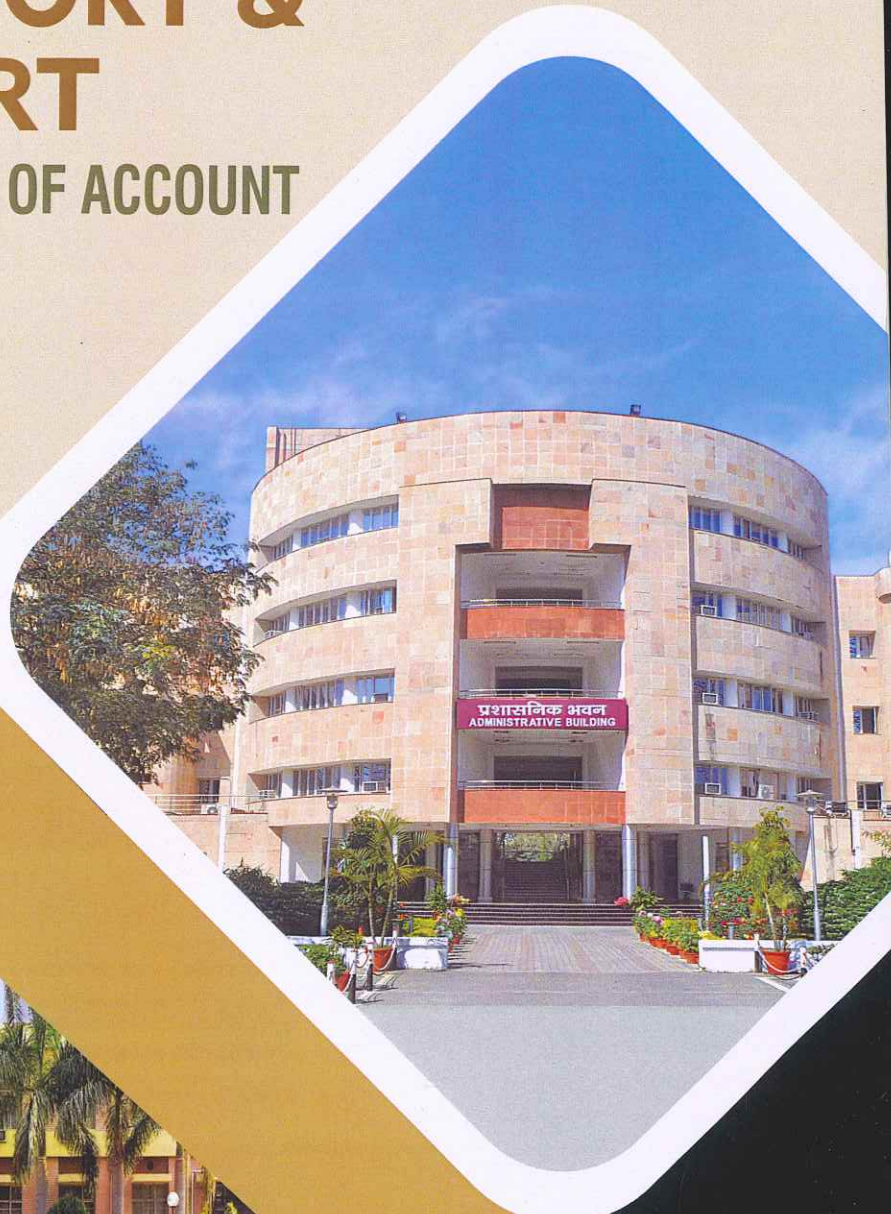




# ANNUAL REPORT & AUDIT REPORT WITH AUDITED STATEMENT OF ACCOUNT 2021-22



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

**ANNUAL REPORT & AUDIT REPORT**  
**WITH**  
**AUDITED STATEMENT OF ACCOUNT**  
**2021–22**



**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'.



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**THE INSTITUTE**

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- 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 Student Activity Centre**
- 2.11 Training and Placement**
- 2.12 Status of Backlog Vacancy Year 2021-22**



## 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 08 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 20<sup>th</sup> 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 Prayagraj 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 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-charges for various functions, Registrar, other officers and various Committees.

## 2.5 ACADEMIC PROGRAMMES

The Institute offers eight 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, MoE.

### 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 has sanctioned seats of 1074 students through JEE (Mains) and 252 through DASA programme to 8 undergraduate programmes, 595 students to various M.Tech. programmes, 116 to MCA, 77 to MBA, 29 in M.Sc. In addition, 129 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, Afganistan 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 STUDENT ACTIVITY CENTRE (SAC)

Motilal Nehru National Institute of Technology Allahabad has been known for its academic excellence. The students of this institute keep raising the bar for themselves by proving to be a step ahead of the crowd, time and again in all activities. The institute has records of achievements in curricular as well as in extra-curricular activities. An extremely crucial role is played by the Student Activity Centre (SAC) of the Institute in facilitating the activities and

reaching out to the students under the supervision of the President SAC. The prime locations of the SAC are Students' Clubs, Boys' SAC and Girls' SAC, Multipurpose Hall, Athletics Ground, Gymkhana and other locations. The student activity center hires pool of part-time coaches/trainers for various events on yearly basis to groom the talents of the students.

### Gymkhana

Gymkhana is a student governed organization that cultivates leadership, encourages students to participate in outdoor activities, and provides facilities for games and sports. The members of the faculty and staff monitor activities of Gymkhana and help students in organizing and managing their sports events. Gymkhana provides facilities for out-door games like Athletics, Cricket, Football, Volleyball, Hockey, Basketball, Martial Arts, Lawn Tennis, Kabaddi, Kho-kho, Yoga, Skating, Karate, etc. and indoor games like Badminton, Table Tennis, Carrom, Chess, Gym etc.

Each game and activity is looked after by the Student representatives and a Faculty coordinator. All the Games, Athletics and Yoga events are organized with the assistance of SAS officer under the Gymkhana. All other activities such as Cultural/Technical/Literary/SPIC-Macay events are managed by the SAC. There is a Faculty In charge for all the above activities.

### Students' Activity Center & 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. Each activity/club is looked after by a Faculty Coordinator. The committees of students are elected under the supervision of Faculty In-charges and President SAC.

Each annual event is organized by a committee of faculty members. A student committee is also formed for successful organization of the event.



### Activities Organized by SAC

Following events had been organized during the period April 01, 2021 to March 31, 2022 by the SAC, MNNIT Allahabad.

Various SAC activities in the Institute is divided into following eight major heads.

1. Literary and Personality Development Activities.
2. Technological Activities.
3. Cultural Activities.
4. Indian Classical Activities.
5. Sports (Indoor & Outdoor) Activities.
6. Athletic & Gym. Activities.

7. Yoga Activities.
8. Ministry of Education Activities.

Each activity is looked after by a faculty Incharge and faculty coordinators. Further students committee is formed to run the activities of the concerned club.

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)

### EXTRA-CURRICULAR ACTIVITIES

Sl. No.	Name of the Festivals/ Events	Events Date
1.	Culrav (online)	April 02-05, 2021
2.	Independence Day Quiz, Chess etc (online mode)	August 14-15, 2021
3.	Hindi Pakhwada (Kavya Sandhya) online mode	September 20, 2021
4.	Fit India Freedom Run 2.0	October 02, 2021
5.	Vigilance Awareness Week – 2021(MoE) Onlinemode	Oct 26 to Nov 01, 2021
6.	Constitution Day (Online)	November 11, 2021
7.	Journey Ganga Mashaal: 2021	November 13, 2021
8.	Swarnim Vijay Mashaal	November 23, 2021
9.	Avishkar & Gnosomania “online mode” (Annual Techno-management festival)	December 26-29, 2021
10.	Personality Development Workshop online mode	February 26-28, 2022

The Institute also witnessed Annual cultural festival Culrav-2021 (Online) from April 02-05, 2021 with a wide variety of cultural events. The Culrav was inaugurated on 02-04-2021 (Friday) evening through MS Teams with Live telecast to all users of MNNIT (Live mode of MS Teams software). Prof. Rajeev Tripathi, Director, MNNIT Allahabad, and many faculty members, staff members and students with online presence viewed the online inauguration. The inauguration was followed by the student performances. The Kavya Sandhya and Felicitation Ceremony, of Culrav was held on 05-04-2021, Monday, which was followed by closing of the Culrav. Renowned Poet Mr. Sudeep Bhola (Sudeep Soni), Poet Mrs. Ankita Singh and Poet Dr. Shlesh Gautam, performed with their mesmerizing performance, alongwith the in-house student poets. Prof. Rajeev Tripathi, Director, addressed the students with his words

of wisdom and appreciated the organising team for successfully conducting the online fest in these challenging times, second time in the Institute.

The Institute Annual Techno Management Festival, Avishkar-2021 (Avishkar+Gnosomania) was scheduled during December 26-29, 2021 as per Institute Academic Calendar. During this current pandemic situation, following Government guidelines as advised from time to time in this situation, to be self-motivated and making young minds refresh their technical and management skills to participate in the technical management competitions and making them feel connected, Team Avishkar decided to conduct Avishkar-2021 via online mode. Organizing Institute technical festival in online mode was a new and innovative idea and organized for the second time in online mode in our Institute. It

was first time to conduct a technical festival online in the institute. The Avishkar was inaugurated on 26.12.2021 (Sunday) evening through MS Teams with Live telecast to all users of MNNIT (Live mode of MS Teams software). Prof. Rajeev Tripathi, Director, MNNIT Allahabad, Chief Guest of the inauguration Padma Vibhushan Dr. Vasudev K. Aatre and many faculty members, staff members and students with online presence of more than 1200 attendees viewed the online inauguration. The inauguration was followed by the gnoTalks session by the Senior Scientist Dr. Vasudev K Aatre. The second day of Avishkar saw Mr. Anil Swarup, former School Education & Literacy Secretary of India and author, who inspired students with his experiences and words of wisdom. The events received huge participation from all the students full of enthusiasm and the willingness to learn and explore.

The third day of Avishkar was no different with the homecoming of our former alumni Mr. Ahmed Mazhari, who is currently the president of Microsoft Asia. He insisted students to invest themselves in the system and education. He further reminisced about his years spent in MNNIT and quoted them to be the best years of his life.

The final day of Avishkar was lined up with GnoTalks who welcomed Padma Shri Prakash Baba Amte, Actor and Youtube personality Badri Chavan popularly known as Inzy Bhai, and Youtuber Satish Ray popularly known as Imaandar Sharma. Leaving the audiences motivated and elated, Gnotalks 2020 came to its conclusion.

