Nehru National Institute of Technology Allahabad [MNNIT Allahabad]

Vijaya Bank Saving Account	69,31,541.30	1,62,42,11,368.42	73,55,844.00	1,18,26,51,056.12
In Subsidiary Funds:				
Admission Committee	7,04,312.00		7,04,312.00	
Alumni Association				
Savings Account	-		64,23,120.34	
Fixed Deposits	-		1,10,41,505.00	
Dean Academic Affairs	6,11,16,035.58		6,99,56,014.08	
G. K. Agarwal Trust :				
Savings Account:	9,34,461.20		3,07,778.00	
Fixed Deposits	3,00,000.00		3,00,000.00	
Industrial Estate				
Current Account	39,42,626.01		1,26,96,474.51	
Fixed Deposits	2,85,25,216.00		2,85,25,216.00	
Kitchen Project	6,272.00		6,272.00	
Nodal Centre	82,770.00		82,770.00	
P.D.T.C.	2,24,309.00		2,16,274.00	
Project Account				
Savings & Auto Sweep Account	10,02,59,396.73		9,23,45,321.73	
Fixed Deposits	3,52,24,224.00		3,31,90,469.00	
Research & Consultancy Cell :				
Savings & Auto Sweep Account	5,59,77,820.58		2,96,69,330.58	
Fixed Deposits	9,00,91,287.00		8,48,22,302.00	
School of Non Formal Continuing Education :				
Current Account	14,95,958.00		52,02,017.00	
Fixed Deposits	2,38,02,189.00		1,98,02,189.00	
Sponsored Gold Medal				
Savings Account	14,73,236.20		3,84,980.00	
Fixed Deposits	3,88,488.00		3,88,488.00	
Student Welfare Fund :				
Savings Account	2,33,13,809.51		83,88,546.51	

Motilal Nehru National Institute of Technology Allahabad [MNNIT Allahabad]

Fixed Deposits	2,05,82,050.00		2,05,82,050.00	
TEQUIP - II				
Savings Account	1,54,532.50		20,640.00	
Fixed Deposits	1,14,000.00		1,14,000.00	
Text Book Lending Bank	6,40,294.00	44,93,53,287.31	6,09,916.00	42,57,79,985.75
Total		6,15,17,89,501.09		5,43,73,86,000.39

DY. REGISTRAR (A/CS)

REGISTRAR

ANNEXURES

Annexure-1	NIT Council
Annexure-2	Board of Governors
Annexure-3	Finance Committee
Annexure-4	Building and Works Committee
Annexure-5	Senate
Annexure-6	Activities Organized Under SAC
Annexure-7	Placement Details
Annexure-8	Details of Externally Funded Research Project
Annexure-9	Testing and Consultancy

COUNCIL OF NATIONAL INSTITUTE OF TECHNOLOGY (NIT COUNCIL)

The Council shall consist of the following members, namely:-

- (a) the Minister in charge of the Ministry or Department of the Central Government having administrative control of the technical education, *ex officio*, as Chairman;
- (b) the Secretary to the Government of India in charge of the Ministry or Department of the Central Government having administrative control of the technical education, *ex officio* as Vice-Chairman;
- (c) the Chairperson of every Board, *ex officio*;
- (d) the Director of every Institute, *ex officio*;
- (e) the Chairman, University Grants Commission, *ex officio*;
- (f) the Director General, Council of Scientific and Industrial Research, *ex officio*;
- (g) four Secretaries to the Government of India, to represent the Ministries or Department of the Central Government dealing with biotechnology, atomic energy, information technology and space, *ex officio*;
- (h) the Chairman, All India Council for Technical Education, *ex officio*;
- (i) not less than three, but not more than five persons to be nominated by the Visitor, at least one of whom shall be a woman, having special knowledge or practical experience in respect of education, industry, science or technology;
- (j) three members of Parliament, of whom two shall be chosen by the House of the People and one by the Council of States:

Provided that the office of member of the Council shall not disqualify its holder for being chosen as or for being, a member of either House of Parliament;
- (k) two Secretaries to the State Government, from amongst the Ministries or Departments of that Government dealing with technical education where the Institutes are located, *ex officio*;
- (l) Financial Advisor, dealing with the Human Resource Development Ministry or Department of the Central Government, *ex officio*;
- (m) one officer not below the rank of Joint Secretary to the Government of India in the Ministry or Department of Central Government having administrative control of the Technical Education, *ex officio*, as Member-Secretary.

BOARD OF GOVERNORS

The Board of Governors of the Institute consists of the following members:

- | | |
|---|-------------|
| (i) The Chairperson to be nominated by the Visitor | Chairperson |
| (ii) The Director, ex-officio; | Member |
| (iii) Two persons not below the rank of the Joint Secretary to the Government of India to be nominated by the Central Government from amongst persons dealing with technical education and finance; | Member |
| (iv) Two persons to be nominated by the Government of the State in which the Institute is situated, from amongst persons, who in the opinion of that Government, are technologists or industrialists of repute; | Member |
| (v) Two persons, at least one of whom shall be a woman, having special knowledge or practical experience in respect of education, engineering or science to be nominated by the Council; and | Member |
| (vi) One professor and one assistant professor or a lecturer of the Institute to be nominated by the Senate. | Member |
| (vii) Registrar | Secretary |

FINANCE COMMITTEE

The Finance Committee consists of the following persons:

- | | |
|---|-------------------------------|
| (i) The Chairperson Board of Governor | Chairman (Ex-Officio) |
| (ii) The Director | Member (Ex-Officio) |
| (iii) Joint Secretary dealing with National Institutes of Technology or his nominee and Financial Advisor (Human Resource Development) or his nominee members | Members |
| (iv) Two persons nominated by the Board from amongst its members | Members |
| (v) The Registrar | Member Secretary (Ex-Officio) |

(Provided that in addition to the above, the Chairman may, in consultation with the Director, co-opt a member as and when found necessary)

BUILDING AND WORKS COMMITTEE

The Building and Works Committee Consists of the following persons:

- | | | |
|-------|--|----------------------------------|
| (i) | The Director of the Institute | Chairman (Ex-Officio) |
| (ii) | One member nominated by the Central Government not below the rank of Director or Deputy Secretary | Member |
| (iii) | One member nominated by the Board of Governors | Member |
| (iv) | Registrar | Member Secretary
(Ex-Officio) |
| (v) | Dean, Planning and Development or similar position | Member |
| (vi) | One expert each from Civil and Electrical Engineering Wing of the Central or State Government or any autonomous body of repute | Member |

SENATE

The Senate of the Institute consists of the following persons:

- | | | |
|-------|---|-----------------------|
| (i) | The Director of the Institute | Chairman (Ex-Officio) |
| (ii) | The Deputy Director | Member (Ex-Officio) |
| (iii) | The professors appointed or recognized as such by the Institute for the purpose of imparting instructions in the Institute | Member |
| (iv) | Three persons, one of whom shall be a woman, not being employees of the Institute, to be nominated by the Chairperson in consultation with the Director, from amongst educationists of repute, one each from the field of science, engineering and humanities | Member |
| (v) | Such other members of the staff as may be laid down in the Statutes | Member |
| (vi) | Registrar | Secretary |

ACTIVITIES ORGANIZED UNDER STUDENT ACTIVITY CENTRE

Following events have been organized during the period **April, 2019 to March, 2020** by the SAC, MNNIT Allahabad.

S. No.	Name of the Festivals/Events	Events Date
1.	Independence Day Quiz	August 15, 2019
2.	International Yoga Day	August 24, 2019 to 13 Sept. 2019
3.	Fit India (MHRD)	August 29, 2019
4.	Spic Macay	September 04, 2019
5.	Personality Development workshop	06-08 September, 2019
6.	Avishkar (Annual Technical Festival)	21-24 September, 2019
7.	Vigilances Awareness Week	October 30, 2019
8.	Run for Unity (MHRD)	October 31, 2019
9.	National Education Day	November 11, 2019
10.	Constitution Day	November 26, 2019
11.	Matdata Divas (Voters Day)	January 25, 2020
12.	Josh & J.Lal (Annual Sports Festival)	January 20, 2020 to February 05, 2020
13.	Eloquence (Annual Literary festival)	February 6-8, 2020
14.	Prosang -2019 (Student Technical Club)	February 22-23, 2020

The Personality Development Workshop was marked by the motivational speech by the Prof. Saurabh Srivastava.

The annual techno-management festival Avishkar 2019 witnessed the participation of the following personalities in GnoTalks

- (i) Padma Bhushan Prabhu Chawla (Editorial Director of the New India Express)
- (ii) Mr. Sanjeeva Kumar Singh
- (iii) Mr. Abhayanand (He is also the Co-Founder of super 30 with the goal to aid talented children from poor families)
- (iv) Mr. Shivankit Singh Parihar
- (v) Subedar Major Yogendra Singh Yadav PVC (Youngest recipient of the Param Vir Chakra- India's Highest wartime gallantry award.)
- (vi) Padma Shri Dr. Paul Thaliath (Padma Shri Awardee for carrying out cancer awareness campaigns.)
- (vii) Mr. Shivam Patel (An Internationally recognized sand artist and speed painter.)
- (viii) Mr. Jasmeet Singh Bhatia.

The Annual Sports (Josh & J. Lal Tournament) was successfully organized from January 20 to February 05, 2020 in the institute.

Annual Literary Festival Eloquence - 2020 was organized during February 06 -08, 2020, with an aim to bring about personality and communications skills development of the participating students, along with the creation of a learning and atmosphere of literary art. The event also witnessed the presence of Prof. Pinaki Majumdar Director of The Mehta Research Institute of Mathematics & Mathematical Physics Prayagraj delivered a motivational talk in the event.

MNNIT Allahabad Prayagraj organized the two days technical summit cum workshop named PROSANG-2020, dated February 22-23, 2020, mainly intended to showcase the project work undertaken all-round by the technical club of Institute viz., Aeromodelling Club, Robotics Club, Energy Club, Computer Club, Electronics Society, SAE Club & Mechanical Society. Fulfilling its duty of being an Institute of National Importance, the students of robotics

club have organized basic robotics workshop joined by 200+ students from about a dozen schools from Prayagraj & Pratapgarh. In addition, 30+ school teachers have also joined for basic robotics training.

The institute has always provided students the right platform to showcase their talents and bring achievement to the institute by participating in various inter institute events. The students participated in the following events:

- (i) Sports Festival “All India Inter NIT Sport Meet-2019” at NIT Silchar: October 11-13, 2019.
- (ii) Cultural Festival “Antaragni-2019” at IIT Kanpur: October 17-20, 2019.
- (iii) Sports Festival “Spardha-2019” at IIT BHU: October 17-20, 2019.
- (iv) Technical Festival “National Student’s Space Challenge, a Competition” at IIT Kharagpur : October 31 to November 04, 2019
- (v) All India Inter NIT Staff & Faculty T.T, Badminton, Chess Tournament-2019 December 18-20, 2019 at Jaipur.
- (vi) All India Inter NIT “Faculty & Staff Cricket Tournament-2019” at VNIT Nagpur: December 27-30, 2019.
- (vii) Sports Festival “All India Inter NIT Sport Meet-2020” at NIT Suratkal: January 14-22, 2020.
- (viii) Cultural Festival “SPRING FEST-2020” at IIT Kharagpur: January 21-28, 2020
- (ix) Sports Festival MNNIT Athletic Team participate in NIT Rourkela: January 24-26, 2020.
- (x) Annual Sports Festival “ASMITA-2020 at IIIT, ALLAHABAD: February 14-16, 2020.
- (xi) Sports Festival “All India Inter NIT Sports Meet-2020” at SVNIT Surat : February 19-24, 2020.

Following are the brief achievement of the students in the various inter-institute events attended

Sl. No.	Event	Performance
1.	All India Inter NIT Sports Meet NIT Silchar (October 11-13, 2019)	MNNIT Boys Table- Tennis Team received Championship Nitesh Sharma Parth Nakhale Shivam Sharma Saatvik Trivedi Championship
2.	Sports Festival “Spardha-2019” at IIT BHU: October 17-20, 2019.	Boy’s Athletics Team <ol style="list-style-type: none"> 1. Chandan Jyoti Morang 100M Silver 2. Sumit Kumar 110m Hurdles Bronze 3. Aman Verma 800m Silver 4. Akash Singh, Anil Singh Bhadoriya 1500m Silver 5. Aman Verma 1500m BRONZE 6. Akash Singh, Anil Singh Bhadoriya 5000m Silver 7. Chandan Jyoti Morang Long Jump Gold 8. Ajay Yadav Long Jump Silver 9. Ajay Yadav Triple Jump Gold 10. Amit Kumar Javelin 5th Position 11. Shikhar Taori High Jump Silver 12. Sachin Kumar Hammer 4th Position 13. Sumit Kumar 400m Hurdles 4th Position 14. Ajay Yadav, Saurabh, Chandan Jyoti Morang, Soma Arun 4x100m Bronze Girls Athletics Team <ol style="list-style-type: none"> 1. Sakshi Dubey 800m 4th Position 2. Ankita 400m Bronze 3. Ankita, Isha Yadav, Saranya Satyavolu, Tanya Rastogi 4x100 Gold

4. Sakshi Dubey , Tanya Rastogi, Saranya Satyavolu, Ankita 4x400m Silver

Martial Arts Team

1. Natasha Tomar Below 40 Kg Bronze
2. Soni Dhiman 46Kg- 49 Kg Bronze
3. Prateek Rana Below 54 Kg Bronze
4. Rahul Pabri 58Kg- 63 Kg Silver

Achievement of Carom (Boys)

Gokul Kaushik and Sunil Nayak (Doubles with Rules Secured Silver Medal)

Achievement of HOCKEY (Boys)

Award of Honor – Fair Play Award

3. All India Inter NIT “Faculty & Staff Cricket Tournament-2019” at VNIT Nagpur: December 27-30, 2019. MNNIT Faculty Team reached to Semifinal and stood to 4th position
4. Cultural Festival “Spring Fest” IIT Kharagpur (January 21-28, 2020) A contingent of 120 students from seven different cultural and literary committees participated in various events in IIT Kharagpur's annual cultural fest Springfest 2020.

Following are the achievements:

1. **Springfest Championship:** Out of the 100+ colleges that participated in Springfest 2020, MNNIT Allahabad won the title of Springfest Champions by bagging the maximum number of prizes among all colleges in Springfest 2020. We successfully managed to defend our title of champions 2 times in a row now.
2. **Picture Tale:** In this event participants had to depict a story through their photos. The Media House of MNNIT took part in this event and Pratik Chandra Singh (20165106) bagged the 2nd prize.
3. **Impromptu:** Out of over 50 students participating in the event, Ms. Apoorva Awasthy 20182028, a student of the MNNIT Literary Club won the First Prize.
4. **JAM:** The following students bagged prizes in this event:
 - (i) Chirag Thakur 20174090 (3rd position)
 - (ii) Vishnu Batla 20194006 (1st position)
5. **India Calling:** The following students stood 1st in this literary event:
 - (i) Amisha Agarwal 20175043
 - (ii) Apoorva Awasthy 20182028
6. **DumbC:** A team of the following 3 members stood 1st in this event.
 - (i) Rishabh Jain 20168069

- (ii) Shiladitya Ganguly 20165027
 - (iii) Shivam Kapoor 20164014
7. **Chef's Corner:** Sneha Singh 20198023 bagged the 3rd prize in this culinary event.
8. **Rangamanch (Stage Play):** A team of the following students from the Alchemy - The Dramatics Club of MNNIT successfully cleared the elimination round and got selected in the top 5 plays from over 30+ stage plays after putting up a magnificent production titled- "Kafan".In the finals they stood fifth and received the jury award as a special mention for outstanding portrayal of Indian classical play.
- 1. Rishav Kumar 20161072
 - 2. Amit Kumar 20172059
 - 3. Shashwat Alok Shukla 20172052
 - 4. Satya Shree Samataroy 20175015
 - 5. Aditya Anand 20178037
 - 6. Himanshu Chaurasia 20170032
 - 7. Tanam Gupta 20182039
 - 8. Naman Goel 20182079
 - 9. Akhat Pareek 20181037
 - 10. Sonal Dev 20184022
 - 11. Suhrita Ghosh 20185103
 - 12. Khushboo Baby Naz 20194091
 - 13. Subhanshi Sai Priya 20192062
 - 14. Preksha Grover 20194097
 - 15. Stuti Jain 20198008
 - 16. Yashendu Paresh Pandey 20194197
 - 17. Pradeep Gaur 20193102
9. **Centrifuge (Group Dance):** A team of the following students participated in the group dance event and secured the 7th position
- 1. Manas Sharma 20179005
 - 2. Utkarsh Singh 20174127
 - 3. Sargam Tamang 20174117
 - 4. Nikhil Pakhariya 20178085
 - 5. Aman Jaiswal 20174154
 - 6. Mahima Saha 20188113
 - 7. Bintee 20180007
 - 8. Alex Roy 20183100
 - 9. Neel Jaideep Pandit 20184132
 - 10. Sumit Dungdung 20188027
 - 11. Mayank Upadhyay 20189014
 - 12. Sakshi Gupta 20184062
 - 13. Shruti Subhash Nair 20188077
 - 14. Ritesh Tirkey 20183030
 - 15. Aslesha Bhandari 20185109
 - 16. Vishakha Rathore 20184035
 - 17. Sonal Prasad 20195048

18. Merin Thomas 20195048
19. Shivangi Swami 20190001
20. Joy Basumta 20195054
21. Vishwajeet Kumar 20198053
22. Surbhi Mayank 20184061
23. Kalantri Dhanraj 20194163
24. Subhanshu Sonkar 20191041

10. Rangoli Making: A team of 3 students bagged 3rd position in this event, where 25+ teams took part.

1. Manasi Agarwal 20184134
2. Priyam Basumata 20175056
3. Vivechana Gupta 20180043

5. Sports Festival MNNIT Athletic Team participate in NIT Rourkela: January 24-26, 2020

1. Ankita Verma(800m and 400m) GOLD
2. Alankriti Dubey (3000m) SILVER
3. Shreya Yadav (Hammer) GOLD
4. Saranya , Satyavolu, Isha Yadav, Ankita Verma, Shakhi Dubey (4x400) BRONZE
5. Saranya , Satyavolu, Tanya Rastogi, Isha Yadav, Ankita Verma (4x100) GOLD
6. Amit Kumar (Javelin)BRONZE
7. Arjun (Hammer) BRONZE
8. Sachin Kumar (Hammer) GOLD
9. Kollad Pava N Rohit (High Jump) BRONZE
10. Soma Arun Chandan, J. Morang, Aman Verma, Bhaddriya (4x400 m Relay) 3:44.1sec

6. Annual Sports Festival "ASMITA-2020 at IIIT, Allahabad: February 14-16, 2020.

Cricket and T.T Girls Team won Championship Badminton (Boys) Runner

Power Lifting

1. Raunak Bhatia 85 Kg above –GOLD
2. Kishore Kumar 85 Kg above – SILVER
3. Sachin Kumar Singh 77-85Kg – BRONGE

Swimming

1. Menda Meena Ketan 25m Butterfly – GOLD
2. Menda Meena Ketan 200m Freestyle – GOLD
3. Menda Meena Ketan 25m breast – SILVER

Carrom Team

1. Korra Suman Carrom (Singles)- SILVER

Athletics

1. Sumit Kumar 100m – GOLD
2. Adarsh Sharma 100m- SILVER
3. Sumit Kumar 110Hurdles- GOLD
4. Aman Verma 800m – GOLD
5. Aman Kumar1500m – GOLD

Award of Honour: Parth Ganjoo (Cricket) Player of the Tournament

7. Sports Festival “All India Inter NIT Cricket Tournament - 2020” at SVNIT Surat : February 19-24, 2020. **MNNIT Cricket Team won by 4 wickets**
Most wickets: Parth Ganjoo
Most Runs: Naman Singh
Best Fielder: Abhinav Mittal

ANNEXURE-7

PLACEMENT DETAILS

For B. Tech. Courses

Course	Branch	Eligible Students	Opted out of placements	Students Appeared for Placements	Students Placed	Percentage Placed
B. Tech	Biotechnology	25	4	21	13	61.9
	Civil	87	9	78	25	32.05
	Chemical	33	1	32	26	81.25
	Computer Science	174	6	168	163	97.02
	Electrical	73	5	68	46	67.64
	Electronics & Communication	149	18	131	118	90.07
	Mechanical	129	8	121	70	57.85
	Production & Industrial	24	3	21	16	76.19
	Information Technology	95	2	93	91	97.84
Total		789	56	733	568	77.48

For Master Courses

Course	Eligible Students	Opted out of placements	Students Appeared for Placements	Student Placed	Percentage Placed
M. Tech.	327	4	323	101	31.26
MCA	83	0	83	66	79.51
M.Sc.	11	0	11	3	27.27
MBA	39	1	38	26	68.42
Total	460	05	455	196	43.07

Year-wise Placement details of B. Tech. Students

Department	2019-20		2018-19		2017-18	
	Eligible	Placed	Eligible	Placed	Eligible	Placed
Biotechnology	21	13	26	20	34	19
Chemical	32	26	41	41	33	28
Civil	78	25	67	47	58	41
Computer Science	168	162	167	163	164	160
Electronics & Communication	131	116	66	64	144	129
Electrical	68	46	128	116	71	65
Information Technology	93	91	90	86	92	85
Mechanical	121	66	110	103	124	108
Production & Industrial	21	16	31	31	25	21
Total	733	568	726	671	745	656

ANNEXURE-8

1) Details of Externally Funded Research Project (UPTO 31.03.2020)

Sl. No	Principal Investigator/ Co-investigator	Project Title	Funding Agency	Sanctioned Amount (Rs.)
1.	Prof. R.C. Vaishya CED	Air Quality Monitoring Project	Uttar Pradesh Pollution Control Board (Lucknow)	7,40,400 Per year
2.	Dr. N. R. Rawal CED	Ambient Air Quality Monitoring and Noise Monitoring at three locations in Allahabad City	UPPCB, Lucknow	10,56,000 Per year
3.	Dr. Shivesh Sharma BT	Design and Innovation Centre	MHRD, New Delhi	1,00,00,000
4.	Dr. R. S. Yadav CSED	Information Security Education & Awareness (ISEA) Project-Phase-II	DeitY, New Delhi	48,18,000
5.	Dr. Vijaya Bhaduarua ECED	Special Manpower Development Programme - Clip to System Design (S M D P -C2SD)	MCIT/Deity, New Delhi	99,72,000
6.	Dr. D. K. Yadav CSED	Visvesvaraya PhD Scheme for Electronics & IT	MCIT/Deity, New Delhi	8,44,83,600
7.	Dr. R. P. Tewrai AMD	Modeling, Simulation and Development of Smart Active Ankle Foot Orthotic Device for Gait Rehabilitation	DBT, New Delhi	17,83,000
8.	Dr. Manoj Kumar Mathematics	Numerical Algorithms based on Neural Network for the solution of boundary value problems	NBHM, Mumbai	13,64,600
9.	Dr. Pramod Kumar Yadav, Mathematics	Hydrodynamics modeling of Complex porous membranes and their applications in engineering sciences	SERB, New Delhi	8,08,500
10.	Dr. Basant Kumar ECED	Design of Neural Network based Pacemaker	DBT, New Delhi	14,93,000
11.	Dr. Naresh Kumar Physics	Development of Ferrite- Semiconductor Composites Hollow Nanospheres Based Sensors for Enhanced Bio and Gas Sensing Performances	CSIR, New Delhi	20,00,200
12.	Dr. Manisha Sachan Biotechnology	Identification of Novel Epigenetic Biomarkers Next Generation Sequencing Technologies towards Developing a Multiplex Methylight Assay for early diagnosis of Epithelial ovarian cancer	ICMR, New Delhi	29,61,860
13.	Dr. K. N. Pandey	Life Prediction of Turbine Blades Under Coated and Uncoated Conditions (GTMAP)	AR & DB, New Delhi	24,33,000
14.	Dr. Sameer Srivastava DBT	Biosynthesis of Isoprene, and industrially important hydrocarbon, using e.coli as Model Organism	DBT, New Delhi	48,12,993
15.	Dr. Manoj Kumar,	Numerical Studies of effects on	DBT,	21,73,200

	Math. Deptt.	human-heart due to growing blockage in coronary artery	New Delhi	
16.	Dr. Yogendra Kumar Prajapati	Role of Graphene and MoS ₂ on Performance of Surface Plasmon Resonance Based Sensors: An Application to Bio Sensing	DAE, BRNS Mumbai	20,21,900
17.	Dr. Manoj Kumar Gupta, Mechanical Engineering	Green Composite Prepared by Waste Sugarcane Bagasses and Poly Lactic Acid (PLA) for Packaging Application	CST UP	10,44,000
18.	Dr. Ramji Dwivedi, GIS	Multi-Temporal Interferometric Sar (MT-InSAR) Studies for near real-time landslide monitoring	ISRO, Bangalore	45,43,000
19.	Dr. Ram Prakash Tiwari	Dam Rehabilitation and Improvement Project of Central Water Commission (CWC)	Central Water Commission (CWC), New Delhi	4,61,00,000
20.	Head ECED	DST-Fund for Improvement in S&T Infrastructure (FIST 2016).	DST, New Delhi	1,15,00,000
21.	Dr. Sushil Kumar Chemical Engineering	Bioremediation for removal of reactive dyes from industrial waste water	UPCST	10,44,000
22.	Dr. Vasu B. Mathematics	Mathematical Simulations of Nano-articles as Drug Carrier on Blood Flow through a Stenotic Artery	SERB, New Delhi	22,80,520
23.	Dr. Ajay Bharti AMD	Improvement of Mechanical Properties due to Friction Stir Processing (FSP) and Addition of Hard Phase Particle	Shashi Associates Pune	1,00,000
24.	Dr. V. S. Tripathi	Design and development of a patch antenna based non-invasive blood sugar monitoring system	CST UP	8,94,000
25.	Head Biotechnology	FIST Program DST	DST, New Delhi	83,00,000
26.	Dr. Akshoy Ranjan Paul	Prototype Development of a Novel Dry Powder Inhaler (DPI) for Pulmonary Drug Delivery	CST UP	11,94,000
27.	Dr. Radha Rani Mewaram DBT	Development of Microbial Fuel Cell (MFC) based process for domestic wastewater treatment and power generation: Application in improving treatment sustainability	SERB, New Delhi	39,26,000
28.	Dr. Vishnu Agarwal	Study of water and terrestrial biofilms using foldscope as a tool to address community health and sanitation issues	Biotechnology (BCIL)	8,00,000
29.	Dr. Audhesh Narayan	Development and Performance Study of Milling Electro-Chemical Spark Micromachining Progress.	UPCST	7,80,000
30.	Dr. Seema Nara DBT	DBT-TANUVAS Canine Research Centre and Networks	DBT, New Delhi	13,65,000
31.	Dr. Shivesh Sharma DBT	Studies on Nanoparticles (FeO ₂ and CuO-NPS) Mediated Toxicity, Tolerance Mechanisms and Their	CSIR, New Delhi	30,96,000

32.	Dr. Radha Rani Mewaram, DBT	Toxicity Management in Some Susceptible and Tolerant Rice (<i>Oryza sativa</i> L.) Varieties Impact of <i>Vetiveria zizanioides</i> (L.), its root exudates and associated microbial communities on biogeochemistry of heavy metals and their application in development of remediation strategies for heavy metal contaminated sites	SERB, New Delhi	35,97,924
33.	Dr. Mayank Pandey, Dr. Basant Kumar, Dr. Y. K. Prajapati, Dr. Krishna Kr, Mishra	Young Faculty Research of the Visvesvaraya PhD Scheme for Electronics & IT	DeitY, New Delhi	1,11,00,000
34.	Dr. J. C. Mohanta MED	Quad-captor application for live-inspection of power transmission lines	DST, New Delhi	24,12,300
35.	Dr. Shashank Srivastava	Intelligent detection and mitigation of DDoS Attack in SDN	DST, New Delhi	24,64,880
36.	Dr. Harinder Singh Chemical Engineering	Effect of Dual Modifications of Starch Isolated from Various Cultivars of Sorghum for the Production of Specialty and Resistant Starches and Evaluation of Genotype Diversity in Cultivars Using Flour As Model	Ministry of Food Processing Industries (MoFPI)	31,60,520
37.	Dr. Ashutosh Mani BDT	Screening and identification of natural inhibitors for β -Secretase-1 as potential therapeutics against Alzheimer's disease	SERB, New Delhi	45,17,480
38.	Dr. Ruchi Chawla Chemistry	Visible-light mediated synthetically important radical reactions of vinyl epoxides	DST, New Delhi	26,34,000
39.	Dr. Asheesh Kumar Singh, EED	E-Mobility: An Electricity Grid Perspective	MHRD, New Delhi	63,38,355
40.	Dr. Nand Kishor EED	Indo-Finland joint call for Mobility of Researchers	DST, New Delhi	1,00,000
41.	Dr. Vishnu Agarwal DBT	Designing and development of a novel quorum quenching and lytic bacteriophage cocktail based therapeutic strategy by using QS regulated CRISPR-CAS system to prevent <i>Pseudomonas Aeruginosa</i> and its biofilm associated infections.	ICMR, New Delhi	23,66,560
42.	Dr. Shivesh Sharma DBT	GIS-based Mapping of Microbial Diversity across the Ganges for Ecosystem Services	Ministry of Jal Shakti, New Delhi	57,75,000
43.	Dr. Arti Chouhan Chemistry	Syntheses, Characterizations and Applications of Luminescent metal organic Frameworks	DST, New Delhi	27,95,000
44.	Dr. Ganesh Sahu SMS	Developing a Model for Effective Adoption of Solar Energy System in	ICSSR, New Delhi	12,00,000