Personality Development workshop (February 26-28, 2022 online mode)

### 1. Inquization

- Pionel Pepsi - Naman Verma and Shashwat Mehrotra
- The QuizHeads - Nikunj Gagrani, Shashank Shivam, Sanjay Dutta
- Sherlock's Homies - Alaukik, Saksham Jain, Vaibhav Mehrotra

### 2. Hindi Debate

2<sup>nd</sup> Runner-up :- Team College Khulwao Sangathan

- Harsh Kumar Tiwary
- Snehal Tripathi
- Aman Shankar Singh

Runner-up :- Team शिखर

- Tavishi Vashishtha
- Abhinav Pandey
- Bhargavi Arya Shukla

Winner :- Team Har harf hisabi

- Ananya Jain
- Pratibha Pathak
- Pragya Tripathi

### 3. English Debate

2<sup>nd</sup> Runner up:- Kingpin

- Janhavi Rai
- Arun Kumar Yadav
- Jaideep Murthy

Runner up:- Xylene

- Tavishi Vashishtha
- Aviral Gupta
- Bhargavi Arya Shukla

Winner:- Word Ninjas

- Priyadarshiny Pandey
- Ananya Jain
- Adya Agarwal

### 4. English Story Writing

- Winner - Manasvi Pathak
- Runner up - Vaibhav Mehrotra
- Second Runner up - Shashwat Mehrotra
- Special Mention: Kunwar Aridaman Singh

### 5. Hindi Story Writing

- Winner - Isha Vishwakarma
- Runner Up - Chitra Ojha
- Second Runner Up - Aditya Singh Yadav
- Special Mention - Anupriya

### 6. English Poetry

- Winner - Dinglo Kodak
- Runner up - Souvik Das
- Second Runner up - Aparajita Singh

## 7. Hindi Poetry

- Winner - Rahul Narayan
- Runner Up - Utkarsh Kumar
- Second Runner Up - Kamal Kishan Tiwari

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 Online in the following events:

- Event Mandakini (Astronomy event online) under Techkriti' 21 April 06-07, 2021.
- Astro Treasure Event online at Techkriti IIT Kanpur April 07-20, 2021.
- Astronomy Quiz Event at Technex online IIT BHU, April 09-20, 2021.
- War of the world event at Astrax Online IIT Mandi May 10-16, 2021.
- Springfest online at IIT Kharagpur

Following are the brief achievement of the students in the various inter-Institute online events attended

Sl. No.	Event	Performance
1.	Event Mandakini (Astronomy Event Online Mode) (April 06-07, 2021)	Won Gold Medal
2.	Astro Treasure Event Online Mode at IIT Kanpur (April 07-20, 2021)	Won the Bronze Medal
3.	Astro Treasure Event Online Mode at IIT Kanpur (April 07-20, 2021)	Won the Silver Medal
4.	Astronomy Quiz at Technex Online Mode IIT BHU (April 09-20, 2021)	Bagged Silver Medal

- War of the world Event at Astrax Online Mode IIT Mandi (May 10-16, 2021) Won Silver Medal
- Gordion Knot at Astrax Online Mode IIT Mandi (May 11-18, 2021) Won Gold Medal and Silver Medal
- Springfest Chef 's Corner Online Mode IIT Kharagpur 1<sup>st</sup> Position
- Springfest Top it to win it Online Mode IIT Kharagpur 2<sup>nd</sup> Position
- Excelsior Tips Online mode IIT (ISM) Dhanbad 2<sup>nd</sup> Position
- Springfest India Calling Online Mode IIT Kharagpur 3<sup>rd</sup> Position Sneha Singh
- Excelsior operation Campas Online Mode IIT (ISM) Dhanbad 1<sup>st</sup> Position Suhail Shabaj
- Springfest National Level Debate Online Mode IIT Kharagpur 2<sup>nd</sup> Position
- Springfest India Calling Online Mode IIT Kharagpur 1<sup>st</sup> Position
- Springfest Poetry slem Hindi Online Mode IIT Kharagpur 2<sup>nd</sup> Position
- Springfest Brand-D Online Mode IIT Kharagpur 3<sup>rd</sup> Position
- Springfest Dumb C Online Mode IIT Kharagpur 1<sup>st</sup> Position (Anirban Banerjee Gurvinder Singh, Virat Singh)
- Excelsior operation Campas II (ISM) Dhanbad 1<sup>st</sup> Position (Mohammed Abdul Khadar)
- Excelsior Expressions IIT (ISM) Dhanbad 1<sup>st</sup> Position (Mohammed Abdul Khadar)

## 2.11 TRAINING AND PLACEMENT

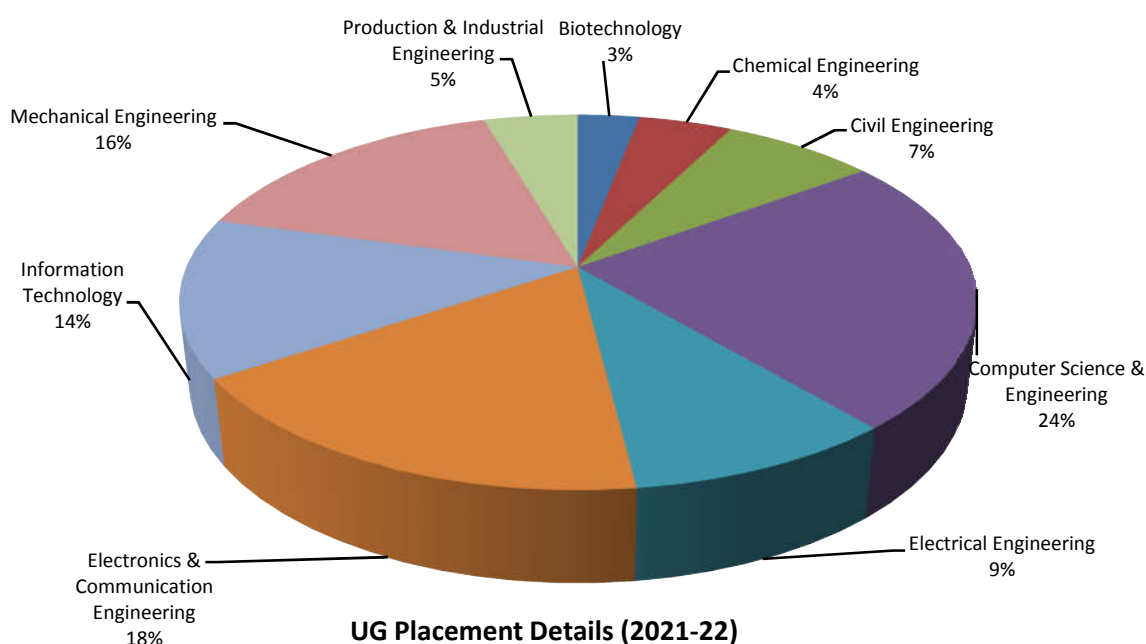
### B.Tech. Courses

Course	Branch	Eligible Students	Total Placed	Percentage placed
B.Tech.	Biotechnology	24	23	95.83
	Chemical Engineering	39	35	89.74
	Civil Engineering	65	57	87.69
	Computer Science & Engineering	186	183	98.39
	Electrical Engineering	71	71	100
	Electronics & Communication Engineering	140	135	96.43
	Information Technology	109	105	96.33

Mechanical Engineering	135	124	91.85
Production & Industrial Engineering	36	35	97.22
<b>Total</b>	<b>805</b>	<b>768</b>	<b>95.4</b>

**Master Courses**

Course	Eligible Students	Total Placed	Percentage Placed
MBA	43	41	95.34
MCA	94	79	84.04
M.Tech.	426	208	48.83
M.Sc.	23	4	17.39



**2.12 STATUS OF BACKLOG VACANCY YEAR 2021-22**

Name of Institute	Total Sanctioned Post	Backlog status (2021-22) (As on 31.03.2022)						Reason for such Backlog
		GEN	OBC	SC	ST	EWS	Total	
MNNIT Allahabad	<b>Teaching Staff</b>							The Institute is conducting the recruitment process regularly, and a large number of candidates has been recruited through these process. At present, all vacant posts including backlog has been advertised through Advt. No. 02/2022, dated 24.05.2022, the same is under process
	362	-	19	15	10	-	44	
	<b>Non-Teaching Staff</b>							
	No Backlog Vacancies exists in Non-Teaching Staff Under Direct Recruitment							

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## GENERAL FACILITIES AND SERVICES

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- 3.1 Computer Centre
- 3.2 Mechanical Workshop
- 3.3 Laboratories
- 3.4 Centre for Interdisciplinary Research [CIR]
- 3.5 Central Library
- 3.6 School for Non-Formal and Continuing Education [SNFCE]
- 3.7 Intellectual Property Right Cell [IPR Cell]
- 3.8 NCC and NSS
- 3.9 Institute Health Centre
- 3.10 Vehicle Section
- 3.11 Women Grievance Cell
- 3.12 Alumni
- 3.13 Canteen
- 3.14 SC/ST Cell
- 3.15 Reservation Cell
- 3.16 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 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup> and 8<sup>th</sup> 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

1. Experimental Solid Mechanics PG Laboratory
2. Biomedical Engineering PG Laboratory
3. Materials Development PG Laboratory
4. Fluid Engineering PG Laboratory
5. Computational PG Laboratory
6. Strength of Material Laboratory
7. Material Science & Engineering Laboratory
8. Fluid Mechanics & Hydraulic Laboratory
9. Structural Analysis Laboratory
10. DST-FIST Computational Laboratory
11. Departmental Workshop
12. Engineering Mechanics Laboratory
13. Fluid Research Laboratory
14. Solid Mechanics Research Laboratory
15. Material Research Laboratory
16. Dynamic of Machine Laboratory
17. Compressible Flow Laboratory
18. Vibration Laboratory
19. Robotics Laboratory
20. Experimental Stress Analysis Laboratory
21. Non Destructive Testing Laboratory

#### Biotechnology

1. Laboratory-I
2. Laboratory-II
3. Bioinformatics Laboratory
4. Green house Laboratory
5. Experimental field Laboratory
6. Central Instrumentation facility

#### Civil Engineering

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



### **Chemical Engineering**

1. Chemical Reaction Engineering Laboratory
2. Chemical Technology Laboratory
3. Computer Aided Design Laboratory
4. Environmental Engineering Laboratory
5. Fluid Particle Mechanics & Mechanical Operation Laboratory
6. Mass Transfer Laboratory
7. Process Dynamics & Control Laboratory
8. Chemical Engineering Laboratory (M.Tech)

### **Chemistry**

1. Undergraduate Chemistry Laboratory
2. Research Laboratory-I
3. Research Laboratory-II
4. Research Laboratory-III

### **Computer Science and Engineering**

1. Computing Laboratory
2. Database/Data Mining Laboratory
3. SOA/Distributed Computing Laboratory
4. Embedded System/ Real Time System Laboratory
5. Computer Architecture / Microprocessor Laboratory
6. Computer Network / Wireless Network Laboratory
7. Image Processing/ Computer Vision Laboratory
8. Software Testing Laboratory
9. Verification & Validation Laboratory

### **Electrical Engineering**

1. Measurement & Instrumentation Laboratory
2. Electrical Machine Laboratory
3. Control System Laboratory
4. Power System & High Voltage Laboratory
5. Computer & Simulation Laboratory
6. Virtual Instrumentation Laboratory
7. Power Electronics Laboratory
8. Departmental CRU Laboratory

### **Electronics & Communication Engineering**

1. Basic Electronics Laboratory
2. Advanced Electronics Laboratory
3. VLSI Laboratory
4. Computer Architecture Laboratory
5. Communication Laboratory
6. DCN Laboratory
7. Project and PCB Laboratory