45.	Dr. Shivesh Sharma DBT	India Collaborative project with CSIR-NEERI during Kumbh Mela 2019	CSIR-NEERI Nagpur	3,92,090
46.	Dr. Richa Negi	Indo-Norway Joint Project entitled: Integrated Renewable Resources and Storage: Operation and management [IReSOpm]	DST, New Delhi	46,52,760
47.	Ms. Smita Kumari, WoS-B	Role of poly aromatic hydrocarbon (PAH) in exonal switch of cd5 gene of human T cells	DST, New Delhi	22,86,368
48.	Head, Mathematics	DST-FIST (Fund for Improvement in S&T Infrastructure.	DST, New Delhi	45,00,000
49.	Dr. Suantak Kamsonlian Chemical Engineering	Development of a Novel Electrochemical membrane bioreactor (EMBR) for the treatment of low strength municipal wastewater and Generation of sustainable bioelectricity simultaneously	SERB, New Delhi	39,30,195
50.	Ms. Priya Rai WoS-A	Augmentation of fermentative bio-hydrogen production by using Nanoparticles and immobilization techniques for mitigating biowastes	DST, New Delhi	28,89,400
51.	Dr. Hemant Kumar Pandey	Mapping groundwater quality Depleted area, Potential Groundwater Recharge Zones and Evolving the Farmer's Need based Groundwater Recharge structures in District Mahoba of Bundelkhand region of UP.	DST, New Delhi	14,99,040
52.	Dr. Vinay Kumar ECED	Design and Development of Underwater Sensor Networks using Magnetic Induction based Communications	SERB, New Delhi	11,97,248
53.	Prof. Nand Kishor	Study on Cyber-physical Approach for Electric Power Grid	SERB, New Delhi	54,29,263
Total				29,51,27,156

2) DETAILS OF NEW SANCTIONED RESEARCH PROJECT DURING THE FINANCIAL YEAR 2019-20

Sl. No.	Principal Investigator /Co-investigator	Project Title	Funding Agency	Sanctioned Amount (Rs.)	Duration Month & Years
1.	Dr. Asheesh Kumar Singh EED	E-Mobility: An Electricity Grid Perspective	MHRD, New Delhi	63,38,355	2 Years
2.	Dr. Rohit Ranjan Shahi, Physics	SERB Research Scientist (SRS) Fellowship Scheme	SERB, New Delhi	46,00,000	Transferred
3.	Dr. Nand Kishor, EED	Indo-Finland joint call for Mobility of Researchers	DST, New Delhi	1,00,000	1 Month
4.	Dr. Surya Yadav	DST Inspire Faculty award	DST, New Delhi	22,00,000	Transferred
5.	Dr. Vishnu Agarwal, DBT	Designing and development of a novel quorum quenching and lytic bacteriophage cocktail based therapeutic strategy by using QS regulated CRISPR-CAS system to prevent Pseudomonas Aeruginosa and its biofilm associated infections.	ICMR, New Delhi	23,66,560	2 Years
6.	Dr. Shivesh Sharma, DBT	GIS-based Mapping of Microbial Diversity across the Ganges for Ecosystem Services	Ministry of Jal Shakti, New Delhi	57,75,000	2 Years
7.	Dr. Arti Chouhan, Chemistry	Syntheses, Characterizations and Applications of Luminescent metal organic Frameworks	DST, New Delhi	27,95,000	3 Years
8.	Dr. Ganesh Sahu, SMS	Developing a Model for Effective Adoption of Solar Energy System in India	ICSSR, New Delhi	12,00,000	2 Years
9.	Dr. Shivesh Sharma, DBT	Collaborative project with CSIR-NEERI during Kumbh Mela 2019	CSIR-NEERI Nagpur	3,92,090	1 Year
10.	Dr. Richa Negi	Indo-Norway Joint Project entitled: Integrated Renewable Resources and Storage: Operation and management [IReSOpm]	DST, New Delhi	46,52,760	3 Years
11.	Ms. Smita Kumari, WoS-B	Role of poly aromatic hydrocarbon (PAH) in exonal switch of cd5 gene of human T cells	DST, New Delhi	22,86,368	3 Years
12.	HEAD, Mathematics	DST-FIST (Fund for Improvement in S&T Infrastructure.	DST, New Delhi	45,00,000	5 Years
13.	Dr. Suantak Kamsonlian, Chemical Engineering Department	Development of a Novel Electrochemical membrane bioreactor (EMBR) for the treatment of low strength	SERB, New Delhi	39,30,195	3 Years

14.	Ms. Priya Rai, DBT	municipal wastewater and Generation of sustainable bioelectricity simultaneously Augmentation of fermentative bio-hydrogen production by using Nanoparticles and immobilization techniques for mitigating biowastes	DST, New Delhi	28,89,400	3 Years
15.	Dr. Hemant Kumar Pandey, CED	Mapping groundwater quality Depleted area, Potential Groundwater Recharge Zones and Evolving the Farmer's Need based Groundwater Recharge structures in District Mahoba of Bundelkhand region of UP.	NRDMS/D ST, New Delhi	14,99,040	2 Years
16.	Dr. Vinay Kumar, ECED	Design and Development of Underwater Sensor Networks using Magnetic Induction based Communications	SERB, New Delhi	4,90,442	1 Year Received by Transfer
17.	Prof. Nand Kishor	Study on Cyber-physical Approach for Electric Power Grid	SERB, New Delhi	54,29,263	3 Years
Total				7,53,96,771	

3) SPONSORED RESEARCH PROJECTS COMPLETED DURING 2019-20

Sl. No.	Principal Investigator/ Co-ordinator	Title of Project	Sponsoring Agency	Date of Sanction / Duration
1.	Dr. Sameer Srivastava, DBT	Characterization of Epigenetically Deregulated Genes in Colorectal Adenomas/Carcinomas Using Next Generation Sequencing Technologies for Development of Novel Biomarkers.	DBT, New Delhi	29.07.2015/ 3 Years
2.	Dr. Ambak Kumar Rai, DBT	Study to Investigate the Therapeutic Efficacy of CD5 Blocking in Treatment of T Cell lymphoblastic Leukemia	DBT, New Delhi	29.07.2015/ 3 Years
3.	Dr. Murari Venkataramanujam, AMD	The Effect of Micro Level Progressive Matrix Plasticity on the Macro Level Response of Unidirectional Composites: Micromechanics Based Study	SERB, New Delhi	01.01.16/ 3 Years
4.	Dr. Rohit Ranjan Shahi, Physics	Inspire Faculty Award (Studies on Nanoparticles Decoration in Super Critical Fluid To Improve The Hydrogen Sorption Cyclability of Most Promising Storage Materials i.e. Manesium)	DST, New Delhi	24.12.13/ 5 Years
5.	Dr. Arun Kumar Singh, Physics	Electronic and Optical properties of Organic Semiconductors on 2D Nanomaterials (Graphene, MoS ₂ , WS ₂)	DST, New Delhi	23.12.13/ 5 Years
6.	Dr. A.N. Sawarkar	Studies on Pyrolysis of Rice Husk	Marathi Vidnyan Parishad, Mumbai	02.06.2016/ 1 Year
7.	Dr. RamJi Dwivedi, GIS	Landslide inventory Preparation using Multi-temporal SAR Interferometry (InSAR)	DST, New Delhi	09.03.17/ 3 Years
8.	Dr. Ravindra Tripathi, HSS	Strategies for Development of Handicraft Sector in India: An Empirical Study of Handicrafts Sector in Uttar Pradesh	ICSSR, New Delhi	10.01.18/ 1 Year
9.	Dr. Dipesh Shikchand Patle, Chemical	In SITU Biodiesel Production from Microalgae Using Ultrasonic Assisted Reactor	SERB, New Delhi	28.01.19/ 1 Year
10.	Dr. Rohit Ranjan Shahi, Physics	SERB Research Scientist (SRS) Fellowship Scheme	SERB, New Delhi	08.07.2019/ 2 Years
11.	Dr. Surya Deo Yadav	DST Inspire Faculty award	DST, New Delhi	15.07.2019/ 5 Years

Testing and Consultancy 2019-20

Sl. No.	Name of PI	Name of Funding Agency	Project Title	Amount (INR)
1.	Prof. R. P. Tiwari	The Executive Engineer Saryu Nahar Khand-6, U.P. Irrigation Department Shrawasti	Mix Design of Concrete	106200.00
2.	Dr. Goutam Ghosh	Project Manager, U.P. Project Corporation Limited, Construction Unit-16, Mirzapur	Testing of materials	8850.00
3.	Dr. V. P. Singh	Executive Engineer Rural Engineering Department Pratapgarh U.P	Sub-surface Exploration	383500.00
4.	Prof. P.K. Mehta	M/s AAEE Consultancy Pvt. Ltd, 1/15, Vibhuti Khand, Gomti Nagar, Lucknow- 226001	Vetting of drawing and calculation of small bridge	59000.00
5.	Dr. Goutam Ghosh	M/s Larsen & Turbo Limited, Construction, House No. 8/152 (62), Opposite Beli Hospital, Stanley Road, Prayagraj	Compressive Strength of Cubes	5900.00
6.	Prof. R. P. Tiwari	The Executive Engineer, Construction Division-2, UPPWD Mirzapur.	Testing of materials	14160.00
7.	Prof. R. P. Tiwari	The Executive Engineer, Construction Division-2, UPPWD Mirzapur.	Testing DBM Cores	84960.00
8.	Dr. Shalinee Shukla	Ms. Vinita Singh, Sampada Trading Company, MiG-29, Sidharthpuram, G.D.A. Gorakhpur-273017	Testing of 20 mm crushed Rock Surface	8260.00
9.	Dr. Goutam Ghosh	M/s Bhawa Engineers, G.M. (Projects), MIG-II, Plot No. 12, Chak Naini ADA Colony Naini, Allahabad, U.P. 211008.	Compressive Strength of Cubes	5900.00
10.	Dr. Abhishek Kumar	M/s Citizen Infraventures Private Limited Sahyog Bhawan, 1 M.G Marg, Adjacent to Bishop Johnson School Civil Lines, Prayagraj-211001	16 mm reinforcement steel bar Tensile Test and Bend Test	8850.00
11.	Dr. Ramesh Pandey	M/s Citizen Shubhalay Infrabuild LLP, Sahyog Bhawan, 1 M.G Marg, Adjacent to Bishop Johnson School Civil Lines, Prayagraj-211001	Testing Bend & Rebind Test	8850.00
12.	Dr. Goutam Ghosh	M/s Nandu Construction, Gram: Soram, Meja Khas Meja, Road Allahabad (U.P.) Pin 212203	Testing of materials & Mix Design of M-25 Grade Concrete	46020.00
13.	Dr. Goutam Ghosh	Mr. S. K. Bajpai, Executive Engineer, U.P. State Construction and Infrastructure Development Corporation Limited, 236/174/4, Triveni Gas Godown Road, New Mehdori, Prayagraj	Testing of materials	15930.00
14.	Dr. A. R. Paul	M/s Divya Traders, Raipur Pure Kalyan Shah, Harisenganj, Soraon, Allahabad	Pressure Test	72216.00
15.	Dr. Goutam Ghosh	Project Manager, U.P. Project Corporation Limited, Construction Unit-14, C-1015, Charch Road, Near Shekhar Hospital, Indira Nagar, Lucknow	Compressive Strength of C.C. Cubes	16520.00

16.	Dr. Goutam Ghosh	Mr. Anubhav Verma, Partner Citizen Infraventures Private Limited, Sahyog Bhawan, 1 M.G Marg, Near Bishop Johnson School (Near High Court), Civil Lines, Prayagraj-211001	Compressive Strength of Cubes	7080.00
17.	Dr. Goutam Ghosh	Mr. Anubhav Verma, Director Citizen Shubhalay Infrabuild LLP, Sahyog Bhawan, 1 M.G Marg, Near Bishop Johnson School (Near High Court), Civil Lines, Prayagraj	Compressive Strength of Cubes	7080.00
18.	Prof. R. P. Tiwari	The Project Manager, Unit-33, C & DS, U.P. Jal Nigam, Allahabad	Third Party Inspection	64900.00
19.	Prof. P. K. Mehta	The Executive Engineer, Construction Division, U.P. Jal Nigam, Jaunpur -222002	Structural Design (RCC) and drawing of Bhagauti Nala	99120.00
20.	Dr. Kumar Venkatesh	Divisional Engineer/Track N.C. Railway, Allahabad	Geotechnical Test	88500.00
21.	Prof. R. P. Tiwari	The Manager (Civil), Rites Limited, Regional Project Office, Lucknow-226201	Testing of Ballast	5900.00
22.	Prof. R. P. Tiwari	The Executive Engineer, Provincial Division, U.P. P. W.D., Varanasi	Mix Design of Samples	165200.00
23.	Prof. G. P. Sahu	GIAN Co-ordinator, MNNIT, Allahabad	Video Recording	59000.00
24.	Dr. N. R. Rawal	The Executive Engineer, Office of Executive Engineer, Irrigation Construction Section, Chitrakoot	Testing of Consultancy	26550.00
25.	Dr. N. R. Rawal	The Executive Engineer, Office of Executive Engineer, UNICEF Project Unit, UP Jal Nigam, Chitrakoot	Testing of Water Sample	26550.00
26.	Dr. H. K. Pandey	M/s Hindalco Industries Limited, Renusagar Power Division Renusagar- 231218, District Sonbhadra (U.P.) India	Design Consultancy	147500.00
27.	Prof. R. P. Tiwari	The Upper Project Manager, U.P. Rajkiya Nirman Nigam Ltd. Rajkiya Allopathic Medical College Unit, Bahraich	Third Party Inspection	177000.00
28.	Dr. Goutam Ghosh	Sri S. P. Bagri, Pariyojna Prabandhak, U.P. Rajya Setu Nigam Ltd 16, Madan Mohan Malviya Marg, Setu Bhavan, Lucknow	Compressive Strength of Cubes	5900.00
29.	Prof. G. P. Sahu	GIAN Co-Ordinator, MNNIT Allahabad	Video Recording (April 1, 2019 to April 12, 2019)	118000.00
30.	Prof. R. P. Tiwari	M/s I.P.M. Company, 17-18, Auri Mod, Bina Road, Anpara, Sonbhadra	Checking & Report Preparation charges	47200.00
31.	Prof. A. K. Sachan	M/s Viddut Kumar Jain, Kundan Bhawan, Sec-23, Indira Nagar, Lucknow-226016	Design of 300 kl.& 500 kl Underground Water Tank	70000.00
32.	Dr. Goutam Ghosh	The Engineer-In-Charge, Vinayak kripa Realtors (P) Ltd., 265/316, Old, Katra, Allahabad-211002 (U.P.)	Mix Design of Concrete	35400.00
33.	Dr. Goutam Ghosh	M/s Kapoor Construction Company, 22, Ashok Nagar, Allahabad,	Mix Design of M-25 Grade Concrete	64900.00
34.	Dr. Goutam Ghosh	The Engineer-In-Charge, Vinayak kripa	Mix Design of	76700.00

		Home Build LLP, 265/316, Old, Katra, Allahabad	Concrete	
35.	Dr. Mayank Pandey	The Project Manager, Allahabad Smart City Project, L&T Construction, 215/02B Ground Floor, Ashok Nagar, Prayagraj-211001	Technical consultancy for VCA based	885000.00
36.	Dr. Goutam Ghosh	Executive Engineer, Concrete Sleeper Plant, N. C. Rly. Subedarganj, Allahabad	Mix Design of M-60 Grade Concrete	76700.00
37.	Dr. Goutam Ghosh	M/s Larsen & Toubro Limited, Construction, House No. 8/152 (62), Opposite Beli Hospital, Stanley Road, Prayagraj	Testing of materials	11800.00
38.	Prof. R. P. Tiwari	Mr. Amit Goel, Shri Sagar JMD Infracity, Prayagraj,	Checking & Vetting	35400.00
39.	Dr. A. R. Pal	M/s Ram Kripal Singh, Construction (P) Limited, Lehdi Crossing Urwa, Allahabad	Tensile Bend and rebend Test	47200.00
40.	Dr. Abhishek Kumar	M/s Ram Kripal Singh, Construction (P) Limited, Lehdi Crossing Urwa, Allahabad	Tensile Bend and rebend Test	47200.00
41.	Dr. Ajay Bharti	M/s Ram Kripal Singh, Construction (P) Limited, Lehdi Crossing Urwa, Allahabad	Tensile Bend and rebend Test	37760.00
42.	Dr. A. R. Paul	M/s Ram Kripal Singh, Construction (P) Limited, Lehdi Crossing Urwa, Allahabad	Tensile Bend and rebend Test	9440.00
43.	Prof. R. P. Tiwari	M/s Ram Kripal Singh, Construction (P) Limited, Lehdi Crossing Urwa, Allahabad	Tensile Bend and rebend Test	28320.00
44.	Dr. Ramesh Pandey	M/s Ram Kripal Singh, Construction (P) Limited, Lehdi Crossing Urwa, Allahabad	Tensile Bend and Rebend Test	37760.00
45.	Dr. Vivek Kumar Patel	M/s Ram Kripal Singh, Construction (P) Limited, Lehdi Crossing Urwa, Allahabad	Tensile Bend and Rebend Test	37760.00
46.	Dr. Anindya Bhar	M/s Ram Kripal Singh, Construction (P) Limited, Lehdi Crossing Urwa, Allahabad	Tensile Bend and Rebend Test	18880.00
47.	Prof. Anuj Jain	M/s Ram Kripal Singh, Construction (P) Limited, Lehdi Crossing Urwa, Allahabad	Tensile Bend and rebend Test	18880.00
48.	Dr. Ajaya Bharti	M/s, C. K. Construction, 6 th floor logix techno park plot-5 Sector 127 Noida, Gautam Budh Nagar-201304 (U.P.)	Tensile Bend and Rebend Test	56640.00
49.	Dr. Vivek Kumar Patel	M/s, C. K. Construction, 6 th floor logix techno park plot-5 Sector 127 Noida, Gautam Budh Nagar U.P.-201304	Tensile Bend and rebend Test	56640.00
50.	Dr. Goutam Ghosh	Sri Saroj Kumar Prasad, Sahyak Prabandhak, Bhartiya Reserve Bank, Sampada Vibhag, Mahatma Gandhi Marg, Kanpur	Condition Assessment Test of KnsQ Presidential Colony Kanpur	53572.00
51.	Prof. R. P. Tiwari	The Additional Project Manager, U.P. Rajkiya Nirman Nigam Ltd., Mainpuri Unit, Firozabad-283203	Third Party Inspection	177000.00
52.	Prof. R. P. Tiwari	The Additional Project Manager, U.P. Rajkiya Nirman Nigam Ltd. Mainpuri Unit, Firozabad-283203	Third Party Inspection	177000.00
53.	Dr. Goutam Ghosh	Er. S. K. Mishra, IPMC Company, Sonbhadra,	Materials Test	47200.00
54.	Dr. Goutam Ghosh	Mr. Shahid Ali, Project Manager, Unit-38, Construction and Design Services, Uttar	Testing of materials	20650.00

		Pradesh Jal Nigam Raj Vila Chandi Niraha, Robartganj, Sonbhadra		
55.	Dr. Rama Shanker	Adhishasi Abhiyanta, Rapti Nahar Nirman Khand-Pratham, Tulsipur, Balrampur	Haimar Test	1899800.00
56.	Dr. Goutam Ghosh	Pariyojna Prabandhak, U.P. Rajya Setu Nigam Limited, Setu Nirman Ikayee-2, Prayagraj	Testing of materials	25960.00
57.	Dr. Goutam Ghosh	M/s C. K. Construction, 6 th floor, Logix Techno Park, Plot-5, Sector-27, Noida, Gautam Buddha Nagar- 201304 (UP)	Testing of stone Aggregates	58410.00
58.	Dr. Goutam Ghosh	M/s C. K. Construction, 6 th floor, Logix Techno Park, Plot-5, Sector-27, Noida, Gautam Buddha Nagar- 201304 (UP)	Testing of Cement	11800.00
59.	Dr. Goutam Ghosh	M/s C. K. Construction, 6 th floor, Logix Techno Park, Plot-5, Sector-27, Noida, Gautam Buddha Nagar- 201304 (UP)	Testing of Cement	11800.00
60.	Dr. Goutam Ghosh	M/s C. K. Construction, 6 th floor, Logix Techno Park, Plot-5, Sector-27, Noida, Gautam Buddha Nagar, - 201304 (UP)	Compressive Strength of C.C. Cubes	5900.00
61.	Dr. Goutam Ghosh Dr. P. R. Pal	M/s C. K. Construction 6 th floor, Logix Techno Park, Plot-5, Sector-27, Noida, Gautam Buddha Nagar- 201304 (UP)	Testing of PPC. Cement	11800.00
62.	Dr. Goutam Ghosh	M/s C. K. Construction, 6 th floor, Logix Techno Park, Plot-5, Sector-27, Noida, Gautam Buddha Nagar- 201304 (UP)	Compressive Strength of C.C. Cubes	9440.00
63.	Prof. A.K. Sachan	M/s Nitin Construction Company, 33, Ajay Nagar, Near Sector-8, Indira Nagar, Lucknow-226016	Design of 1000 KI OHT on 20 m Staging	50000.00
64.	Prof. Rakesh Kumar	Pariyojna Prabandhak, Unit-38, Construction and Design Services, Uttar Pradesh Jal Nigam, Robartsganj, Sonbhadra (U.P.)	Third Party Inspection	94400.00
65.	Dr. P. R. Pal	Asstt. Executive Engineer, Concrete Sleeper, N.C. Rly., Subedarganj Allahabad	Testing of sand	5900.00
66.	Dr. A. R. Pal	Upper Pariyojna Prabandhak, U.P. Rajkiya Nirman Nigam Limited, Machinery and Structural Centre	Tensile Bend and rebend Test	47200.00
67.	Dr. Goutam Ghosh	Mr. Ram Vriksha, Project Manager, Unit-33, Construction and Design Services, Uttar Pradesh Jal Nigam, 263, Momfordganj, Prayagraj	Testing of materials	77290.00
68.	Prof. R. P. Tiwari	JMC Projects (India) Limited, C/o Khorda Dhenkanal Water Supply Project, Execution of Rural Piped Water Supply, Khorda Dhenkanal, KHORDA-751001, ODISHA	Proof Checking and vetting	2242000.00
69.	Prof. G.P. Sahu	GIAN Course Co-Ordinator MNNIT Allahabad	Video Recording (April 22-26, 2019)	59000.00
70.	Dr. V. P. Singh	Mr. Mohd Nasaruddin, SLR Construction Pvt. Ltd, P-18, Rishab Corporate tower KCC Delhi, 110092	Testing of Sail MDD & OMC	11800.00
71.	Dr. N. R. Rawal	Mr. Ajay Prayap Singh, Chief Engineer,	Testing of water	20060.00

		Hotal Kanha Shyam, Prayagraj 22/1, Strachey Road, Civil Lines Allahabad - 211001 (U.P.)	sample	
72.	Dr. Kumar Vankatesh	R.S. Constructions , 1-635, Govind Puram, Ghaziabad 201002	Vetting of Design/ Drawing of Reinforced Earth Wall	47200.00
73.	Dr. Ashotosh Pandey	Executive engineer, Prayagraj Development Authority Prayagraj	Mortar Test	11800.00
74.	Dr.Goutam Ghosh	Mr. Hitesh Srivastava, Vigilance Officer for General Manager (Vigilance), CORE/ALD, Central Organisation for Railway Electrification 1, Nawab Yusuf Road, Civil Lines, Allahabad-211001	Testing of Bricks	11210.00
75.	Dr. Goutam Ghosh	M/s C. K. Construction, 6th floor, Logix Techno Park, Plot-5, Sector-27, Noida, Gautam Buddha Nagar, Uttar Pradesh	Testing of PPC Cement	11800.00
76.	Dr. Goutam Ghosh	Project Manager, Gharpure Engineering and Constructions (P) Ltd. Raibareli	Testing of materials	18290.00
77.	Prof. Y. K. Gupta	Mr. Ashutosh Mathur, V.P.-Designs, G.R. Infra Projects Ltd., G R House, Hiran Magri Sector No. 11, Udaipur-313002, Rajasthan	Proof Checking of Design of and Drawing of RoB	177000.00
78.	Dr. Rama Shankar	Executive Engineer Saryu Drainage Khand 03, Gonda.	Non-destructive test and Analysis of Structures.	3988400.00
79.	Dr. Kumar Venkatesh	Executive Engineer, Irrigation Construction Division Karvi,	Soil Sampling, and testing	631300.00
80.	Dr. Gautam Ghosh	Project Manager, Construction & Design Services, U.P. Jal Nigam, 769,Civil Lines, Fatehpur	Testing of materials	155760.00
81.	Dr. Gautam Ghosh	Pariyojna Prabandhak, Unit-38, Construction and Design Services, Uttar Pradesh Jal Nigam, Vila Chandi Tiraha Robartsganj, Sonebhadra (U.P.)	Testing of steal Bar	56640.00
82.	Dr. Gautam Ghosh	Pariyojna Prabandhak, Unit-38, Construction and Design Services, Uttar Pradesh Jal Nigam, Vila Chandi Chuaraha Robartsganj, Sonebhadra (U.P.)	Testing of matirals	77290.00
83.	Dr. Gautam Ghosh	NTPC Limited, Firoz Gandhi Unchahar Thermal Power Project, Unchahar, Disitt.-Raibareli, U.P., Pin-229406	Testing of Stone Ballast	10620.00
84.	Dr. Gautam Ghosh	G.M. (Project), Bhava Engineers,1717-A Gurudwara Road, Kotia Mubarakpur, New Delhi-110003	Testing of Brick	6490.00
85.	Dr. Gautam Ghosh	M/S Bhava Engineers, MIG-II Plot No.12 Chak Naunia, ADA Colony, Naini Allahabad	Testing of Steel Bar	37760.00
86.	Prof. A. K. Sachan	M/S Viddut kumar Jain, Kundan Bhawan, Sec-23, Indira Nagar, Lucknow-226016	Design of 350 kl OHT P 125 CWR	40000.00
87.	Dr. Gautam Ghosh	Pariyojna Prabandhak, Nirman Ikayee-14, UP Project Cooperation Ltd, 3/79, Vishal	Compressive Strength of C.C	5900.00

		Khand, Gomti Nagar, Lucknow - 226010	Cubes	
88.	Prof. A. K. Sachan	M/s K.A. Construction 37-A, Kamla Nagar, Collector ganj, Fatehpur-212601	Design of 450 kl OHT	28000.00
89.	Prof. A. K. Sachan	M/s R.K. Engineers Sales Ltd, B.116, 1 st Floor, Vibhuti Khand Gomti Nagar, Lucknow	Design of 500 kl & 600kl CWR	50000.00
90.	Prof. A. K. Sachan	M/s Nitin Construction Company, 9/982, Indira Nagar, Lucknow- 226016	Design of 275 kl OHT	20000.00
91.	Prof. A. K. Sachan	M/s Chandel Contractor Works, Banda 210001	Design of 150kl, 200 kl &250 kl OHT	55000.00
92.	Dr. Abhishek kumar	M/s GMR Infrastructure Limited, House No. 2/2B, Near vishal Mega Mart, 1st floor Bhagwan Ram Mandir Marg, Civil lines Prayagraj 211001	Mass of Zin Cutting	7080.00
93.	Dr. N. R.Rawal	Mr. Siddhartha Singh, AGM (FQA), Meja TPP, Kohdar, Allahabad-212301	Consultancy	8850.00
94.	Dr. Kumar Venkatesh	Executive Engineer, Irrigation Construction Division Karvi	Soil Sampling, and testing	82600.00
95.	Prof. A. K. Sachan	M/s Nitin Construction Company, 9/982, Indira Nagar, Lucknow- 226016	Design of 750 KLOHT	32000.00
96.	Prof. A. K. Sachan	Ms. R. Construction & Engineers, 84, Tulsi Vihar, (Near Sector-14, Power House), Indira Nagar, Lucknow- 226016	Design of 750 KLOHT	15000.00
97.	Prof. A. K. Sachan	M/s S.K.B. Gupta, Near Bachcha Jail, Hardaull Ghat Road Kyotara, Banda (U.P.)	Design of 300 KLOHT	25000.00
98.	Prof. Rakesh Kumar	Upper Pariyojna Prabandhak, U.P. Rajkiya Nirman Nigam Limited, Jhansi Ikayee-1 Paramedical Campus Kanpur Road Jhansi-201001	3 rd Party Inspection	1380600.00
99.	Prof. R. P.Tiwari	M/s Adycon Concrete LLP, KG-18, New Kavi Nagar, Ghaziabad (U.P.) - 201001	Mix design M-30,M-35, M-45 grade concrete	47200.00
100.	Prof. R. P.Tiwari	Karyalya Pariyojna Prabandhak, Unit-33, Construction and Design Services, Uttar Pradesh Jal Nigam, 263, Mumfordganj, Prayagraj	Soil Testing	118000.00
101.	Prof. R. P.Tiwari	Karyalya Pariyojna Prabandhak, Unit-33, Construction and Design Services, Uttar Pradesh Jal Nigam, 263, Mumfordganj, Prayagraj	3 rd Party Inspection	118000.00
102.	Dr. Abhishek Kumar	M/s GMR Infrastructure Limited, House No. 2/2B, Near vishal Mega Mart, 1st floor Bhagwan Ram Mandir Marg, Civil lines Prayagraj 211001	Tensill Test	5900.00
103.	Dr. Kumar Venkatesh	Head of department Environment CMPDI, RI-IV Jayant, Singrauli Pin-48680, M.P.	Testing of Supplied Samples	516250.00
104.	Dr. Kumar Venkatesh	Executive Engineer construction Division-4 (Kumbh Mela) PWD, prayagraj	Soil testing	70800.00
105.	Dr. N. R. Rawal	The Executive Engineer, Office of Executive Engineer, UP State construction and Infrastructure Development Corp. Ltd.,	Testing of Water Sample	8850.00