8. Microwave Laboratory
9. Param Laboratory

### **Mechanical Engineering**

1. Engineering Graphics Laboratory
2. Machine Design and Drawing Laboratory
3. Computer Aided Design Laboratory
4. Mechatronics and Control Laboratory (Renaming of Mechatronics and Virtual Instrument Laboratory)
5. Materials Testing and Characterization Laboratory (Merging of Machine Element Lab and Material Characterization Lab)
6. Product Development Laboratory
7. Rotor dynamics & Diagnostics Laboratory
8. Foundry, Forming and Plastic Laboratory
9. Advanced Manufacturing Laboratory
10. Machine Tool & Advanced Machining Laboratory
11. Computer Aided Manufacturing Laboratory
12. Industrial Engineering Laboratory
13. Measurement and Metrology Laboratory (Merging of Instrumentation and Metrology Laboratory)
14. Composite Manufacturing Laboratory
15. Additive Manufacturing & Rapid Prototyping Laboratory
16. Heat and Mass Transfer Laboratory
17. Solar Energy Laboratory
18. Internal Combustion Engine Laboratory
19. Automobile Engineering Laboratory
20. Steam Power Engineering Laboratory
21. Refrigeration & Air Conditioning Laboratory
22. Industrial and Engine Tribology Laboratory (Renaming of Mechanical System Design Laboratory)
23. Computational Research Laboratory
24. Product Design & Manufacturing Laboratory

### **Physics**

1. Undergraduate Physics Laboratory-I
2. Undergraduate Physics Laboratory-II
3. Research Laboratory

### **SMS**

1. Systems Laboratory
2. Behavior Dynamics Laboratory
3. Research Scholars Laboratory

### **HSS**

1. Language Laboratory

**GIS Cell**

1. Geo Informatics Laboratory

**3.4 CENTRE FOR INTERDISCIPLINARY RESEARCH (CIR)**

The Centre for Interdisciplinary Research (CIR) was established in 2012 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 Institute is to provide the best research and analytical facilities for its entire undergraduate, postgraduate, research scholars and faculty. With this vision the CIR is being established in the Institute. In addition to serving the Institute, the Centre also welcomes researchers all over the country to use the facility at nominal cost. The Centre also looks forward for collaborative research program with other leading Technical Institutions/ Universities and Research laboratories. The functioning of CIR is being coordinated by a core committee constituted by the Director. The members of the core committee are as follows:

- |   |             |
|---|-------------|
| 1. Prof. Vijaya Bhadauria   | Chairperson |
| (Professor, ECED)   |             |
| 2. Dean [R&C]   | Member      |
| 3. Dean [P&D]   | Member      |
| 4. Dr. Naresh Kumar   | Member      |
| (Associate Professor,<br>Dept. of Physics.),<br>Faculty In-Charge CIR |             |

**The objective of the centre is:**

1. To house all high-end sophisticated research equipments at a central place to avoid duplication in individual departments.
2. To promote cross-disciplinary research.
3. To provide the state-of-art facility for the young scientists to carry out their research work smoothly and simultaneously to promote intellectual property rights (IPR) in the related field of technology.
4. To encourage research projects aimed towards the development of new devices, techniques and tools.

5. To design and develop device prototypes for possible commercialization

**3.5 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 225 readers can be accommodated at a time, a Stack-room of 470.42 sq.m having a collection of about 1,05,032 (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 5581 (approx) active member.

**Working Hours**

The working hours of the library are from 9:00 am to 08:00 pm and the circulation section is open between 09:30 am to 07:30 pm on weekdays. On Saturday/Sunday the working hours of the library are from 9:00 AM to 08:00 PM, the circulation section is open between 09:30 AM to 07:30 PM. During the examination period, the working hours of the library are from 9:00 AM to 12:00 midnight. A total of 2343 books were transacted by the readers in the library between the year 2021-22.

**Collection as on 31.3.2021**

Bound periodicals	17,651
Books	1, 05,032
E Books	19,713

**E-Resources**

E- Journals and Database (Subscribed by Library)	11,182
E-Resources (Available through eSS)	3,647
IEEE Conference Proceedings	29,508
IEEE Standards	7,998

### **News Paper and Magazine**

News paper corner is located First floor in the Library. The Library subscribes 16 newspapers (10 Hindi + 06 English) 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 text books available to them from the Book bank for largest duration. Due to the Corona pandemic, lockdown & closure of classes, TLB books were not distributed in the year 2021-22.

### **SC/ST Book Bank**

Books are given for one semester under the Centrally Sponsored Scheme for SC/ST students of UG. Under this scheme no rent is charged from the SC/ST students. Due to the Corona pandemic, lockdown, and closure of classes, books of SC/ST Bookbank were not distributed in the year 2021-22.

## **3.6 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 along with 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.

### 3. 7 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 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 (11<sup>th</sup>) 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) IPR policy of the Institute has been approved by the Board of Governors and uploaded on the website.

#### Achievement during 2021-22

- (i) During 01.04.2021 to 31.03.2022 IPR Cell checked 90 Ph.D Thesis.
- (ii) The Institute has filed Forty Seven (47) patents and one (1) copyright till date, out of which Five (05) patents have been filed in the year under report.
- (iii) (06) Patents and (01) Design are granted to the Institute, out of which 03 patents were granted in the year 2021-22. Details are as follow:-

Sl. No.	Name of Faculty	Title	Application No.	Date of filling
1.	Dr. Sadhana Sachan Dr. Mohammad Siraj Alam Mr. Kaushal Kishor Mr. Abhishek Kr. Chandra Mr. Wasim Khan	Gas-liquid absorption in microchannel	201611043489	28.05.2021
2.	Ms. Jyoti Singh Dr. Seema Nara Dr. Shivesh Sharma	Method of simultaneous detection of e. coli and salmonella species by gold nanoparticle based lateral flow immunoassay	3215/Del/2015	24.06.2021
3.	Prof. P. Chakrabarti Ms. Priti Singh Dr. Sunil Kumar Singh	Electrochemical process of immuno-based thionine doped nanosilica electrode modification and its use as an enzymatic sensor for electrochemical detection of platelet hyperactivity	1687/Del/2015	31.08.2021

- (iv) A very noteworthy achievement is that one Technology Transfer Memorandum of Understanding (MoU) have been signed.

### 1. Herbal Formulation

Motilal Nehru National Institute of Technology Allahabad, Prayagraj signed Memorandum of Understanding (MoU) with Wyton Pharmaceuticals & Agrotech Private Limited Lucknow on November 25, 2021. A Technology for developing two different herbal formulation was developed by Devendra Singh, Research Scholar under the guidance of Dr. Vishnu Agarwal, Head, Department of Biotechnology MNNIT Allahabad. This novel drug is not only effectively helpful in treating bacterial infections caused by different bacteria but also has anti-biofilm and anti-quorum activity, which hinders

the bacterial biofilm and bacteria torque mechanism. The scientifically tested and well proven formulation claims to treat the infections caused by wide variety of bacteria effectively. This is the first and only formulation available in market which has scientifically proven anti-biofilm and anti-QS activity.

### Following is the Constitution of the IPR Cell :

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

### Patent Filed in 2021-22

Sl. No.	Name of Faculty	Title	Application No.	Date of filling
1.	Prof. R.P. Tewari Dr. Ramesh Pandey Dr. Ashutosh Mishra Dr. Abhishek Kumar Tiwari Mr. Sajal Kumar Babu Degala	A Smart Temperature Measuring System With Minimal Human Intervention	202111020581	05.05.2021
2.	Dr. Sangeeta Negi Mr. Ajay Kumar Pandey	Detox Candle for on-site Detoxification of Lignocellulose Hydrolysate and Method of Fabrication Thereof	202111033291	23.07.2021
3.	Ms. Roma Agrahari Dr. Radha Rani	A Process for the Treatment of Dye-Contaminated Wastewater and Simultaneous Bioelectricity Generation	202111036172	10.08.2021
4.	Prof . Rajesh Gupta Mr. Ajeet kumar Bhardwaj Mr. Anil Kumar Mr. Aman Kumar	A Portable Photovoltaics Powered Standalone Hybrid Power Supply System with Multi-Port Connectivity for Disinfection Devices	202111046806	13.10.2021
5.	Dr. Dushyant Kumar Singh Prof. Dharmender Singh Kushwaha	An Artificial Intelligence Based Enhanced Surveillance System and Method	202111057419	09.12.2021

### 3.8 NCC AND NSS

#### National Cadet Corps (NCC)

Sl. No.	Activity/ Programme	Duration/ Date
1.	Essay and Poster Design Competition	05.04.2021
2.	Freedom Run Programme	13.08.2021 - 02.10.2021

3.	Swarnim Vijay Mashaal	23.11.2021
4.	Candle March [Candle march by cadets to pay tribute to General Bipin Rawat]	21.12.2021
5.	Enrolment	30.12.2021
6.	CATC Camp	30.01. 2022-05.02.2022
7.	B Exam-2022	06.02.2022



8. C Exam-2022	06.03.2022
9. SwachhataShapath	07.03.2022

### **National Service Scheme (NSS)**

1. NSS volunteers participated in lecture program organized on July 10, 2021 (Lecture Title: Indian philosophy and present world).
2. NSS volunteers participated in lecture program organized on August 14, 2021 (Lecture Title: Indian culture & present youth).
3. NSS volunteers participated in Lecture Program organized on August 15, 2021 (Lecture Title: Sustaining human values on the path of progress).
4. NSS volunteers participated in Lecture Program organized on October 14, 2021 (Lecture Title: Career prospects for engineering students).

### **3.9 INSTITUTE HEALTH CENTRE**

It is an out-patient centre catering the medical need of approximately 5000 students and all faculty members, staff and 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**

1. Consultation & Dispensing of medicines to students, faculty staff & their dependents.
2. Special facilities of E.C.G. & Routine Pathological testing.
3. Services of Dental surgeon, Specialist Skin, ENT, Pediatrics, Orthopedic, Psychiatrist etc are available on different days for Two hours.
4. Homeopathic medicines are being provided under consultation of Homeopathic Consultant.
5. Ayurvedic medicines are being provided under consultation of Ayurvedic, Consultant.
6. Male & Female Physiotherapist is available for all types of physiotherapy.
7. Organize different camps like blood donation camps, awareness of diseases

like Hepatitis, AIDS, Asthma, Diabetes, and Arthritis ETI.

Presently all the works at Health 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  
Dr. Shirley Paulson                      General Physician

#### **Part Time Specialist Doctors**

Dr. Nishant Nigam                      Skin Specialist  
Dr. S. K. Agarwal                      E.N.T. Surgeon  
Dr. R. N. Mehrotra                      Pediatrician  
Dr. Puneet Upadhyay                      Dental Surgeon  
Dr. Pushkar Nigam                      Neuron Physician  
Dr. Avinash Jaiswal                      Orthopedic

#### **Part Time Homeopathic Doctor**

Dr. Seema Gupta Sahu

#### **Part Time Ayurvedic Doctor**

Dr. Sanjay Baranwal

#### **Psychiatrist & Counsellor**

Dr. Kamlesh Tiwari

#### **Physiotherapist**

Mrs. Deepit Yogeshwar  
Mr. C. Mohd. Soheb

#### **Pharmacist**

Mr. Vinod Kumar Mishra  
Mr. R. K. Nirbhay

All pharmacists are managing dispensing of medicines.

Two Nurses are also there to General doctors Specialist Doctors and carryout other miscellaneous works.