106.	Dr. Shalinee Shukla	236/174/4, New Mehduri Colony, Prayagraj S.P. Bargi, Pariyajna Prabandhak, U.P. Rajya Setu Nigam Limited, Setu Nirman Ikayee-2, Prayagraj	Testing of 20mm 10mm stame Grit & coarsesand	25960.00
107.	Dr. Goutam Ghosh	M/s EMS Infracon Private Limited. C-88, Raj Nagar Ghaziabad U.P. 201002,	Testing of materials	29500.00
108.	Dr. Goutam Ghosh	M/s EMS Infracon Private Limited, C-88, Raj Nagar Ghaziabad U.P. 201002,	Testing of materials	25370.00
109.	Dr. Goutam Ghosh	M/s Larsen & Toubro Limited, Sector-3, Hapur, U.P -245304	Compressive Strength of Concrete Cubes	5900.00
110.	Dr. Goutam Ghosh	M/s Larsen & Toubro Limited, Sector-3, Hapur, U.P-245304	Compressive Strength of Concrete Cubes	5900.00
111.	Dr. H. K. Pandey	National Mission for Clean Ganga Ministry of Water Resources, RD&GR, Govt. Of India 1 st Floor, MDC National Stadium, India Gate, New Delhi-110002	3 rd Party Appraisal	177000.00
112.	Dr. H. K. Pandey	National Mission for Clean Ganga Ministry of Water Resources, RD&GR, Govt. Of India 1 st Floor, MDC National Stadium, India Gate, New Delhi-110002	3 rd Party Appraisal	177000.00
113.	Prof. R. P. Tiwari	The Additional Project Manager U.P. Rajkiya Nirman Nigam Ltd. Arbi Farsi University Unit, Lucknow	3 rd Party Inspection	708000.00
114.	Prof. R.P. Tiwari	The Unit In-Charge Unit-14, U.P. Rajkiya Nirman Nigam Ltd. Plot No.-4, Sector-7, Gomti Nagar Extn., Lucknow-226002	3 rd Party Inspection	177000.00
115.	Prof. R. P. Tiwari	The Project Manager, C&DS, Unit-55, U.P. Jal Nigam Fatehpur,	3 rd Party Inspection	177000.00
116.	Prof. R. P. Tiwari	The Project Manager, C&DS, Unit-08, U.P. Jal Nigam Etahwa,	3 rd Party Inspection	177000.00
117.	Prof. R. P. Tiwari	Mr. Anil Singh, Senior Manager (Environment Cell), Hindalco Industries Limited,	Rainwater Harvesting system as Pilot Project	118000.00
118.	Prof. A. K. Sachan	M/s Royal Engineers Deputyganj, Hariharpur, Neelmatha, Lucknow U.P.	Design of 50 kl OHT on 14 m	12000.00
119.	Prof. A. K. Sachan	M/s Viddut Kumar Jain, Kundan Bhawan, Sec-23, Indira Nagar-Lucknow 226016	Design of 700 kl OHT on 18 m	32000.00
120.	Prof. A. K. Sachan	M/s Nitin Construction Company, 33, Ajay Nagar, Near Sector-8, Indira Nagar, Lucknow-226016	Design of 300 kl OHT on 16 m Staging	25000.00
121.	Prof. A. K. Sachan	M/s Viddut kumar Jain, Kundan Bhawan, Sec-23, Indira Nagar- Lucknow 226016	Design of 500 kl CWR With Room above it	35000.00
122.	Dr. Goutam Ghosh	M/s Vinayak Kripa Realtors (P) Ltd.265/316 Old Katra, Allahabad	Compressive Strength of Concrete Cubes	5900.00
123.	Dr. R. C. Vaishya	The Project Director, Office of the Project Director State Mission for Clean Ganga-U.P.	Treatment of Nehru Drain, Allahabad	213600.00

		Plot No.18, Sector-7 Gomti Nagar Extension Lucknow-226010	using Bio-remediation III Party Inspection	
124.	Dr. Goutam Ghosh	M/s AGRAJ Infrastructure Pvt. Ltd., 37A/10B, Mulla Campus, Stainely Road, Allahabad (U.P.)-211002	Compressive Strength of Concrete	5900.00
125.	Dr. Goutam Ghosh	M/s ASC Infratech Pvt. Ltd. H-37, 1st Floor, Sector-63, Noida (U.P)-201307	Compressive Strength of Concrete	224200.00
126.	Prof. R. P. Tiwari	The Executive Engineer, Constructive Division-4, U.P.P.W.D. Prayagraj.	Laboratory Testing of Soil (CBR) 4 Nos.)	9440.00
127.	Prof. R. P. Tiwari	The Executive Engineer, Constructive Division-4, U.P.P.W.D. Prayagraj,	Laboratry Testing of Soil (CBR) 8 Nos.)	18880.00
128.	Prof. R. P. Tiwari	The Additional Project Manager U.P. Rajkiya Nirman Nigam Ltd. Arbi farsi University Unit, Lucknow	Third Party Inspection	177000.00
129.	Prof. R. P. Tiwari	The Additional Project Manager, U.P. Rajkiya Nirman Nigam Ltd., King George Medical University Unit-10,Lucknow-226003	Third Party Inspection	177000.00
130.	Prof. R. P. Tiwari	The Additional Project Manager, U.P. Rajkiya Nirman Nigam Ltd. King George Medical University Unit-10,Lucknow-226003	Third Party Inspection	177000.00
131.	Prof. R. P. Tiwari	The Additional Project Manager, U.P. Rajkiya Nirman Nigam Ltd., King George Medical University Unit-10,Lucknow-226003	Third Party Inspection	177000.00
132.	Prof. R. P. Tiwari	The Additional Project Manager, U.P. Rajkiya Nirman Nigam Ltd. King George Medical University Unit-10,Lucknow-226003	Third Party Inspection	177000.00
133.	Prof. R. P. Tiwari	The Additional Project Manager, U.P. Rajkiya Nirman Nigam Ltd.King George Medical University Unit-10,Lucknow-226003	Third Party Inspection	177000.00
134.	Prof. R. P. Tiwari	The Additional Project Manager, U.P. Rajkiya Nirman Nigam Ltd., King George Medical University Unit-10,Lucknow-226003	Third Party Inspection	177000.00
135.	Prof. R. P. Tiwari	The Additional Project Manager, U.P. Rajkiya Nirman Nigam Ltd. King George Medical University Unit-10,Lucknow-226003	Third Party Inspection	177000.00
136.	Dr. Goutam Ghosh	M/s Aquatech Solutions Pvt. Ltd., Cantt Board, Subhash Marg, Jhansi Chavni	Testing of TMT Bar &	56640.00
137.	Dr. Goutam Ghosh	M/s Roto Shine Super, Polymer India Pvt. Ltd., Bandhwa Tahirpur, Jhunsi, Allahabad- 211019	Testing of Cement	11800.00
138.	Dr. Goutam Ghosh	M/s Dev Construction, 80, HIG, Tajnagari, Phase-1, Agra U.P.	Compressive Strength of Concrete Cubes	5900.00
139.	Dr. Goutam Ghosh	Agraj Infrastructure Pvt Ltd, 37A/108, Mulla Campus, Stainley Road, Allahabad 211002	Compressive Strength of Concrete Cubes	5900.00
140.	Dr. P. R. Pal	Chief Project Director, Railway Electrification, Opposite K. K. C. College, Station Road, Charbagh, Lucknow-226001.	Checking and Analysis of masts in Railway	236000.00

			Electrification Projects	
141.	Dr. Goutam Ghosh	Sri Vipin Bihari Singh, Adhishasi Abhiyanta, Sichi Nirman Khand Karvi, Chitrakoot	Quality/NDT Test of Structures Constructed in Kabrai Main Canal	2436700.00
142.	Prof. R. P. Tiwari	The Additional Project Manager U.P. Rajkiya Nirman Nigam Ltd. Gorakhpur Unit-1, Gorakhpur	Third Party Inspection	177000.00
143.	Dr. Goutam Ghosh	U.P. Rajkiya Nirman Nigam Limited, Vishveshwarya Bhavan, Vibhuti Khand, Gomti Nagar, Lucknow - 226010	Testing of materials	47790.00
144.	Dr. Goutam Ghosh	Upper Pariyojna Prabandhak, U.P. Rajkiya Nirman Nigam Limited, Vishveshwarya Bhavan, Vibhuti Khand, Gomti Nagar, Lucknow - 226010	Testing of materials	74930.00
145.	Dr. Goutam Ghosh	M/s Bharat Construction , Mr. Meraj Ahmad Phulpur, Azamgarh	Mix Design of Concrete	76700.00
146.	Dr. Rama shankar	The Apper Manager, Reserve Bank of India Estate Department, Mahatma Gandhi Marg Kanpur 208001	Site Visit for Non-destructive Tests for the structures	29500.00
147.	Dr. A. R. Paul	Karyalya Adhishasi Abhiyanta, Shashtan Nirman Khand, U.P. Jal Nigam, Prayagraj	PVC Pipe 90 mm die pressure Test	9912.00
148.	Prof. Rakesh kumar	Pariyojna Prabandhak, Uttar Pradesh Corporation Limited, Nirman Ikayee-1, Seth Sukhkhumal Road, Sitapur	Third Party Inspection	548700.00
149.	Dr. N. R. Rawal	Mr. Siddhartha Singh, AGM (FQA), Meja TPP, Kohdar, Allahabad-212301	Testing of water Construction	8850.00
150.	Prof. R. P. Tiwari	The Executive Engineer, Provincial Division, U.P.P.W.D. Fatehpur,	Materials of B.C.	11800.00
151.	Prof. S. J. Pawar	M/s Achme Pumps and Power Project , Lucknow	Mass of Zinc Coating of GI Parlin	7080.00
152.	Dr. Goutam Ghosh	M/s Vinayak kripa Realtors (p) Ltd., 265/316 Old Katra, Allahabad	Compressive Strength of Concrete Cubes	5900.00
153.	Dr. Goutam Ghosh	M/s Vinayak kripa Realtors (p) Ltd., 265/316 Old Katra, Allahabad	Compressive Strength of Concrete Cubes	5900.00
154.	Dr. Goutam Ghosh	Project Manager, U.P. Jal Nigam Construction & Design Services U.P. Jal Nigam Lucknow- 226010.	Testing of materials	67850.00
155.	Dr. R. C. Vaishya	Mr. Piyush Misra, Joint Genral Manager (Teah.) Iffco, Phulpur Unit.	Testing of PH, Oil & Grease of R.O. (E.T.P.) Outlet	5900.00
156.	Prof. A. K. Sachan	Civil Group Consultants 26/28, Ghosh Trust, M.G. Marg, Civil Lines, Allahabad.	Vetting of Design of multipurpose Halt at UPRTOU	47200.00
157.	Prof. R. P. Tiwari	The Executive Engineer, Provincial Division, U.P.P.W.D. Prayagraj,	Inspection of PWD Inspection	118000.00

158.	Prof. A. K. Sachan	M/s S. K. Dwivedi, U.P. Jal Nigam Jagdish Ganj, Karwi Distt Chitrakoot (U.P.) 210205	Bungalow. Design of 200 kl OHT and 30 kl CWRPH	30000.00
159.	Prof. A. K. Sachan	M/s K.B. Gupta, Near Bachcha Jail, Hardauli Ghat Road Kyotara, Banda (U.P.) 210001	Design of 30 kl CWRPH	13000.00
160.	Dr. Goutam Ghosh	M/s Bhargava Engineering, Corporation Prabhu Town, Raebareli-229001	Mix Design of Concrete	64900.00
161.	Prof. R. P. Tiwari	The Additional Project Manager, U.P. Rajkiya Nirman Nigam Ltd., Shravasti Unit, Shravasti	Third Party Inspection	531000.00
162.	Prof. Rakesh Kumar	Pariyojna Prabandhak, Uttar Pradesh Corporation Limited, Nirman Ikayee-1, Seth Sukhkhumal Road, Sitapur	Third Party Inspection	141600.00
163.	Prof. Rakesh Kumar	Pariyojna Prabandhak, Uttar Pradesh Corporation Limited, Nirman Ikayee-1, Seth Sukhkhumal Road, Sitapur	Third Party Inspection	259600.00
164.	Prof. R. P. Tiwari	The Executive Engineer, Provincial Division, U.P.P.W.D. Prayagraj,	Third Party Inspection	295638.00
165.	Prof. G. P. Sahu	GIAN Course Co-Ordinator MNNIT, Allahabad	Video Recording (July 15 -26, 2019)	118000.00
166.	Dr. Shalinee Shukla	Adhishasi Abhiyanta, Nirman Khand -4, Lok Nirman Vibhag, Prayagraj	GSB Grade-I and WMM Testing	9440.00
167.	Prof. R. P. Tiwari	M/s EMS Infracon Pvt. Ltd., C-88, Raj Nagar, Ghaziabad	Checking & Vetting of foundation Design	11800.00
168.	Prof. R. P. Tiwari	The Unit In-Charge, U.P. Rajkiya Nirman Nigam Ltd. Saifai Unit-1, Etawah, Saifai	Third Party Inspection	177000.00
169.	Prof. R. P. Tiwari	The Executive Engineer, PIU, PMGSY, Rural Engineering Department, Raibareli	Laboratory testing of 02 Nos. Soil Samples	8260.00
170.	Dr. Goutam Ghosh	M/s Dev Construction, 80, HIG, Tajnagri, Phase-1, Agra	Compressive Strength of Concrete Cubes	5900.00
171.	Dr. Goutam Ghosh	M/s Kotwal Sahu, 61-1/1B, Om Gaytri Nagar, Teliarganj, Prayagraj	Testing of materials	79060.00
172.	Dr. Goutam Ghosh	M/s Kotwal Sahu, 61-1/1B, Om Gaytri Nagar, Teliarganj, Prayagraj	Testing of materials	79060.00
173.	Dr. Shalinee Shukla	M/s Dilip Buildcon Ltd, Varanasi-Dagamagpur Section (Pkg-1),	Testing of Aggregate	53100.00
174.	Dr. Rama Shankar	The Garrison Engineer (AF) Military Engineering Service, Gorakhpur 273008	Testing come Consultancy (Non Destructive Test)	743400.00
175.	Prof. R. P. Tiwari	The Project Engineer, Construction Division-1, Prayagraj,	Testing of materials	69030.00
176.	Prof. R. P. Tiwari	The Executive Engineer/ Construction North Central Railway, Allahabad	Testing of Soil Samples	11800.00
177.	Dr. Goutam Ghosh	M/s Gupta Construction Pvt. Ltd. House No. S-5/48 M, Ardali Bazar, Varanasi	Mix Design of Concrete	64900.00
178.	Dr. Goutam Ghosh	Sri Rohit Khanna, Adhichhan Abhiyanta	Design Consultancy	17700.00

179.	Prof. Rakesh Kumar	Prayagraj Vikas Pradhikaran, 7 th Floor, Indira Bhawan, Civil Lines, Prayagraj Pariyojna Prabandhak, Unit-38, Construction and Design Services, Uttar Pradesh Jal Nigam, Vila Chandi Chuaraha Robartsganj, Sonbhadra (U.P.)	Third Party Inspection	94400.00
180.	Prof. R. P. Tiwari	M/s Shiv Kumar, 16, MIG, SBI Colony Barra-3, Kanpur	Consultancy Charges	47200.00
181.	Prof. R. P. Tiwari Dr. P. R. Pal	The Project Manager, Office of the Project Manager, Unit-35, Construction & Design Services U.P. Jal Nigam, Agra	Third Party Inspection Dr. B.R. Ambedkar University,	118000.00
182.	Dr. Shalinee Shukla	HDPL Infrastructure Ltd., B-1435, Indira Nagar, Lucknow-226016	Testing of Aggregate	69030.00
183.	Dr. Shalinee Shukla	HDPL Infrastructure Ltd., B-1435, Indira Nagar, Lucknow-226016	Testing of Aggregate	69030.00
184.	Prof. R. C. Vaisha Dr. P. R. Pal	The Project Manager, Office of the Project Manager, Unit-35, Construction & Design Services, U.P. Jal Nigam, Agra	Third Party Inspection	177000.00
185.	Dr. Rama Shankar	M/s Rudra Navnirman Pvt. Ltd., First Floor, Gayatri Dham Milan Square, M. G. Marg, Civil Lines, Prayagraj (U.P.)- 211001,	Proof Check/ Vetting of the Structural Drawings	236000.00
186.	Prof. R. P. Tiwari	The Senior Section Engineer/ Works/ Special-I, N.C.R., Kanpur	Concrete Mix Design,	29500.00
187.	Prof. R. P. Tiwari	JMC-JWIL Joint Venture, 6th Floor, Kalpataru Synergy, Opp. Grand Hyatt. Santacruz (East), Mumbai 400 055.	Proof Checking works	2360000.00
188.	Prof. R. P. Tiwari	The Project Manager, Unit -33, C&DS, U.P. Jal Nigam, Prayagraj	Third Party Inspection	141600.00
189.	Dr. Goutam Ghosh	Adhishashi Abhiyanta Sichai Nirman Khand -Ist , U.P. Jal Nigam Raibareilly	Mix Design of Concrete Testing of materials	90270.00
190.	Dr. Goutam Ghosh	M/s Daroga Singh Construction Company D Bhusauli Tola, Prayagraj (Allahabad) U.P.	Testing of materials	51920.00
191.	Dr. Goutam Ghosh	M/s Anand Enterprises Varanasi	Mix Design of Concrete	64900.00
192.	Dr. Kumar Venkatesh	AGM (FQA), Meja Urja Nigam (P) Limited. Kohdar, Allahabad, Prayagraj	Soil Testing	5900.00
193.	Dr. Kumar Venkatesh	AGM (FQA), Meja Urja Nigam (P) Limited. Kohdar, Allahabad, Prayagraj	Soil Testing	29500.00
194.	Dr. Kumar Venkatesh	Executive Engineer, Construction Division-1, PWD, Prayagraj	Soil Testing	58410.00
195.	Dr. Ashutosh Mishra	M/s Daroga Singh Construction, COD Bhusauli Tola, Prayagraj	Tensile Band Test	8850.00
196.	Prof. Rakesh Kumar	Ikayee Prabhari, Uttar Pradesh Rajkiya Nirman Nigam Ltd., Ikayee 10 King George Chikitsa Vishwavidyalay, Lucknow	Third Party Inspection	100300.00
197.	Prof. R. P. Tiwari	The Additional Project Manager, U.P. Rajkiya Nirman Nigam Ltd., Shravasti Unit, Shravasti	Third Party Inspection	271400.00

198.	Dr. Kumar Venkatesh	M/s. R. S. Constructions, 1-635, Govind Puram Ghaziabad	Vetting of Design/ Drawing of Rein forced Earth Wall	82600.00
199.	Dr. Goutam Ghosh	Shri H. L. Yadav, Senior Project Manager, M/s R Cube Infratech Pvt. Ltd., Flat No. 90, Lakhraj Nagina, C-Block Indira Nager Lucknow-226016	Mix Design of M-25 Grade Concrete	35400.00
200.	Dr. Goutam Ghosh	Mr. S. K. Bajpai, Executive Engineer, U.P. State Construction and Infrastructure Development Corporation Limited 236/174/ 4, Tribeni, Gas Godowan Road, New Mehdori, Prayagraj	Testing of materials	15930.00
201.	Prof. A. K. Sachan	Mr. Ram Naresh, Malak Pinjiri Chkity, Kaushambi, 150B/6A, Meerapatti, Allahabad.	Design of 325 kl Water Tank	25000.00
202.	Prof. A. K. Sachan	M/s Sadan Construction, Sadan Shah Civil Line Lalitpur, Disti.- Lalitpur	Design of 60 kl Clear Water Tank.	10000.00
203.	Prof. A. K. Sachan	Project Manager C&DS Unit 53, Hardoi - 241001	25 kl OHT & Vetting of Design	118000.00
204.	Prof. G. P. Sahu	GIAN Course Co-Ordinator MNNIT, Allahabad	Video Recording	59000.00
205.	Prof. Rakesh Kumar	Pariyojna Prabandhak, Unit-38, Construction and Design Services, U.P. Jal Nigam, Robartganj-Sonbhadra	Third Party Inspection	94400.00
206.	Prof. R. P. Tiwari	The Unit In-Charge, U.P. Rajkiya Nirman Nigam Ltd. Saifai Unit-1, Etawah, Saifai	Third Party Inspection	177000.00
207.	Dr. Goutam Ghosh	M/s. Janta Associates & Co Ltd. Ghazipur.	Testing of materials	106790.00
208.	Dr. Goutam Ghosh	Mr. Dhandapani S, Dy. Project Manager L&T Ltd. MGS-SEBN (EX DGON-KWDN), Sanjay Nagar, G T Road, Chandauli 2312104.	Testing of Cum Consultancy	50150.00
209.	Dr. Goutam Ghosh	Adhishasi Abhiyanta, Sichai Nirman Khand Karvi, Chitrakoot.	Mix Design of Concrete	53100.00
210.	Prof. A. K. Sachan	M/s Rites Limited, 13-K.M Milestone, N.H.- 24 Lucknow- Sitapur Road, Lucknow	Design of Box	141600.00
211.	Prof. R. P. Tiwari	The Project Manager, C&DS, Unit-55, U.P. Jal Nigam, Fatehpur.	Material Testing & Mix Design	138060.00
212.	Dr. Rama Shanker	Executive Engineer, Saryu Nahar Khand Banshi, Siddharth nagar, UP.	Non Destructive test of Structure and Analysis	649000.00
213.	Prof. R. C. Vaishya	U.P. Pollution control Board Lucknow, TC-12th vibhuti khand, Gomti Nagar Lucknow.	CAT V	764640.00
214.	Dr. Goutam Ghosh	M/s. Shiv Shakti, Technobuild Pvt. Ltd., E-20, Opp. Old State Bank of India, Industrial Area, Panipat	Testing of materials	82600.00
215.	Dr. Goutam Ghosh	M/s U. P. State Road, Transport Corporation Tehri Kothi, MG Marg, Lucknow-226001	Testing of materials	15930.00
216.	Dr. Goutam Ghosh	M/s U. P. Project Corporation Ltd, Gomti Barage, Gomti Nagar, Lucknow, U.P. Pin-226010	Compressive Strength of Concrete Cubes	5900.00

217.	Dr. Kumar Venkatesh	Executive Engineer, 6th Construction, U.P. Jal Nigam Prayagraj.	Geo technical Investigation	84960.00
218.	Dr. Kumar Venkatesh	M/s S.V.N. Builders, Shop No. 44, Super Market, Mandi, Hapur Road, Ghaziabad.	Soil Testing	11800.00
219.	Dr. Goutam Ghosh	M/s U. P. Project Corporation Ltd, Gomti Barage, Gomti Nagar, Lucknow, U.P. Pin-226010	Compressive Strength of Concrete Cubes	5900.00
220.	Dr. Goutam Ghosh	M/s Larsen & Toubro Limited Infrastructure Vertical, Sector-3, Hapur	Compressive Strength of Concrete Cubes	5900.00
221.	Dr. Goutam Ghosh	M/s. S. P. Singla Constructions Private Limited 2 nd Floor, 207, Express Market, Muradnagar, Ghaziabad-214216 (U.P.)	Testing of materials & Design of concrete	146320.00
222.	Prof. R. P. Tiwari	The Project Manager, Unit-53, C&DS U.P. Jal Nigam Hardoi-241001,	Third Party Inspection	236000.00
223.	Prof. R. P. Tiwari	JMC Projects (India) Limited, 6th Floor, Kalptaru Synergy, Vakola, Santacruz (East), Mumbai-400055	Proof Cheeking and vetting charges	413000.00
224.	Prof. R. P. Tiwari	Chief Engineer, Saryu Nation Project (I), Ayodhya.	Saryu Nahar Project	1026600.00
225.	Prof. R. P. Tiwari	Chief Engineer, Saryu Nation Project (I), Ayodhya.	Saryu Nahar Project	3693400.00
226.	Prof. R. P. Tiwari	M/s R.G. Buildwell Engineers Limited, R 13/84, Raj Nagar, Ghaziabad	Materials Testing	94400.00
227.	Dr. Kumar Venkatesh	Dy. CE/Bridge/Line, 2nd Floor Old G.M. Office Nawab Yusuf Road Near Balmiki Chauraha Allahabad-211001	Soil Testing	47200.00
228.	Prof. A. K. Sachan	M/s Viddut Kumar Jain, Kundan Bhawan, Sec-23, Indira Nagar, Lucknow-226016	Design of 500 kl CWR PH at aligarh and 350 kl OHT	70000.00
229.	Prof. R. P. Tiwari	The Executive Engineer, NH Division, PWD, Mirzapur	Testing of & PQC DBM Core	11800.00
230.	Dr. Goutam Ghosh	Adhishashi Abhiyanta, Sichai Nirman Khand Karvi, Chitrakoot	Compressive Strength of Concrete Cubes	16520.00
231.	Prof. R. P. Tiwari	The Executive Engineer, Electricity Civil Maintenance Division- 2x500 MW, 'A' Thermal Power Project Anapara-Sonbhadra	Geotechnical Investigations	542800.00
232.	Prof. Rakesh Kumar	Ikayee Prabhari, Uttar Pradesh Rajkiya Nirman Nigam Ltd., Sod ikayee- 02, Krishi Engineering College Parisar, Etawah	Third Party Inspection	118000.00
233.	Dr. N. R. Rawal	Mr. C.L. Gupta & Sons Govt. Contractor & General Order Supplier 182, RA Bazar, Cantt. Allahabad	Testing com Consultancy	10030.00
234.	Prof. R. P. Tiwari	The Additional Project Manager, U.P. Rajkiya Nirman Nigam Ltd. Unit-17, Plot No.4, Shahid Path, Sector-7, Lucknow	Third Party Inspection	177000.00
235.	Prof. R. P. Tiwari	The Upper Project Manager, U.P. Rajkiya Nirman Nigam Ltd. Gorakhpur Unit-1,	Third Party Inspection	177000.00

		Gorakhpur		
236.	Dr. Goutam Ghosh	M/s Akasva Infrastructure (P) Ltd. D-5, Ground Floor, Noida, U.P. 20130,	Testing of Tiles	27140.00
237.	Prof. A. K. Sachan	M/s H & C Engineering Lucknow (U.P)	Vetting of Design of 500 kl 20 m staging water Tanks	60000.00
238.	Prof. A. K. Sachan	M/s Satish Chandra Sachan, 279, E.W.S. Double Story, Barra, Kanpur	Design of 400 kl & 225 kl OHT,	40000.00
239.	Prof. A. K. Sachan	M/s MAA Shanti Construction, 93 E.W.S., Dabauli West, Kanpur-22	Design of 500 kl OHT.	28000.00
240.	Prof. A. K. Sachan	M/s MAA Shanti Construction, 93 E.W.S., Dabauli West, Kanpur-22	Design of 500 kl OHT.	28000.00
241.	Dr. N. R. Rawal	M/s Bridge & Roof Co. (India) Ltd. C/O Sr. Manager (FQA-Civil) NTPC Tanda WTP Plant Package, Stage-II.	Testing com Consultancy	8850.00
242.	Dr. R. C. Vaishya	M/s Anand P. Sharma C/o Vastukalp 520, 1st Floor, Saini Plaza, Vil. Choma H Block Palam Vihar, Gurgaon-122017, HR.	Vetting Hydraulic design of STP	35400.00
243.	Prof. A. K. Sachan	M/s Ram Vinod Tripathi 12-A Narpat Nagar, Jarouli-1 Kanpur-208127,	Design of 125 kl OHT. 16 m staging	14000.00
244.	Prof. A. K. Sachan	M/s Sunil Kumar Gaur, 263, Civil Line-Fatehpur-212601	Vetting of Design of 75 kl OHT.	10000.00
245.	Dr. Goutam Ghosh	Uttar Pradesh Avas Evam Vikas Parishad 104, M. G. Marg Lucknow -226001, U.P	Testing of Sand	11800.00
246.	Dr. Goutam Ghosh	M/s EMS Infracon Private Limited, C-88 Raj Nagar Ghaziabad (U.P.) India-201002	Testing of materials	102070.00
247.	Dr. Goutam Ghosh	M/s Buildtech India & Co., Sector-16 Ghaziabad (Civil Contractor Engaged by BHEL (TBG), Noida	Testing of materials	18880.00
248.	Dr. Goutam Ghosh	M/s U.P State Bridge Corporation Limited, Lucknow , U.P.-226001	Testing of materials	25960.00
249.	Prof. R. P. Tiwari	The Unit Incharge, U.P. Rajkiya Nirman Nigam Ltd. Rajkiya Allopathic Medical College Unit, Bahraich	Third Party Inspection	354000.00
250.	Prof. R. P. Tiwari	The Executive Engineer, Fatehpur Division Lower Ganga Canal, Fatehpur	Materials Testing	94400.00
251.	Prof. R. P. Tiwari	The Upper Project Manager, U.P. Rajkiya Nirman Nigam Ltd. Rajkiya Allopathic Medical College, Unit, Bahraich	Third Party Inspection	177000.00
252.	Dr. Vivek Kumar Patel	Adhishasi Abhiyanta, Karyalaya Adhishasi Abhiyanta, Nirman Khand, UP Jal Nigam, Kaushambi	Testing & Consultancy	59472.00
253.	Dr. A. K. Sachan	M/s A. M. Contractors Anantnag, Kashmir,	Vetting of Design STP	70800.00
254.	Dr. N. R. Rawal	Mr. Piyush Mishra, Jt. General Manager (Tech.), Iffco, P.O Ghiyanagar, Prayagraj-212404	Testing & Consultancy	10030.00
255.	Prof. Rakesh Kumar	Ikayee Prabhari, Uttar Pradesh Rajkiya Nirman Nigam Ltd., Ikari 10 King George Chikitsa Vishwavidyalay, Lucknow	Third Party Inspection	94400.00

256.	Prof. Rakesh Kumar	Ikayee Prabhari, Uttar Pradesh Rajkiya Nirman Nigam Ltd., Ikayee 10 King George Chikitsa Vishwavidyalay, Lucknow	Third Party Inspection	94400.00
257.	Dr. Kumar Venkatesh	Rites Limited, Sangam Place, Civil Lines Allahabad	Soil Testing	11800.00
258.	Prof. R. P. Tiwari	The Project Manager, C&DS, Unit-55,U.P. Jal Nigam, Fatehpur	Third Party Inspection	156350.00
259.	Prof. R. P. Tiwari	The Project Manager, C&DS, Unit-08, U.P. Jal Nigam, Etah	Third Party Inspection	177000.00
260.	Prof. P. K. Mehta	M/s Anand Buildtech Pvt Ltd, A-119, Sector-63, Noida, Gautam Buddha Nagar, UP. 101301	Proof Cheeking	413000.00
261.	Prof. A. K. Sachan	Chief Executive officer Cant Board Jhansi - 284001	Design of Orshed Building	212400.00
262.	Dr. N. R. Rawal	Dr. Rohit Singh, IDES, Executive Officer, Jhansi Cantonment Board, Jhansi (UP) 284001	Vetting for DPR	265500.00
263.	Dr. R. C. Vaishya	Mr. Abhinav Singhal, Project Manager M/s SPML-PPPL JV F-27/2, Okhla Industrial Area Phase-II, New Delhi-110020.	Vetting of structure drawing of project	236000.00
264.	Prof. A. K. Sachan	M/s. Virendra Constructions Limited Janak Puri, New Delhi-110058	Vetting of Design of 2500 kl OHT and 4300 kl CWR 4300 kl	90000.00
265.	Prof. R. P. Tiwari	The Managing Director, Auto route Infrastructure Pvt Limited	Proof checking of Two Nos. ROB	118000.00
266.	Dr. Goutam Ghosh	M/s U.P. State Bridge corporation Limited Plot No. 16, Pandit Madan Mohan Malaviya Road Lucknow U.P. 226001	Testing of materials	25960.00
267.	Dr. Kumar Venkatesh	AGM (FQA) NTPC SSTPS, Shaktinagar Sonebhadra	Soil Testing	35400.00
268.	Prof. R. P. Tiwari	The Project Engineer, UPRNSS, Construction Division, Prayagraj-1	materials Testing	17700.00
269.	Prof. R. P. Tiwari	The Executive Engineer, CD-4 (Kumbh Mela), P.W.D. Prayagraj-1	Materials Testing	23600.00
270.	Prof. Rakesh Kumar	Additional Project Manager, U.P.R.N.N. Ltd., Prayagraj Unit-2, Benthani Convent School Naini, Prayagraj	Third Party Inspection	94400.00
271.	Dr. N. R. Rawal	Mr. Ranjan Kumar, Manager/C/AP, RITES Ltd. 1st Floor H. No.97 Pesewada Mohalla (Bhaatpuri) Karvi Chitrakoot (UP)	Testing com Consultancy	8850.00
272.	Dr. Kumar Venkatesh	AGM (FQA) Meja TPP (2X660MW) Kohdar, Allahabad	Soil Testing	5900.00
273.	Dr. Kumar Venkatesh	Manager, C/AP RITES Ltd, Chitrakoot	Soil Testing	29500.00
274.	Prof. R. P. Tiwari	JMC Project (India) Limited, 6 th Floor, Kalptaru Synergy, Vakola, Santacruz (East), Mumbai-400055	Proof. Checking of WSS Project,	413000.00
275.	Dr. Kumar Venkatesh	Executive Engineer Rural Engineering Department, Block-Pratapgarh	Investigation for Bearing Capacity	147500.00
276.	Dr. Rama Shanker	Registrar, Veer Bahadur Singh, Purvanchal	Technical	247800.00