Medical Assistant, Attendants & Ambulance besides regular staff, 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



### 3.10 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
Car	03

#### Facilities Provided

- (i) Bus facility is provided to all Girls students from Hostels to academic campus dropping and picking during Classes time for Monday to Saturday.
- (ii) 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, NCC and NSS camps.
- (iii) Bus facility is provided to wards of staff and faculty members to some select schools on select routes on subsidized rates.
- (iv) Vehicles are also provided for any official visit based on the approval given by the competent authority.
- (v) 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.
- (vi) 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

1. Bus facility is provided to all Girls students from Hostels to academic campus on following route and schedule:

From KNGH	From Admin Building
8:45 AM	12:05PM
9:45 AM	01:05PM
1:45PM	5.10PM

2. Bus facility to the students is provided outside of campus 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).  
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
2.	19:30 hrs	20:00 hrs
3.	20:30 hrs	21:30 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.

### 3.11 WOMEN ADVISORY CELL AND ICC

Internal Complaints Committee and Special Cell have been constituted in accordance with the guidelines issued by Government of India to consider complaints related to any sexual discrimination/ harassment of woman in the Institute. 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.

#### 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. Internal Complaints Committee and Special Cell information is also displayed on Institute Website.

As per section 4 of the Sexual Harassment of Women in Workplace (Prevention, Prohibition and Redressal), Act 2013, for handling the grievances of complaints against any kind of Sexual discrimination/harassment in the Institute.

#### Internal Complaints Committee [ICC]

Sl. No.	Name	Designation
1.	Prof. Shubhi Purwar Professor, EED	Presiding Officer
2.	Prof. V. K. Srivastava Professor, ECED	Member
3.	Dr. Seema Nara Associate Professor, Biotechnology	Member
4.	Dr. Shashwati Banerjee, Assistant Prof., CSED	Member
5.	Mrs. Manisha Yadav, Assistant Registrar [Director Office and R&C Office]	Member
6.	Dr. Vineeta Singh, Sahayogg, NGO, Allahabad	External Member

In compliance to Ministry of Education letter F. No. 18-2/2022-U.5 dated 09.03.2022 and the Sexual Harassment of Women at workplace (Prevention, Prohibition and Redressal) Act, 2013, a Special Cell with following members is hereby constituted to deal with any issue of gender sensitization based violence and to conduct gender sensitization programme in the Institute

#### Special Cell (SC)

Sl. No.	Name	Designation
1.	Prof. Shubhi Purwar Professor, EED	Chairperson
2.	Prof. Anjana Pandey Professor, Biotechnology	Member
3.	Prof. Sadhana Sachan Professor, Chemical Engineering	Member

4. Dr. Tripti Singh, Member  
Associate Professor, SMS
5. Mrs. Manisha Yadav, Member  
Assistant Registrar  
[Director Office]

In the year under report 7 meetings were held to deal with various issues. A total of 01 complaint was received from student against stalking by fellow student. The matter was investigated and further sent to proctor board for action. The Proctor board took action vide Office Order no. 492/CP/PB/2021 dated 17/11/2021. The female student was satisfied and no further complaints were received.

#### 3.12 ALUMNI

Activities organized by Alumni Association during 1<sup>st</sup> April 2021 to 31<sup>st</sup> March, 2022:

##### Executive Committee Meetings

The following meetings were held as per the existing Bye-Laws of the Association:

1. The Fifth Executive Committee Meeting was held on August 28, 2021 via Online Mode.
2. The Sixth Executive Committee Meeting was held on January 08, 2022 via Online Mode.

Asphalt base, retaining wall/ toe wall, drainage and 8-layer acrylic flooring system for outdoor courts of Tennis & Basketball sports with dimension approx. 1224 sq. mt.

- (i) MNNIT Alumni Association on November 30, 2021 had completed the above mentioned works by M/s Desan International, Delhi at the total cost of Rs. 21, 01,814.00.
- (ii) MNNIT Alumni Association on November 30, 2021 had completed the above mentioned works by M/s Desan International, Delhi at the total cost of Rs. 5, 90,497.00.

##### Azadi ka Amrit Mahotsav – 2021

On the "Azadi ka Amrit Mahotsav" Aug 15, 2021 MNNIT Alumni Association (MAA) distributed laptops to Twenty-One needy meritorious 3rd year students at Motilal Nehru National Institute of Technology.

Twenty-Nine students have been selected for even semester scholarship from MAA amounting to a total of Rs 4.95 Lakhs.

MAA also awarded Rs 20,000/- to Mr. and Miss Culrav 2021.

We are extremely grateful to all our Illustrious Alumni/Motis for their whole hearted support to MAA activities

**Link for event photographs:**

<https://alumni.mnnit.ac.in/albums/photos/159471.dz>

**News Coverage:**

<https://www.amarujala.com/uttar-pradesh/allahabad/mnnit-laptops-distributed-to-needy-students-in-collaboration-with-alumni-students>

**Beneficiaries: - [Rs. 6, 61,521.00]**

S. No.	Name	Registration No	Branch
1.	Pavan Kumar	20190009	Biotech
2.	Gaurav Verma	20199002	Chemical

3.	Yuvraj Singh Gaur	20191034	Civil
4.	Anshika Mishra	20191099	Civil
5.	Aparna Mittal	20194136	CSE
6.	Kislay Kumar	20194055	CSE
7.	Amar Keshari	20194038	CSE
8.	Ankur Singh	20194102	CSE
9.	Anurag Tripathi	20195015	ECE
10.	Ashutosh Pathak	20195068	ECE
11.	Naman Singhal	20195120	ECE
12.	Avanish Kumar	20192027	EE
13.	Nand Kishor Kumar	20192017	EE
14.	Amit Kumar	20198028	IT
15.	Himanshu Singh	20198005	IT
16.	Aman Singh	20198056	IT
17.	Tanu Jaiswal	20191055	Mechanical
18.	Devashish Singh Tomar	20193120	Mechanical
19.	Mohit Kumar Pandey	20193004	Mechanical
20.	Shivam Yadav	20193016	Mechanical
21.	Akhand Pratap Chaudhary	20196021	PIE

**Scholarship Beneficiaries:-**

Sl. No.	Name	Registration No	Branch	Scholarship Amount
1.	Ajay Pandey	2020CA003	MCA	54,000.00
2.	Ankush Chawla	2019MSC15	MSC	17,500.00
3.	Neha Goyal	2019MSC02	MSC	26,500.00
4.	Challa Lakshmi Supraja	20206012	B. Tech - P&IE	19,000.00
5.	Vijay Kumar	20205180	B. Tech - ECE	10,000.00
6.	Saurabh Kumar	20205146	B. Tech - ECE	19,000.00
7.	Harsh Kumar Sharma	20205073	B. Tech - ECE	19,000.00
8.	Ashish Kumar Sharma	20205046	B. Tech - ECE	10,000.00
9.	Anuj Kumar	20205036	B. Tech - ECE	10,000.00
10.	Aman Kumar	20205026	B. Tech - ECE	10,000.00
11.	Ritik Kumar	20202067	B. Tech - EE	19,000.00
12.	RishabhChaurasia	20202066	B. Tech - EE	10,000.00
13.	AnkitaKumari	20202018	B. Tech - EE	9,000.00
14.	Harendra Kumar	20201049	B. Tech - Civil	19,000.00
15.	Deepak Kumar Yadav	20201040	B. Tech - Civil	19,000.00
16.	Abhishek Tripathi	20201007	B. Tech - Civil	19,000.00
17.	Uma Jha	20195158	B. Tech - ECE	19,000.00
18.	Devendra Kumar Atoliya	20195138	B. Tech - ECE	19,000.00
19.	Atul Jangir	20195137	B. Tech - ECE	19,000.00
20.	Avinash Kumar Gupta	20194051	B. Tech - CS	19,000.00
21.	AniketBamne	20193093	B. Tech - ME	19,000.00
22.	SurajKashyap	20192044	B. Tech - EE	19,000.00
23.	Shailendra Kumar Chaudhary	20192038	B. Tech - EE	19,000.00
24.	Pankaj Saini	20191033	B. Tech - Civil	19,000.00

25.	SabaParveen	20190031	B. Tech - BT	19,000.00
26.	Pavan Kumar	20190009	B. Tech - BT	20,000.00
27.	Aryan Anand Sinha	20185136	B. Tech - IT	4,525.00
28.	SriramKasu	20183138	B. Tech - ME	4,525.00
29.	RadheShyamPrajapat	20182071	B. Tech - EE	4,525.00
<b>Total</b>				<b>4,94,575.00</b>

#### **Mr. and Miss. Culrav Award 2021.**

An award money of Rs 10,000/- each is being given to Mr. Culrav – Aditya Gupta (Reg. No. 20192074) and Miss. CulravHarshikaPeeyoosh (Reg. No. 20191026) from MAA.

#### **MNNIT Alumni Network Annual Subscription Charges**

MNNIT Alumni Association on September 09, 2021 paid the annual subscription charges for alumni web portal of Rs. 90,860.00.

#### **MNNIT inaugurates National Level Lawn Tennis and Basketball Courts with 1987 batch support.**

Nehru National Institute of Technology (MNNIT) Allahabad, the newly constructed Synthetic Basketball & Lawn Tennis Courts (named Courts '87 after the donor batch) and the Renovated Girls & Boys Gyms were inaugurated on 16 January, 2022 by Prof. Rajeev Tripathi, Director MNNIT Allahabad and President of MNNIT Alumni Association (MAA). On this occasion the Guest of Honour was Shri Raj Dubey, Executive Director, Indian Oil Corporation Limited and an alumnus of 1987 Mechanical batch.

The construction of national level Courts '87 facility and the Girls & Boys Gyms renovation amounting to nearly Rs 32 Lakhs, was made possible by the generous funding by the 1987 batch of the erstwhile MNREC Allahabad.

Shri Raj Dubey also unveiled the logo of MAA designed by Ms. MridulaBhadra, Research Scholar Department of Biotechnology.

On this occasion Prof Geetika - Dean RGIA, Prof K. N. Pandey - Dean (P&D), various HODs, Dr.Sarvesh Tiwari - Registrar, Prof. R. P. Tiwari & Er. R. K. Agrawal of 1987 batch, Prof.Mukul Shukla - Vice President-I, Dr.Vandana Agrawal - Secretary, Dr. D.K. Shukla - Treasurer, Dr. Ramji Dwivedi - Joint Secretary-I, Faculty members, Officers of Gymkhana, CWM and CPWD, Non-

teaching staff of MAA and MNNIT were present. A large number of MNNIT alumni including that of 1987 and other batches also joined the event online.

#### **Link for Event Photographs:**

<https://drive.google.com/drive/u/0/folders/1p5UGMBGpAAWw0khOgk1fXOqCsKp1Fr3B>

#### **Link for E-News Coverage:**

[https://www.jagran.com/uttar-pradesh/allahabad-city-students-of-mnnit-got-national-level-lawn-tennis-and-basketball-court-22387199.html?utm\\_source=referral&utm\\_medium=WA&utm\\_campaign=social\\_share](https://www.jagran.com/uttar-pradesh/allahabad-city-students-of-mnnit-got-national-level-lawn-tennis-and-basketball-court-22387199.html?utm_source=referral&utm_medium=WA&utm_campaign=social_share)

#### **Link for Video of Courts '87:**

<https://youtu.be/iwgTn6Uapp8>

Mr. and Ms. Avishkar – 2021 on 24.01.2022

Mr. Avishkar – Utkarsh Rai (Reg. 20194084) Rs. 10,000.00

Ms. Avishkar – AnanyaMadaan (Reg. 20209006) Rs. 10,000.00

#### **Awards for MAA Logo design winner on 28.01.2022**

Ms. Mridula Bhadra, Research Scholar Department of Biotechnology (2020RBT02) – Rs. 10,000.00

#### **Financial support to technical clubs of the SAC for projects, the remaining amount of Rs. 40,000.00 each to four clubs of MNNIT has been transferred on 31.03.2022.**

MAA has transferred an amount of Rs 40,000/- each out of Rs. One Lakh each in the bank account of four clubs namely SAE India Collegiate Club of MNNIT, Robotics Club of MNNIT, Aero Club of MNNIT & Energy Club of MNNIT on March 31, 2022.