	Vishwavidyalay, Jaunpur	Verification of Construction Work	
277.	Dr. Goutam Ghosh M/s Suraj Builders, 702, 7 th Floor, Titanium, Vibhuti khand Gomti Nagar, Lucknow - 226010 U.P.	Testing of materials & Design of concrete	238360.00
278.	Prof. R. P. Tiwari The Project Manager, C&DS, Unit-15, U. P. Jal Nigam, Prayagraj	Third Party Inspection	809353.00
279.	Dr. Shalinee Shukla Sri S. K. Singh, S R Mines and Minerals Company Village: Ghuma P.O. Katra Tehsil: Teothar Distt. Rewa	Testing sample of sand stone	7080.00
280.	Prof. Rakesh Kumar Ikayee Prabhari, Uttar Pradesh Rajkiya Nirman Nigam Limited, Safai Ikayee-02, Etawah	Third Party Inspection	94400.00
281.	Prof. Rakesh Kumar Pariyojna Prabandhak, Unit-15, Construction and Design Services, U.P. Jal Nigam, Banda	Third Party Inspection	118000.00
282.	Prof. Rakesh Kumar Ikayee Prabhari, Uttar Pradesh Rajkiya Nirman Nigam Ltd., Ikayee 10 King George Chikitsa Vishwavidyalay, Lucknow	Third Party Inspection	94400.00
283.	Dr. Navneet kumar Singh M. Satish Kumar, Joint General Manager (Tech) NCC Ltd. Yamuna Vihar Housing Project ADA Colony Near ADA Police booth Naini, Allahabad-211008, U.P	Vetting of electrical design/ drawings	53100.00
284.	Dr. R. C. Vaisha Mr. M. Satish Kumar, Joint General Manager (Tech) NCC Limited Yamuna Vihar Housing Project, ADA colony, Naini, Allahabad	Vetting of Plumbing drawings	200600.00
285.	Dr. R. C. Vaishya M/s Pulkit Projects Pvt. Ltd. 30 MLD STP SITE, Pachahatiya, Jaunpur, U.P. 222002	Vetting of 1. Process Design of 30 MLD STP At Jaunpur,	236000.00
286.	Prof. Rakesh Kumar Adhishasi Abhiyanta, Prantiya Khand Lok Nirman Vibhag, Karvi Chitrakoot	Proof Checking of Design	82600.00
287.	Dr. Goutam Ghosh M/s Daroga Singh Construction Company, Bhusali tola, Prayagraj (U.P.)	Testing of Bricks	8850.00
288.	Dr. Goutam Ghosh M/s Param Jyoti Construction and Trade 17, Industrial Colony, Naini, Allahabad	Mix Design Concrete	94400.00
289.	Dr. Goutam Ghosh M/s U.P. Rajkiya Nirman Nigam Ltd Vesheswaria Bhawan, Gomti Nagar, Vibhuti Khad, Lucknow-226010	Testing of materials	27730.00
290.	Prof. A. K. Sachan M/s Ugrasen Singh Village Ajane, Post Lotan, Distt Siddharth nagar	Design of 100 kl OHT with BOQ	20000.00
291.	Dr. Goutam Ghosh M/s U. P. Rajkiya Nirman Nigam Ltd Vesheswaria Bhawan, Gomti Nagar, Vibuti Khad, Lucknow-226010	Testing of materials	27730.00
292.	Dr. Goutam Ghosh M/s S.R. Constructions UGF-7, EPCON Plaza, Terhi Pulia, Kursi, Lucknow.-226021	Mix Design Concrete	53100.00
293.	Dr. Goutam Ghosh M/s Bhawna Enterprises, Mirapur, Prayagraj	Testing of materials	63130.00
294.	Dr. Goutam Ghosh Uttar Pradesh Jal Nigam Construction and Design Services, Uttar Pradesh Jal Nigam, TC-38-V Vibuti Khand, Gomti Nagar,	Testing of materials	40710.00

		Lucknow-226010		
295.	Prof. R. P. Tiwari	The Executive Engineer, Construction Division, U.P.P.W.D. Kaushambi, U.P.	Soil Testing	226560.00
296.	Prof. R. P. Tiwari	Chief Executive Engineer, Saryu Nahar Project, Ayodhya, U.P.	Soil Testing	735376.00
297.	Dr. V. P. Singh	Executive Engineer, P.D., PWD Moradabad	Investigation	654900.00
298.	Dr. V. P. Singh	Executive Engineer, CD-1 PWD Prayagraj, U.P.	Sub Sili Investigation	979400.00
299.	Prof. R. P. Tiwari	The Project Manager, C&DS, Unit-55, U.P. Jal Nigam Fatehpur.	Third Party Inspection	177000.00
300.	Dr. Goutam Ghosh	M/s U.P. Rajkiya Nirman Nigam Ltd List M C. Unit Vesheswaria Bhawan, Gomti Nagar, Vibhuti Khad, Lucknow-226010 U.P	Testing of materials	11800.00
301.	Dr. Shalinee Shukla	M/s Ranjan Kumar, Manager /C/AP RITES Ltd & M/s TRG Industries Pvt Ltd, E-461, Greater Kailash-II, New Delhi-110048	Testing of Mix materials	14160.00
302.	Dr. Shalinee Shukla	M/s Ranjan Kumar, Manager /C/AP RITES Ltd & M/s TRG Industries Pvt Ltd, E- 461, Greater Kailash-II, New Delhi-110048	Testing of Mix materials	14160.00
303.	Prof. R. P. Tiwari	M/s EMS Infracon Private Limited, House No.-29, Ambedkar Vihar, Chauphataka, Prayagraj	Checking & Vetting of Design of SPS	47200.00
304.	Prof. Rakesh Kumar	Adhishasi Abhiyanta, U.P. Construction Corporation Ltd, 236/174/4, New Mehdauri	Third Party Inspection	118000.00
305.	Prof. Rakesh Kumar	Ikayee Prabhari, Uttar Pradesh Rajkiya Nirman Nigam Ltd., Ikari 10 King George Chikitsa Vishwavidyalay, Lucknow	Testing of House Construction Material	114460.00
306.	Prof. Rakesh Kumar	Ikayee Prabhari, Uttar Pradesh Rajkiya Nirman Nigam Ltd., Ikari 10 King George Chikitsa Vishwavidyalay, Lucknow	Testing of House Construction Material	114460.00
307.	Dr. Goutam Ghosh,	M/s K. B. Superbuild Pvt. Ltd., H-No.2, Gali No.3, Deenagarhi, Hapur Road, Ghaziabad, U.P 201001	Testing of Brick	11210.00
308.	Dr. Goutam Ghosh,	M/s K.B. Superbuild Pvt. Ltd., H-No.2, Gali No.3, Deenagarhi, Hapur Road, Ghaziabad, U.P 201001	Testing of Brick	11210.00
309.	Dr. Shalinee Shukla	Sri Dharendra Pratap Singh, Mukhya Vikas Adhikari, Pratapgarh	Testing of P.C. Coat (Bitumen)Material	5900.00
310.	Dr. Shalinee Shukla	Sri Dharendra Pratap Singh, Mukhya Vikas Adhikari, Pratapgarh	Testing of P.C. Coat (Bitumen)Material	9440.00
311.	Prof. R. P. Tiwari	The Project Manager, UPRNSS. Construction Division, Prayagraj	Materials Testing	67260.00
312.	Prof. R. P. Tiwari	The Additional Project Manager, U.P. Rajkiya Nirman Nigam Ltd. Unit-17, Plot No.-4, Shaheed Path, Gomti Nagar Extension, Sector-7, Lucknow	Third Party Inspection	177000.00
313.	Dr. Goutam Ghosh	M/s U.P. State Construction and Infrastructure Development corporation Ltd. TC/46-V, Vibhuti Khand, Gomti Nagar, Lucknow, U.P. 226010	Testing of materials	39530.00

314.	Dr. Goutam Ghosh	M/s Anand Enterprises Varanasi Sector -19	Testing of Brick	6490.00
315.	Dr. Goutam Ghosh	M/s Daroga Singh Construction Company, 1/2 Bhusali Tola, Prayagraj (U.P.)	Testing of Paver Brick	6490.00
316.	Dr. Goutam Ghosh	M/s Mahesh Sonkar Village Bihamidpur, Deviganj, Sirathu, Kaushambi.	Testing of Interlocking Tiles	6490.00
317.	Prof. A. K. Sachan	M/s Satish Kumar & Co, D-474, Govindpuram, Ghaziabad,	Design of 500 kl water Tank	30000.00
318.	Prof. A. K. Sachan	M/s Nitin Construction Company 9/982, Indira Nagar, Lucknow-226016,	Design of 1600 kl OHT	50000.00
319.	Dr. N. R. Rawal	Indian Institute of Information Technology, Allahabad, Deoghat, Jhalwa, Allahabad-211015 (U.P.)	Testing Com Consultancy	50150.00
320.	Prof. R. C. Vaishya	Er. M.P. Singh, Project Manager Temporary Construction Unit, U.P. Jal Nigam Rampur 14 MLD STP, Ghatampur Rampur	Vetting of the design and drawing	82600.00
321.	Prof. Rakesh Kumar	Pariyojna Prabandhak, Construction and Design Services, Ramjanki Nagar Marg, Post: Basaratpur Gorakhpur	Quality Control	118000.00
322.	Prof. R. P. Tiwari	The Executive Engineer, Rapti Nahar Nirman Khand-2, Tulsipur, Balrampur	Soil Testing	2552576.00
323.	Prof. Rakesh Kumar	Pariyojna Prabandhak, Uttar Pradesh Corporation Limited, Nirman Ikayee-1, Seth Sukhkhumal Road, Sitapur	Third Party Inspection	377600.00
324.	Prof. R. P. Tiwari	The Joint Magistrate/ SDM (Sadar), Gorakhpur	Materials Testing	694430.00
325.	Dr. V. P. Singh	Executive Engineer, P.D., PWD Moradabad, U.P	Geotechnical Inspection	563900.00
326.	Prof. G. P. Sahu	GIAN Co-Ordinator, MNNIT, Allahabad	November 25 2019 to Nov. 2019 (One Week)	59000.00
327.	Prof. R. C. Vaishya	Mr. Ananad P. Sharma C/o M/s Vastukalp Architect Planner & Engineers 520, 1 st Floor Saini Plaza, Vil Choma, H Block Palam Vihar, Gurgaon-122017, Haryana	Proof Checking of Sewerage STP	41300.00
328.	Prof. R. P. Tiwari	The Project Engineer, Vijai Construction (India) Pvt. Ltd.- G.S. Express Pvt. Ltd. (JV) 407-B, Fourth Floor, Cyber Height, Vibhuti Khand, Gomati Nagar, Lucknow	Checking & Vetting of Drawings	118000.00
329.	Dr. Goutam Ghosh	M/s Vinayak kripa Realtors (P) Ltd. 265/316 Old Katra, Allahabad.	Compressive Strength of Concrete Cubes	5900.00
330.	Dr. Goutam Ghosh	Sri S. K. Tripathi, Project Manager, Unit-15, Construction and Design Services, Uttar Pradesh jal Nigam, 11-A, Strachey Road, Basant Vihar Colony (Civil Lines), Prayagraj	Testing of Steel Bar	47200.00
331.	Dr. Goutam Ghosh	Uttar Pradesh Avas Vikas Parishad, 104, Mahatma Gandhi Marg, Lucknow-226001	Testing of materials	11800.00
332.	Prof. R.P. Tiwari	The Executive Engineer, CD-4 (Kumbh Mela), P.W.D.Prayagraj	materials Testing	23600.00
333.	Prof. R. P. Tiwari	The Executive Engineer, CD-4 (Kumbh	materials Testing	23600.00

334.	Prof. R. P. Tiwari	Mela), P.W.D.Prayagraj UPRNN, Kaushambi Unit, Prayagraj	Inspection of materials Testing	11800.00
335.	Prof. R. P. Tiwari	The Civil Group Consultants, 26/28, Ghosh Trust, M.G. Marg, Civil Lines,Allahabad	Checking & Vetting of Material Test and Mix Design	59000.00
336.	Prof. Rakesh Kumar	Upper Pariyojna Prabandhak, Uttar Pradesh Rajkiya Nirman Limited, Varanasi Ikayee-1 Varanasi	Inspection of Building for safety and strength	94400.00
337.	Prof. Anuj Jain	Adhishasi Abhiyanta, Uttar Pradesh Jal Nigam, Karyalaya Adhishasi Abhiyanta, Nirman Khand, Jal Nigam Bharwari	Pressure Test of PVC Pipe	51330.00
338.	Prof. R. P. Tiwari	The Additional Project Manager, U.P. Rajkiya Nirman Nigam Ltd. Unit-17, Plot No.-4, Shaheed Path, Gomti Nagar Extension, Sector-7, Lucknow	Third Party Inspection Quality check	177000.00
339.	Dr. Shalinee Shukla	M/s A. K Gupta & Co. Auraiya, U.P.	Testing of materials	30680.00
340.	Dr. A. R. Paul	M/s Divya Traders, CS 12, Luvkush complex, Phaphamau, Prayagraj	Pressure Test	9912.00
341.	Prof. A. K.Sachan	Apex Infranet Pvt. Ltd, New Delhi,223/6,s.s road-3, Jogabai Okhla, Newdelhi-10025	Design of KloHT 20kl &40klOT	40000.00
342.	Prof. A. K. Sachan	Anand Construction, Gandhi Nagar-Basti-(u.p)272001	Design f 200kl water tank	20000.00
343.	Dr. P. R. Pal	M/s Ferro Edifice Pvt. Ltd Plot no. 591, Dhummanikpur Dadri, Gautam Budh Nagar	Testing of civil structural design of steel building	236000.00
344.	Prof. A. K. Sachan	M/s Royal Engineers, Deputyganj, Hariharpur, Needmatha Lucknow, UP	Design of 150kl water tank	15000.00
345.	Prof. A. K. Sachan	Amit Construction Company Allahabad	Design of 350kl OHT	25000.00
346.	Prof. A. K. Sachan	M/S Narendra Kumar Gupta J. B., K. B Gupta & R. K. Engineers Sales Ltd, Karvi, Chitrakoot	Design of office	30000.00
347.	Prof. A. K. Sachan	M/s Chandel, Contractor Works, Banda (U.P.) 2110001	Design of 275kl OHT	20000.00
348.	Prof. A. K. Sachan	M/s J. P. Enterprises, 10 AJP. Nagar Naini Prayagraj	Design of 50kl OHT	15000.00
349.	Dr. Gautam Ghosh Mr. Naresh	M/s T.R.G Industries Pvt Ltd Kanpur sector- 29, (U.P.)	Testing of Steel Bal	37760.00
350.	Dr. Kumar Venktesh	Dy. General Manager, Power Grid, Prayagraj	Soil Sampling & testing	11800.00
351.	Prof. R. P.Tiwari	The Unit Incharge , U. P. Rajkiya Nirman Nigam Ltd Shravasti unit Shravasti	3 rd party Inspection	177000.00
352.	Prof. R. P.Tiwari	The Unit Incharge, up. Rajkiyanirman niogam Ltd Shravasti Unit Shravasti	3 rd party Inspection	177000.00
353.	Prof. R. P.Tiwari	The Unit Incharge, up. Rajkiyanirman Nigam Ltd Shravasti Unit Shravasti	3 rd Party Inspection	177000.00
354.	Dr. Kumar Venktesh	Manager Civils Rites ltd Allahabad	Testing material	5900.00
355.	Dr. Gautam Ghosh	M/s Samadhan manpower & Engineering,	Testing material	19470.00