### 3.13 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 Rajesh Canteen
2. M/s Ram Pher Yadav
3. M/s P. K. Talwar
4. M/s Goyal Enterprises (Shri Amit Goyal)
5. M/s Raj Canteen
6. M/s Ganpati Cyber Cafe
7. M/s Yamuna Cafe (Shri S. N. Yadav)
8. M/s Gyan Traders
9. M/s Abhay Narayan Juice Corner
10. M/s Cafe College Humara
11. M/s Desh Raj Joos Corner
12. M/s Chaiwala
13. M/s Ojha Traders
14. M/s Anil S. Pillai
15. M/s Mood Ka Food
16. M/s Sandeep Dwivedi
17. M/s Tirath Raj Canteen
18. M/s Café '96'
19. M/s Awdesh Tiwari 'Barber Shop'

### 3.14 SC/ST CELL

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

#### Composition

#### (A) Regular members

- (i) Prof. A. K. Sachan Chairman  
CED
- (ii) Dr. Nitin Singh Convener SC/ST Cell  
EED & Liaison Officer

### 3.15 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).

### 3.16 EXECUTIVE DEVELOPMENT CENTRE (EDC)

EDC has 35 AC and 02 Non-AC rooms, 02 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 <sup>st</sup> Floor	01 Conference Hall, 12 AC & 02 Office Room
2 <sup>nd</sup> Floor	06 AC Room
3 <sup>rd</sup> Floor	09 AC & 01 Non AC Room

#### Rate

Cat.	Type of Accommodation	Tariff for Rooms	
		AC	Non-AC
<b>From 01.04.2021 to 16.11.2021</b>			
Official	Single Occupancy	300/-	200/-
	Double Occupancy	350/-	250/-
Non-official	Single Occupancy	500/-	400/-
	Double Occupancy	600/-	450/-
<b>From 16.11.2021 to 31.03.2022</b>			
Official	Single Occupancy	500/-	-
	Double Occupancy	700/-	-
Non-official	Single Occupancy	800/-	-
	Double Occupancy	900/-	-





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## ADMINISTRATIVE BODIES

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- 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  
[upto 27.06.2021]

Vacant

Chairperson  
[w.e.f. 28.06.2022]

##### The Director, ex officio Member

Prof. Rajeev Tripathi  
Director  
Motilal Nehru National Institute of Technology Allahabad

Member  
[upto 06.02.2022]

Prof. Rama Shanker Verma  
Director  
Motilal Nehru National Institute of Technology Allahabad

Member  
[w.e.f. 07.02.2022]

##### Two persons not below the rank Joint Secretary to the Government of India to be 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 - 110 115

Member

The Joint Secretary & Financial Advisor  
Department of Higher Education  
Ministry of Human Resource Development  
Government of India  
Shastri Bhawan  
New Delhi - 110 115

Member

##### Two persons nominated by the Government of U.P.

Shri Manish Kapoor  
62, Gandhinagar, Sigra  
Varanasi- 221010

Member  
[upto 12.09.2021]

Vacant

Member  
[w.e.f. 13.09.2021]

Vacant

Member

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

Vacant

Member

Vacant

Member

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

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

Member  
[upto 14.06.2021]

Prof. Rakesh Narain  
Professor  
Department of Mechanical Engineering  
Motilal Nehru National Institute of Technology Allahabad  
Prayagraj – 211004

Member  
[w.e.f. 15.06.2021]

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

Member  
[upto 14.06.2021]

Shri Rajesh Tripathi  
Associate Professor  
Department of Computer Science & Engineering  
Motilal Nehru National Institute of Technology Allahabad  
Prayagraj – 211004

Member  
[w.e.f. 15.06.2021]

**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.**

The 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

Secretary

**Four regular meetings and one emergent meeting of the Board of Governors were held during the year 2021-22.**

## 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 [upto 27.06.2021]
Vacant	Chairperson [w.e.f. 28.06.2021]

#### The Director, ex officio Member

Prof. Rajeev Tripathi Director Motilal Nehru National Institute of Technology Allahabad	Member [upto 06.02.2022]
Prof. Rama Shanker Verma Director Motilal Nehru National Institute of Technology Allahabad	Member [w.e.f. 07.02.2022]

#### Joint Secretary dealing with NIT 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 –110 115	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 amongst its members:

The Director or his nominee Indian Institute of Technology Kanpur P.O.- IIT Kanpur, Kanpur – 208016	Member
Prof. M. M. Gore Professor Department of Computer Science & Engineering Motilal Nehru National Institute of Technology Allahabad Prayagraj – 211004	Member [upto 14.06.2021]
Prof. Rakesh Narain Professor Department of Mechanical Engineering Motilal Nehru National Institute of Technology Allahabad Prayagraj – 211004	Member [w.e.f. 15.06.2021]

**The Registrar, Ex-officio Member Secretary**

Dr. Sarvesh Kumar Tiwari

Secretary

Registrar

Motilal Nehru National Institute of Technology Allahabad

**Four regular meetings and one emergent meeting of the Finance Committee were held during the year 2021-22.**

### 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

Chairman  
[upto 06.02.2022]

Prof. Rama Shanker Verma  
Director  
Motilal Nehru National Institute of Technology Allahabad

Chairman  
[w.e.f. 07.02.2022]

##### Onemember 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

Deputy Secretary [Finance]  
Department of Higher Education  
Ministry of Human Resource Development  
Government of India  
Room No.406-C, Shastri Bhawan,  
New Delhi-110 115

Member

##### One member nominated by the Board of Governors

Shri Rajeev Garg  
Former Superintending Engineer  
Indian Institute of Technology  
Kanpur

Member

##### Dean [Planning and Development] or similar position

Prof. M. M. Gore  
Dean [Planning & Development]  
Motilal Nehru National Institute of Technology Allahabad

Member  
[upto 31.07.2021]

Prof. K. N. Pandey  
Dean [Planning & Development]  
Motilal Nehru National Institute of Technology Allahabad

Member  
[w.e.f. 01.08.2021]

##### 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  
[upto 01.12.2021]



Mr. P. D. Mishra  
Chief Electrical Engineer  
North Central Railways  
Prayagraj Division  
SubedarGanj Rd, Subedarganj,  
Prayagraj- 211015

Member  
[w.e.f. 02.12.2021]

Mr. Devender Singh,  
GE (West) Allahabad  
Military Engineering Service  
Carrippa Road, New Cantt  
Prayagraj

Member

**Registrar, ex-officio Member Secretary**

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

Secretary

**Two regular meeting of the Building and Works Committee were held during the year 2021-22.**

#### 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                        |
| 2. Prof. Rama Shanker Verma, Director | Chairman<br>[w.e.f. 07.02.2022] |

##### The Deputy Director, Ex-Officio

- |                             |        |
|-----------------------------|--------|
| 3. 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. Rajeev Tripathi    | Member | 30. Prof. S. S. Narvi            | Member |
| 2. Prof. Vinod Yadava       | Member | 31. Prof. P. K. Mehta            | Member |
| 3. Prof. M. M. Gore         | Member | 32. Prof. Ravi Prakash Tewari    | Member |
| 4. Prof. Rakesh Narian      | Member | 33. Prof. S. J. Pawar            | Member |
| 5. Prof. Anuj Jain          | Member | 34. Prof. Shivesh Sharma         | Member |
| 6. Prof. Geetika            | Member | 35. Prof. Anjana Pandey          | Member |
| 7. Prof. R. K. Singh        | Member | 36. Prof. Sadhana Sachan         | Member |
| 8. Prof. P. K. Dutta        | Member | 37. Prof. G. K. Mehrotra         | Member |
| 9. Prof. Haranath Kar       | Member | 38. Prof. L. K. Mishra           | Member |
| 10. Prof. P. P. Sahay       | Member | 39. Prof. Rakesh Kumar           | Member |
| 11. Prof. A. D. Bhatt       | Member | 40. Prof. Raj Mohan Singh        | Member |
| 12. Prof. R. P. Tiwari      | Member | 41. Prof. Anil Kumar Singh       | Member |
| 13. Prof. A. K. Singh       | Member | 42. Prof. D. S. Kushawaha        | Member |
| 14. Prof. R. S. Yadav       | Member | 43. Prof. D. K. Yadav            | Member |
| 15. Prof. R. K. Tripathi    | Member | 44. Prof. Paulson Samuel         | Member |
| 16. Prof. V. K. Srivastava  | Member | 45. Prof. Asheesh Kumar Singh    | Member |
| 17. Prof. R. C. Vaishya     | Member | 46. Prof. Rajesh Gupta           | Member |
| 18. Prof. Vijaya Bhadauria  | Member | 47. Prof. Richa Negi             | Member |
| 19. Prof. Shubhi Purwar     | Member | 48. Prof. Nand Kishor            | Member |
| 20. Prof. R. K. Nagaria     | Member | 49. Prof. Ram Awadh Mishra       | Member |
| 21. Prof. K. N. Pandey      | Member | 50. Prof. Vijay Shankar Tripathi | Member |
| 22. Prof. Shiv Dutt Kumar   | Member | 51. Prof. Pankaj Srivastava      | Member |
| 23. Prof. Anil Kumar Sachan | Member | 52. Prof. Mukul Shukla           | Member |
| 24. Prof. R. D. Gupta       | Member | 53. Prof. Avanish Kumar Dubey    | Member |
| 25. Prof. Ram Pal Singh     | Member | 54. Prof. Rajeev Srivastava      | Member |
| 26. Prof. H. S. Goyal       | Member | 55. Prof. M. K. Khurana          | Member |
| 27. Prof. Neeraj Tyagi      | Member | 56. Prof. S. N. Pandey           | Member |
| 28. Prof. Ravi Prakash      | Member | 57. Prof. Tanuj Nandan           | Member |
| 29. Prof. Amit Dhawan       | Member | 58. 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. (Mrs.) Madhu Dikshit<br>THSTI National Chair,<br>NCR Biotech Science Cluster,<br>3 <sup>rd</sup> Milestone, Faridabad–Gurgaon Expressway,<br>Faridabad, Haryana-121001. | Member |
| 2. | Prof. Jai Prakash Saini<br>Vice-Chancellor,<br>Netaji Subhas University of Technology (NSUT),<br>New Delhi-110078   | Member |
| 3. | Prof. Braj Bhushan<br>Professor<br>Department of Humanities and Social Sciences<br>Indian Institute of Technology Kanpur<br>Kanpur-208016                                     | 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	Secretary
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Three regular meeting of the Senate were held during the year 2021-22.



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**THE STAFF**

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- 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

		<b>Professors</b>	
<b>Sl. No.</b>	<b>Name</b>	<b>Department</b>	
1.	Prof. K. K. Shukla	Applied Mechanics	[On deputation]
2.	Prof. Anuj Jain	Applied Mechanics	
3.	Prof. Ravi Prakash Tewari	Applied Mechanics	
4.	Prof. S. J. Pawar	Applied Mechanics	
5.	Prof. P. K. Dutta	Chemistry	
6.	Prof. S. S. Narvi	Chemistry	
7.	Prof. G. K. Mehrotra	Chemistry	
8.	Prof. R. P. Tiwari	Civil Engineering	
9.	Prof. Anil Kumar Sachan	Civil Engineering	
10.	Prof. A. K. Singh	Civil Engineering	
11.	Prof. R. D. Gupta	Civil Engineering	
12.	Prof. R. C. Vaishya	Civil Engineering	
13.	Prof. Ram Pal Singh	Civil Engineering	
14.	Prof. P. K. Mehta	Civil Engineering	
15.	Prof. L. K. Mishra	Civil Engineering	
16.	Prof. Rakesh Kumar	Civil Engineering	
17.	Prof. Raj Mohan Singh	Civil Engineering	
18.	Prof. M. M. Gore	Computer Science Engineering	
19.	Prof. R. S. Yadav	Computer Science Engineering	
20.	Prof. Neeraj Tyagi	Computer Science Engineering	
21.	Prof. Anil Kumar Singh	Computer Science Engineering	
22.	Prof. D. S. Kushawaha	Computer Science Engineering	
23.	Prof. D. K. Yadav	Computer Science Engineering	
24.	Prof. R. K. Singh	Electrical Engineering	
25.	Prof. R. K. Tripathi	Electrical Engineering	
26.	Prof. Shubhi Purwar	Electrical Engineering	
27.	Prof. Paulson Samuel	Electrical Engineering	
28.	Prof. Asheesh Kumar Singh	Electrical Engineering	
29.	Prof. Rajesh Gupta	Electrical Engineering	
30.	Prof. Richa Negi	Electrical Engineering	
31.	Prof. Nand Kishor	Electrical Engineering	
32.	Prof. Rajeev Tripathi [Director]	Electronics & Communication Engineering	
33.	Prof. Haranath Kar	Electronics & Communication Engineering	
34.	Prof. V. K. Srivastava	Electronics & Communication Engineering	
35.	Prof. Vijaya Bhaduria	Electronics & Communication Engineering	
36.	Prof. Amit Dhawan	Electronics & Communication Engineering	
37.	Prof. R. K. Nagaria	Electronics & Communication Engineering	
38.	Prof. Ram Awadh Mishra	Electronics & Communication Engineering	
39.	Prof. Vijay Shankar Tripathi	Electronics & Communication Engineering	
40.	Prof. Shiv Dutt Kumar	Mathematics	
41.	Prof. Pankaj Srivastava	Mathematics	
42.	Prof. Manoj Kumar	Mathematics	Died on 20.04.2021
43.	Prof. Rakesh Narian	Mechanical Engineering	
44.	Prof. Vinod Yadava	Mechanical Engineering	

45.	Prof. A. D. Bhatt	Mechanical Engineering
46.	Prof. H. S. Goyal	Mechanical Engineering
47.	Prof. Ravi Prakash	Mechanical Engineering
48.	Prof. K. N. Pandey	Mechanical Engineering
49.	Prof. Avanish Kumar Dubey	Mechanical Engineering
50.	Prof. Rajeev Srivastava	Mechanical Engineering
51.	Prof. M. K. Khurana	Mechanical Engineering
52.	Prof. Mukul Shukla	Mechanical Engineering
53.	Prof. P. P. Sahay	Physics
54.	Prof. S. N. Pandey	Physics
55.	Prof. Shivesh Sharma	Biotechnology
56.	Prof. Anjana Pandey	Biotechnology
57.	Prof. Sadhana Sachan	Chemical Engineering
58.	Prof. Geetika	School of Management Studies
59.	Prof. Tanuj Nandan	School of Management Studies
60.	Prof. 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. Vibhuti Tripathi	School of Management Studies

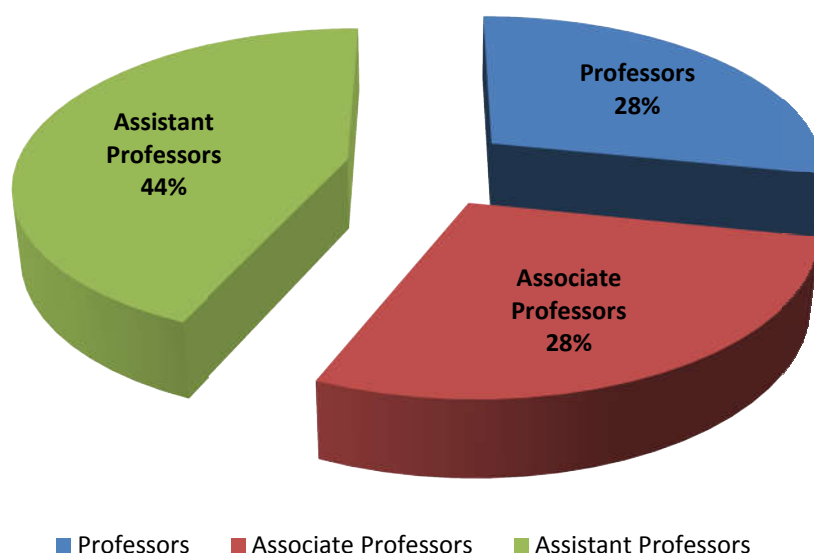
#### Assistant Professors

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. Abhishek Kundu	Applied Mechanics
7.	Dr. Udhayaraman R.	Applied Mechanics
8.	Dr. Satish Kumar	Applied Mechanics
9.	Dr. Tanmoy Mondal	Applied Mechanics
10.	Dr. Radha Rani Mewaram	Biotechnology
11.	Dr. Ashutosh Mani	Biotechnology
12.	Dr. Ambak Kumar Rai	Biotechnology
13.	Dr. Sameer Srivastava	Biotechnology
14.	Dr. Joyabrata Mal	Biotechnology
15.	Dr. Rupika Sinha	Biotechnology
16.	Dr. Suantak Kamsonlian	Chemical Engineering
17.	Dr. Ashish Nivrittinath Sawarkar	Chemical Engineering
18.	Dr. Harinder Singh	Chemical Engineering
19.	Dr. Ankur Gaur	Chemical Engineering
20.	Dr. Shabih-Ul-Hasan	Chemical Engineering

21.	Dr. Dipesh Shikchand Patle	Chemical Engineering	
22.	Dr. Parul Katiyar	Chemical Engineering	
23.	Dr. Manju Verma	Chemical Engineering	
24.	Dr. Debolina Basu	Civil Engineering	
25.	Dr. Vishwajeet Pratap Singh	Civil Engineering	
26.	Dr. Vijay Kumar	Civil Engineering	
27.	Dr. Anupam Rawat	Civil Engineering	
28.	Dr. Pramod Soni	Civil Engineering	
29.	Dr. Shambhavi Mishra	Civil Engineering	
30.	Dr. Krishna Kumar Mishra	Computer Science Engineering	
31.	Dr. Ranvijay	Computer Science Engineering	
32.	Dr. Shashank Srivastava	Computer Science Engineering	
33.	Dr. Divya Kumar	Computer Science Engineering	
34.	Dr. Shashwati Banerjee	Computer Science Engineering	
35.	Dr. Dinesh Singh	Computer Science Engineering	
36.	Dr. Dushyant Kumar Singh	Computer Science Engineering	
37.	Dr. Pragya Dwivedi	Computer Science Engineering	
38.	Dr. Rupesh Kumar Dewang	Computer Science Engineering	
39.	Dr. Rajitha B.	Computer Science Engineering	
40.	Dr. Sarsij Tripathi	Computer Science Engineering	
41.	Dr. Navjot Singh	Computer Science Engineering	[Resignation accepted w.ef. 22.04.2021
42.	Dr. Vibhav Prakash Singh	Computer Science Engineering	
43.	Dr. Shailendra Shukla	Computer Science Engineering	
44.	Dr. Ashish Kumar Maurya	Computer Science Engineering	
45.	Dr. Dinesh Kumar	Computer Science Engineering	
46.	Dr. J. Sathish Kumar	Computer Science Engineering	
47.	Dr. Mayukh Sarkar	Computer Science Engineering	
48.	Dr. Deepak Kumar	Electrical Engineering	
49.	Dr. Navneet Kumar Singh	Electrical Engineering	
50.	Dr. Niraj Kumar Choudhary	Electrical Engineering	
51.	Dr. M. Venkatesh Naik	Electrical Engineering	
52.	Dr. Prashant Kumar Tiwari	Electrical Engineering	
53.	Dr. Dipayan Guha	Electrical Engineering	
54.	Dr. Suman M.	Electrical Engineering	
55.	Dr. Saumendra Sarangi	Electrical Engineering	
56.	Dr. Karuppanan P.	Electronics & Communication Engineering	
57.	Dr. Shweta Tripathi	Electronics & Communication Engineering	
58.	Dr. Rajeev Gupta	Electronics & Communication Engineering	
59.	Dr. Vinay Kumar	Electronics & Communication Engineering	
60.	Dr. Vadthiya Narendar	Electronics & Communication Engineering	[Technical Resignation accepted w.ef. 10.05.2018
61.	Dr. Anand Sharma	Electronics & Communication Engineering	
62.	Dr. Sumit Kumar Jha	Electronics & Communication Engineering	
63.	Dr. Smriti Agarwal	Electronics & Communication Engineering	
64.	Dr. Ramji Dwivedi	GIS Cell	
65.	Dr. Manohar Yadav	GIS Cell	
66.	Dr. Sonam Agarwal	GIS Cell	
67.	Dr. Mitu Mandal	HSS	
68.	Dr. Soni Joseph	HSS	

69.	Dr. Buddakkagari Vasu	Mathematics
70.	Dr. Surabhi Tiwari	Mathematics
71.	Dr. Supriya Yadav	Mathematics
72.	Dr. Prashanta Majee	Mathematics
73.	Dr. Vandana Agrawal	Mechanical Engineering
74.	Dr. Rahul Dev	Mechanical Engineering
75.	Dr. Sunil Kumar Gupta	Mechanical Engineering
76.	Dr. Pragya Shandilya	Mechanical Engineering
77.	Dr. Bireswar Paul	Mechanical Engineering
78.	Dr. Manoj Kumar Gupta	Mechanical Engineering
79.	Dr. Bhore Skylab Pavalas	Mechanical Engineering
80.	Dr. Jitendra Narayan Gangwar	Mechanical Engineering
81.	Dr. Binayaka Nahak	Mechanical Engineering
82.	Dr. R. Prabhu Sekar	Mechanical Engineering
83.	Dr. Ashwini Kumar Yadav	Mechanical Engineering
84.	Dr. Vineed Narayanan	Mechanical Engineering
85.	Dr. Y. G. Bala	Mechanical Engineering
86.	Dr. Tej Pratap	Mechanical Engineering
87.	Dr. Shantanu Srivastava	Mechanical Engineering
88.	Dr. Swastik Acharya	Mechanical Engineering
89.	Dr. Pranab Kumar Kundu	Mechanical Engineering
90.	Dr. Rakesh Kumar	SMS
91.	Dr. Somen Dey	SMS
92.	Dr. Yatish Joshi	SMS
93.	Dr. Ravi Prakash	Physics