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	Mr. Naresh	Naya Katra, Allahabad		
356.	Dr. Rakesh Kumar	UP Nigan Ltd Lucknow Ikayee 10 K.G.M.U Lucknow-226003	3 rd Party Inspection	94400.00
357.	Dr. Rakesh Kumar	UP Nigan Ltd Lucknow ekaai 10 K.G.M.U Lucknow -226003	3 rd Party Inspection	94400.00
358.	Dr. Abhishek kumar	M/s Daroga Singh Construction c/o 1/2 bhusaulitola, prayagraj	Tensile bend & Bending Test	26550.00
359.	Dr. N. R. Rawal	Mr. Arvind Kumar Asst. Engineering office of EE Construction section UP Jal Nigam Prayagraj 212404	Testing com consultancy	20060.00
360.	Dr. Shalinee Shukla	Dr. I. K. Patriya Director(technical) NRRDA, New Delhi	Scrutiny of project proposal of state up PMGSY	320560.00
361.	Dr. Rakesh Kumar - Dr. N. R. Rawal	Ikaai Prbhari UP Rajkiy Nirman Nigam Ltd Ikaai-10 king George Treatment University Lucknow-226003	3 rd Party Inspection	94400.00
362.	Prof. R. P.Tiwari	M/s Akanksha Construction 38/1/135 Lowther Road George town Prayagraj	Quality checks of material	29500.00
363.	Dr. Kumar Venktesh	S.V.N Builders, shop no. 44, Super Market, Anand mandi, Hapur Road, Ghaziabad	Vetting of forced earth wall	41300.00
364.	Dr. Kumar Venktesh	Executive engineer, rural Engineering Department block, Pratapgarh, Prayagraj	Geotechnical for banding capacity	94400.00
365.	Dr. Kumar Venktesh	M/s Kanishka Constrution, Shankargarh, Prayagraj	Soil Testing	5900.00
366.	Prof. A. K.Sachan	Project manager UP Jal Nigam Lucknow	Design of 20KLOHT	20000.00
367.	Dr. Rakesh Kumar	UP Pariyojna Prbandhak UP Nirman Nigam Ltd, Rajkiya Allopathic Medical College, Mereni Road, Banda	3 rd Party Inspection	94400.00
Total				57767057.00



Faculty Induction Programme (August 17, 2019)



IEEE 5th Conference (May 29-31, 2019)

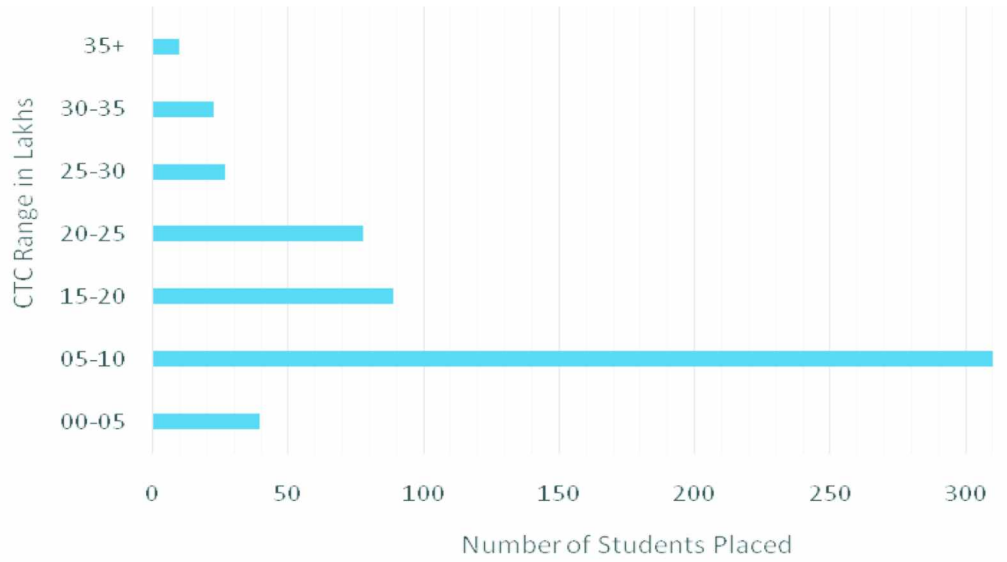


New Year (January 01, 2020)

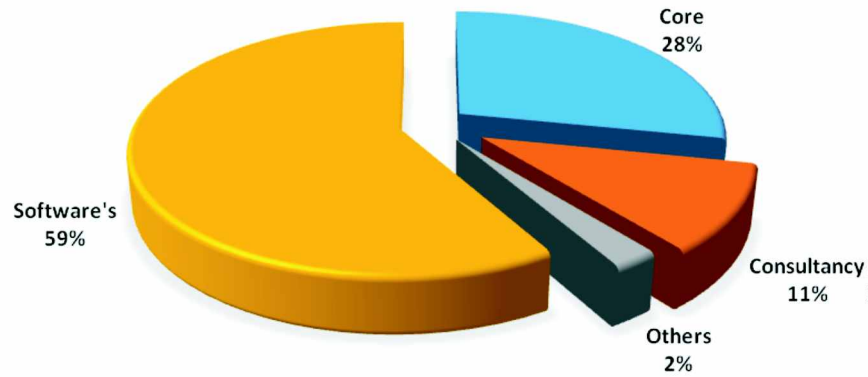


Ciscothing Qbator Launch Event (February 06, 2020)

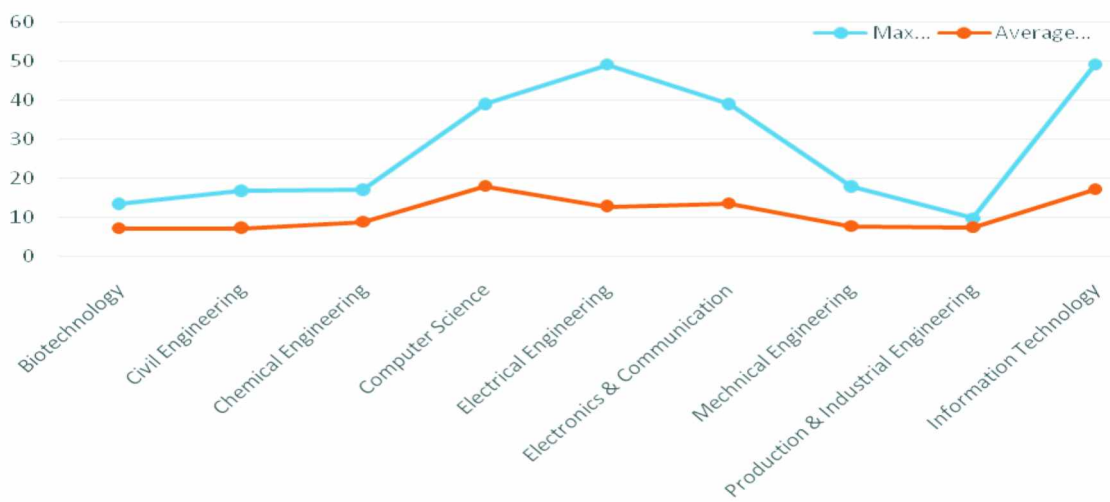
Placement Statistics



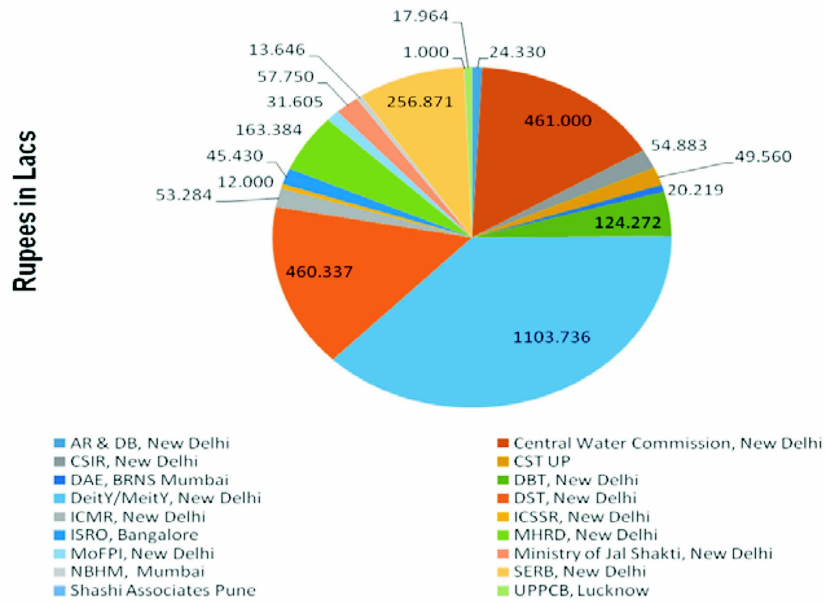
Type of Recruiting Companies



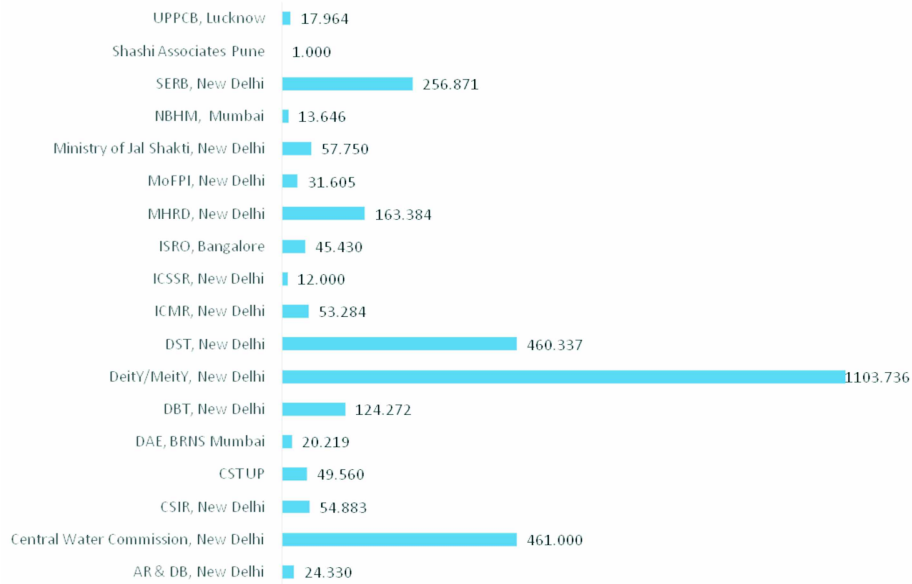
Branchwise Maximum & Average CTC Offered



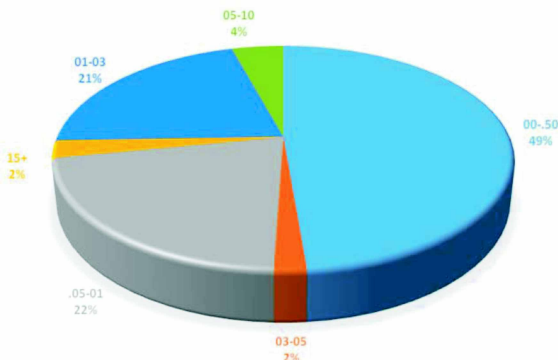
Ongoing Research Projects, According to Funding Agency



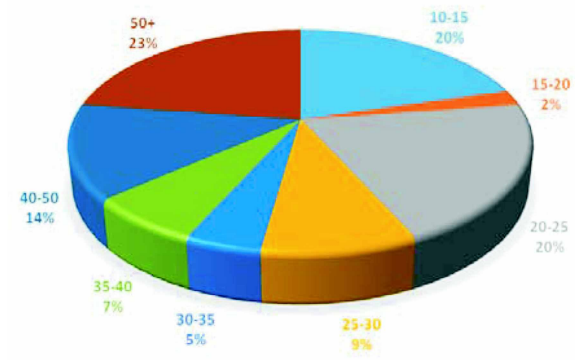
Funding Agency Wise Total Cost of Projects

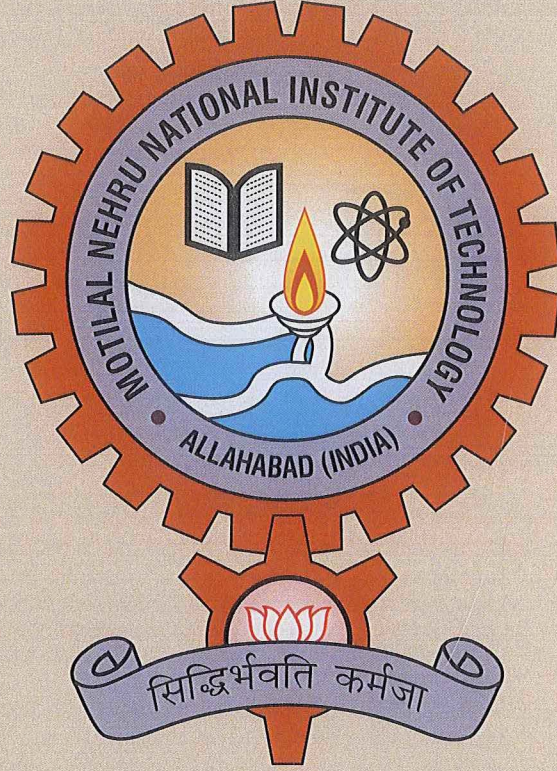


TESTING & CONSULTANCY PROJECTS (VALUE IN LAKHS)



Research Projects (Value in Lakhs)





मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद
प्रयागराज-211 004
भारत

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