**FACULTY AS ON 31.03.2022**



### Heads of the Departments

Sl. No.	Name	Department	Remarks
1.	(i) Dr. Ramesh Pandey	Applied Mechanics	upto 17.08.2021
	(ii) Dr. Abhishek Kumar	Applied Mechanics	w.e.f. 18.08.2021
2.	Dr. Vishnu Agarwal	Biotechnology	
3.	Dr. Tamal Ghosh	Chemistry	
4.	Dr. Sushil Kumar	Chemical Engineering	
5.	Prof. D.S. Kushwaha	Computer Science & Engineering	
6.	(i) Prof. R. C. Vaishya	Civil Engineering	upto 26.07.2021
	(ii) Prof. P. K. Mehta	Civil Engineering	w.e.f. 27.07.2021
7.	(i) Prof. Asheesh Kumar Singh	Electrical Engineering	upto 10.07.2021
	(ii) Prof. Rajesh Gupta	Electrical Engineering	w.e.f. 11.07.2021
8.	(i) Prof. Amit Dhawan	Electronics & Communication Engineering	upto 10.08.2021
	(ii) Prof. R. K. Nagaria	Electronics & Communication Engineering	w.e.f. 11.08.2021
9.	(i) Prof. R. S. Yadav	Chairperson, GIS Cell	upto 08.06.2021
	(ii) Prof. Vinay Kumar Srivastava	Chairperson, GIS Cell	w.e.f. 09.06.2021
10.	(i) Dr. Rajesh Kumar Shastri	Humanities & Social Sciences	upto 06.05.2021
	(ii) Dr. Ravindra Tripathi	Humanities & Social Sciences	w.e.f. 07.05.2021
11.	(i) Prof. H. S. Goyal	Mechanical Engineering	upto 30.12.2021
	(ii) Prof. K. N. Pandey	Mechanical Engineering	w.e.f. 31.12.2021
12.	Dr. Mukesh Kumar	Mathematics	
13.	Dr. Naresh Kumar	Physics	
14.	(i) Dr. Tripti Singh	School of Management Studies	upto 22.08.2021
	(ii) Dr. Vibhuti Tripathi	School of Management Studies	w.e.f. 23.08.2021

### Deans

Sl. No.	Name	Division	Remarks
1.	Prof. R. K. Singh	Dean [Academic]	
2.	(i) Prof. M. M. Gore	Dean [Planning & Development]	upto 31.07.2021
	(ii) Prof. K. N. Pandey	Dean [Planning & Development]	from 01.08.2021 to 17.02.2022
	(iii) Prof. Anil Kr. Sachan	Dean [Planning & Development]	w.e.f. 18.02.2022
3.	Prof. R. S. Yadav	Dean [Research & Consultancy]	
4.	(i) Prof. Rakesh Narain	Dean [Faculty Welfare]	upto 06.08.2021
	(ii) Prof. M. M. Gore	Dean [Faculty Welfare]	w.e.f. 07.08.2021
5.	(i) Prof. K. N. Pandey	Dean [Student Welfare]	upto 01.07.2021
	(ii) Prof. Paulson Samuel	Dean [Student Welfare]	w.e.f. 02.07.2021
6.	Prof. Geetika	Dean [Resource Generation & International Affairs]	

### 5.2 ADMINISTRATIVE OFFICERS

Sl. No.	Name	Designation	Remarks
1.	Dr. Sarvesh K. Tiwari	Registrar	
2.	Mrs. Manisha Yadav	Assistant Registrar	
3.	Dr. Shwetank Parihar	Assistant Registrar	
4.	Shri Satyajeet Kumar	Assistant Registrar	
5.	Shri Gyanendra Kumar Tiwari	Assistant Registrar	
6.	Shri Manas Agrawal	Assistant Registrar	

7.	Shri Mohd. Danish Ansari	Assistant Registrar	
8.	Shri Nirmal Kumar Shukla	Assistant Registrar	
9.	Shri Vivekanand	Assistant Registrar	
10.	Shri Manish Kumar	Senior Executive Engineer	
11.	Shri Arvind Kumar Singh	Executive Engineer [Electrical Maintenance]	
12.	Shri Raghvendra Singh	SAS Officer	
13.	Dr. S. P. Verma	Sr. SAS Officer	
14.	Shri Abhay Singh	Technical Officer	
15.	Shri D. K. Dwivedi	Technical Officer	[Retired on 28.02.2022]
16.	Shri Ritesh Kumar Sahu	Dy. Librarian	
17.	Shri Arvind Kant Singh	Assistant Librarian	
18.	Shri Sanjay Singh	Executive Engineer	

### 5.3 TECHNICAL STAFF

#### Technical Assistant [SG-I]

1. Shri Trivikram
2. Shri Sanjay Singh
3. Shri Harish Chandra
4. Shri S. N. Chaturvedi
5. Shri Pankaj Sikka
6. Smt. Anju Jha
7. Shri Manoj Singh Bonal
8. Shri Ashutosh Kr. Gupta

#### Technical Assistant [SG-II]

1. Shri R. K. Sharma

#### Senior Technical Assistant

1. Shri Om Prakash Parashar [Died on 09.12.2021]
2. Shri Diwakar Tiwari

#### Library and Information Assistant [SG-I]

1. Smt. Sangeeta Rani

#### Library and Information Assistant [SG-II]

1. Shri Chedi Lal Patel [Retired on 28.02.2022]

#### Technician [SG-I]

1. Shri Gopal Ram
2. Shri Rama Shankar Gupta

#### Technician [SG-II]

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

### Senior Technician

1. Shri Satya Narain Singh
2. Shri Kamla Prasad Maurya
3. Shri Triyugi Nath Shukla
4. Shri. Tribhuvan Singh Yadav
5. Shri Dinesh Shankar Mishra
6. Shri Ram Sajiwan Pal
7. Shri Riyaz Ahmad [Retired on 31.03.2022]

### Technician

1. Shri Jagdish Prasad
2. Shri Naresh Chandra

### 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 Shyam Babu
2. Shri Mewalal
3. Shri Shiv Karan Patel
4. Shri Anil Kumar

#### Senior Superintendent

1. Shri Chandrabhan Kushwaha [Retired on 31.07.2021]
2. Shri Amrit Lal
3. Shri Shrikant
4. Shri Anirudh Kr. Chaudhary

### Superintendent

1. Shri Sanjay Yadav
2. Shri Shribhav Tiwari [Joined on 28.05.2021]
3. Shri. Manu Sharma [Joined on 14.06.2021]
4. Shri. Shailesh Awasthi [Joined on 23.06.2021]
5. Shri. Sushant Kunal [Joined on 24.06.2021]
6. Shri. Sumit [Joined on 06.08.2021]

### Assistant [SG-II]

1. Shri A. V. Pathak [Died on 05.10.2021]
2. Shri Vijay 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 [Died on 15.04.2021]
9. Shri Vinod Kumar

### Senior Stenographer

1. Miss. Shashi Mishra [Joined on 28.05.2021]

### Stenographer

1. Shri. Vivek Kumar Mishra [Joined on 28.05.2021]
2. Shri. Shivakant Shukla [Joined on 28.05.2021]

### Senior Assistant

1. Shri Prem Chand
2. Shri Duryodhan Lal
3. Shri. Ashutosh Kumar [Joined on 28.05.2021]
4. Shri. Vikash Kumar Soni [Joined on 28.05.2021]
5. Miss. Nidhi Pal [Joined on 28.05.2021]
6. Shri. Mohd Shams [Joined on 28.05.2021]
7. Shri. Virendra Kumar [Joined on 28.05.2021]
8. Shri. Chandan Kumar [Joined on 31.05.2021]
9. Shri. Rohit Kumar [Joined on 03.06.2021]
10. Shri. Ram Vijay Singh [Joined on 19.07.2021]
11. Shri. Abhishek kumar Jaiswal [Joined on 16.08.2021]

### Junior Assistant

1. Shri Pawan Kumar Mishra
2. Shri Ram Sanehi Maurya
3. Shri Monu Jeet Dayal
4. Shri Suraj
5. Miss. Zainab Ansari [Joined on 28.05.2021]
6. Shri. Ripunjay Mishra [Joined on 28.05.2021]
7. Miss. Vishakha Gupta [Joined on 28.05.2021]
8. Shri. Shubham Kr. Verma [Joined on 28.05.2021]

9. Shri. Manish Mishra [Joined on 28.05.2021]
10. Shri. Pushpendra Singh [Joined on 28.05.2021]
11. Shri. Naseeb Ahmad Khan [Joined on 28.05.2021]
12. Shri. Asha Ram Meena [Joined on 28.05.2021]
13. Shri. Prateek Tripathi [Joined on 28.05.2021]
14. Shri. Pranjal Malaviya [Joined on 28.05.2021]
15. Shri. Himanshu [Joined on 28.05.2021]
16. Shri. Sameer Kaithwas [Joined on 28.05.2021]
17. Shri. Manjeet Pratap [Joined on 28.05.2021]  
[Resigned on 31.08.2021]
18. Shri. Anshuman Singh Yadav [Joined on 28.05.2021]  
[Resigned on 20.02.2022]
19. Shri. Pradeep Kumar Yadav [Joined on 01.06.2021]

### Private Secretary

1. Shri Ram Baran

### 5.5 SUPPORTING STAFF

#### Lab Attendant [SG-I]

1. Shri Satya Narain

#### Lab Attendant [SG-II]

1. Shri Sudhakar Tiwari

#### Senior Lab Attendant

1. Shri Ram Dulare

#### 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 [Died on 16.04.2021]
5. Shri Suresh
6. Shri Anil
7. Shri Raju
8. Shri Prakash
9. Shri Rajendra Prasad
10. Shri Sangam Lal Yadav
11. Shri Jehli Singh
12. Shri Nand Lal Prajapati
13. Shri Hari Lal Yadav

14. Shri Hausala Prasad
15. Shri Shobh Nath Maurya
16. Shri Gulab Chandra

17. Smt. Geeta Devi
18. Shri Shyam Lal Pal
19. Shri Harish Chandra Maurya

[Retired on 28.02.2022]



## **ACADEMIC PROGRAMMES & STUDENTS DETAILS**

---

- 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.)**
- 6.7 Students Intake**
- 6.8 Admission Procedure**
- 6.9 Courses-Wise Enrolment with Gender, Category Wise Break-up 2021-22**
- 6.10 Student Statistics for U.G./ P.G./ Ph.D. Programmes 2021-22**
- 6.11 Convocation 2021**

## 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) Engineering Mechanics & Design
- (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) Environmental Engineering
- (ii) Geo-Technical Engineering
- (iii) Structural Engineering
- (iv) Transportation Engineering

#### Computer Science Engineering Department

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

#### Electrical Engineering Department

- (i) Control & Instrumentation
- (ii) Power Electronics & Drives
- (iii) Power System

#### Electronics and Communication Engineering Department

- (i) Signal Processing
- (ii) Microelectronics and VLSI Design
- (iii) Communication System

## Mechanical Engineering Department

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

## GIS Cell

- (i) Geoinformatics

## Civil Engineering Department

- (i) Environmental Engineering

## Computer Science Engineering Department

- (i) Software Engineering

## Electrical Engineering Department

- (i) Electrical Engineering (Power Electronics & Drives)

## Mechanical Engineering Department

- (i) Production Engineering

## School of Management Studies

- (i) Master of Business Administration (Part-time)

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

Following specializations are offered:

- (i) Finance
- (ii) Marketing
- (iii) Human Resource
- (iv) Systems

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

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

- (i) Mathematics and Scientific Computing.

## 6.6 DOCTORAL PROGRAMMES (Ph.D.)

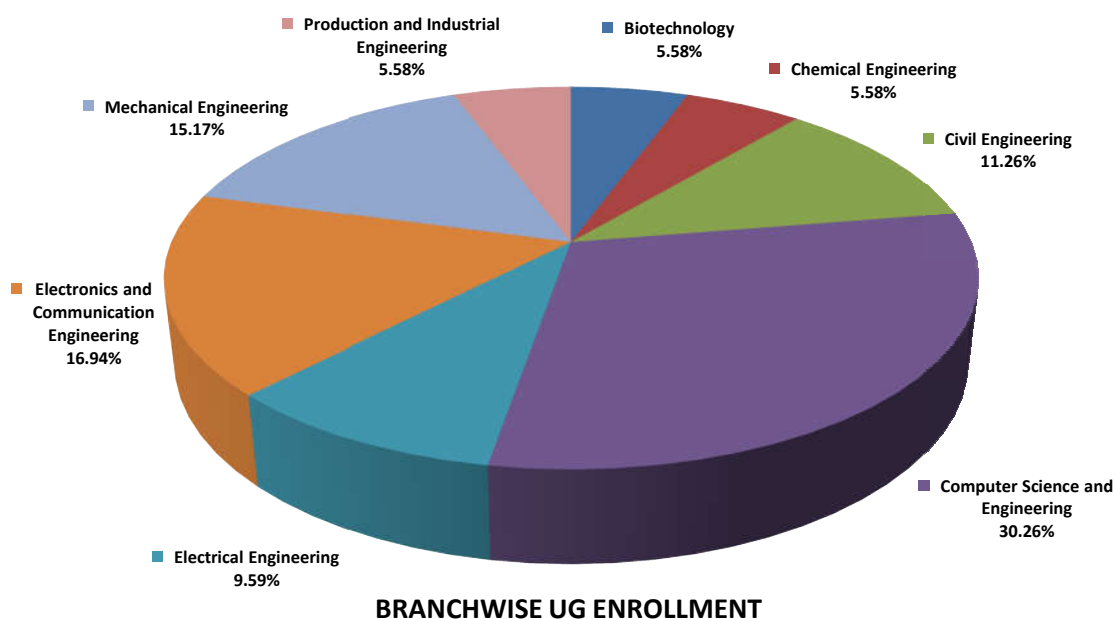
MNNIT Allahabad has been growing rapidly as a highly reputed academic institution and research is an integral aspect. Therefore, to promote Doctoral Programme, Institute Fellowships have been established, which are distributed among all the departments Besides, a number of non-stipendiary admission to these Doctoral

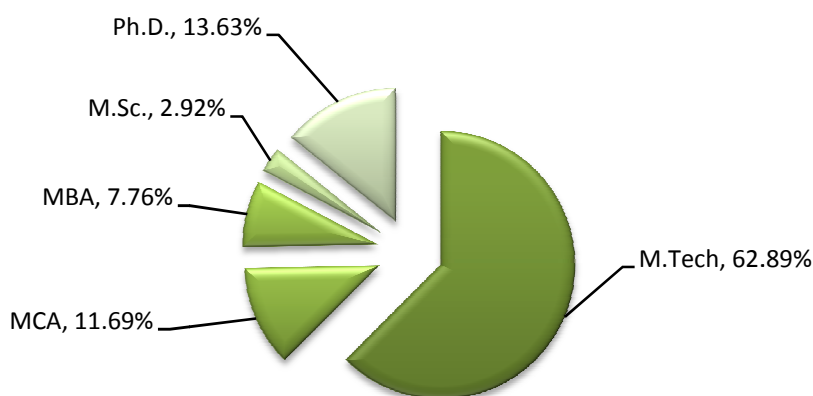
Programmes is also made to facilitate faculty from other Institutes and Industry personnel to pursue M.Tech. & Ph.D. in various Departments,

under QIP scheme. Executives from industry also join under self sponsored category.

### 6.7 STUDENTS INTAKE:

Name of Programme	Branch	Intake
Bachelor of Technology (B.Tech.)	Biotechnology	60
	Chemical Engineering	60
	Civil Engineering	121
	Computer Science and Engineering	325
	Electrical Engineering	103
	Electronics and Communication Engineering	182
	Mechanical Engineering	163
	Production and Industrial Engineering	60
Master of Technology (M.Tech.)	Including All 25 Specializations	595
Master of Computer Application (MCA)	NA	116
Master of Business Administration (MBA)	NA	77
Master of Science (M.Sc.)	Mathematics and Scientific Computing	29
Doctor of Philosophy (Ph.D.)	Including All Departments/Cells/Schools	129
<b>Total</b>		<b>2020</b>





### PROGRAMMWISE PG ENROLLMENT

#### 6.8 ADMISSION PROCEDURE

Sl. No.	Programme	Admission Through
1.	B.Tech.	Joint Entrance Examination [JEE (Mains)] (CSAB/JoSAA, DASA, ICCR, MEA, etc.)
2.	M.Tech.	Centralized Counselling for M.Tech./M.Arch./M.Plan. (CCMT)
3.	MCA	NIT Master of Computer Applications Common Entrance (NIMSET)
4.	MBA	Common Admission Test and Group Discussion /Personal Interview (CAT & GD/PI)
5.	M.Sc.	Centralized Common Counselling (CCMN)
6.	Ph.D.	Institute Admission Policy QIP Programme of Gol

#### 6.9 (A) (i) COURSES-WISE ENROLMENT WITH GENDER, CATEGORY WISE BREAK-UP 2021-22 (UG)

Sl. No.	Programme UG	Intake	Males				Females				Total			
			Gen.	EWS	OBC	SC/ST	Gen.	EWS	OBC	SC/ST	Gen.	EWS	OBC	SC/ST
1.	1 <sup>st</sup> Year	1074	345	81	239	190	82	22	50	51	427	103	289	241
2.	2 <sup>nd</sup> Year	1074	305	82	236	182	68	25	50	47	373	107	286	229
3.	3 <sup>rd</sup> Year	935	318	34	229	179	68	10	42	37	386	44	271	216
4.	4 <sup>th</sup> Year	878	363	NIL	199	170	61	NIL	36	27	424	NIL	235	197
<b>Total</b>		<b>3961</b>	<b>1331</b>	<b>197</b>	<b>903</b>	<b>721</b>	<b>279</b>	<b>57</b>	<b>178</b>	<b>162</b>	<b>1610</b>	<b>254</b>	<b>1081</b>	<b>883</b>

#### (A) (ii) ADDITIONAL FOREIGN ADMISSION IN UG PROGRAMME THROUGH DASA

Sl. No.	Programme UG	Males	Females	Total
1.	B.Tech. 1 <sup>st</sup> Year	42	9	51
2.	B.Tech. 2 <sup>nd</sup> Year	48	13	61
3.	B.Tech. 3 <sup>rd</sup> Year	67	8	75
4.	B.Tech. 4 <sup>th</sup> Year	47	18	65
<b>Total</b>		<b>204</b>	<b>48</b>	<b>252</b>

#### (B) PG (M.Tech.) 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 <sup>st</sup> Year	595	200	28	91	74	48	7	15	12	248	35	106	86
2.	M.Tech. 2 <sup>nd</sup> Year	595	148	38	133	57	29	7	24	21	177	45	157	78
<b>Total</b>		<b>1190</b>	<b>348</b>	<b>66</b>	<b>224</b>	<b>131</b>	<b>77</b>	<b>14</b>	<b>39</b>	<b>33</b>	<b>425</b>	<b>80</b>	<b>263</b>	<b>164</b>

**(C) PG (MCA) Programme**

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 <sup>st</sup> Year	116	39	10	26	20	8	2	4	4	47	12	30	24
2.	MCA 2 <sup>nd</sup> Year	116	29	8	23	14	7	3	7	6	36	11	30	20
3.	MCA 3 <sup>rd</sup> Year	103	27	4	22	18	11	1	10	4	38	5	32	22
<b>Total</b>		<b>335</b>	<b>95</b>	<b>22</b>	<b>71</b>	<b>52</b>	<b>26</b>	<b>6</b>	<b>21</b>	<b>14</b>	<b>121</b>	<b>28</b>	<b>92</b>	<b>66</b>

**(D) PG (MBA) Programme**

Sl. No.	Programme	Intake	Males				Females				Total			
			Gen.	EWS	OBC	SC/ST	Gen.	EWS	OBC	SC/ST	Gen.	EWS	OBC	SC/ST
1.	MBA 1 <sup>st</sup> Year	77	12	6	6	1	3	1	1	NIL	15	7	7	1
2.	MBA 2 <sup>nd</sup> Year	77	10	3	13	4	4	4	5	1	14	7	18	5
<b>Total</b>		<b>154</b>	<b>22</b>	<b>9</b>	<b>19</b>	<b>5</b>	<b>7</b>	<b>5</b>	<b>6</b>	<b>1</b>	<b>29</b>	<b>14</b>	<b>25</b>	<b>6</b>

**(E) PG (M.Sc. in Mathematics and Scientific Computing) 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.Sc. 1 <sup>st</sup> Year	29	7	3	6	1	5	NIL	2	3	12	3	8	4
2.	M.Sc. 2 <sup>nd</sup> Year	29	8	1	3	1	3	1	4	1	11	2	7	2
<b>Total</b>		<b>58</b>	<b>15</b>	<b>4</b>	<b>9</b>	<b>2</b>	<b>8</b>	<b>1</b>	<b>6</b>	<b>4</b>	<b>23</b>	<b>5</b>	<b>15</b>	<b>6</b>

**(G) (i) PH.D. ADMISSION IN ODD SEMESTER 2021-22**

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	129	34	8	21	14	12	2	11	5	46	10	32	19
2.	Course Code 12	35	2	1	1	NIL	3	1	1	NIL	5	2	2	NIL
3.	Course Code 13	35	3	NIL	NIL	2	1	NIL	3	1	4	NIL	3	3
4.	Course Code 14	05	2	NIL	1	NIL	NIL	NIL	1	1	2	NIL	2	1
<b>Total</b>		<b>204</b>	<b>41</b>	<b>9</b>	<b>23</b>	<b>16</b>	<b>16</b>	<b>3</b>	<b>16</b>	<b>7</b>	<b>57</b>	<b>12</b>	<b>39</b>	<b>23</b>

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

Course Code 14 : Faculty/Staff/Sponsor Project Fellow of MNNITA

**(G) (ii) PH.D. ADMISSION IN EVEN SEMESTER 2021-22**

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	19	NIL	3	2	NIL	3	NIL	2	1	3	3	4	1
2.	Course Code 12	65	4	NIL	3	1	7	1	3	1	11	1	6	2
3.	Course Code 13	67	1	NIL	NIL	1	2	1	2	1	3	1	2	2
4.	Course Code 14	03	NIL	NIL	3	NIL	NIL	NIL	NIL	NIL	NIL	NIL	3	NIL
<b>Total</b>		<b>154</b>	<b>5</b>	<b>3</b>	<b>8</b>	<b>2</b>	<b>12</b>	<b>2</b>	<b>7</b>	<b>3</b>	<b>17</b>	<b>5</b>	<b>15</b>	<b>5</b>

Course Code 11 : Institute Stipendiary Full-time Research Scholar

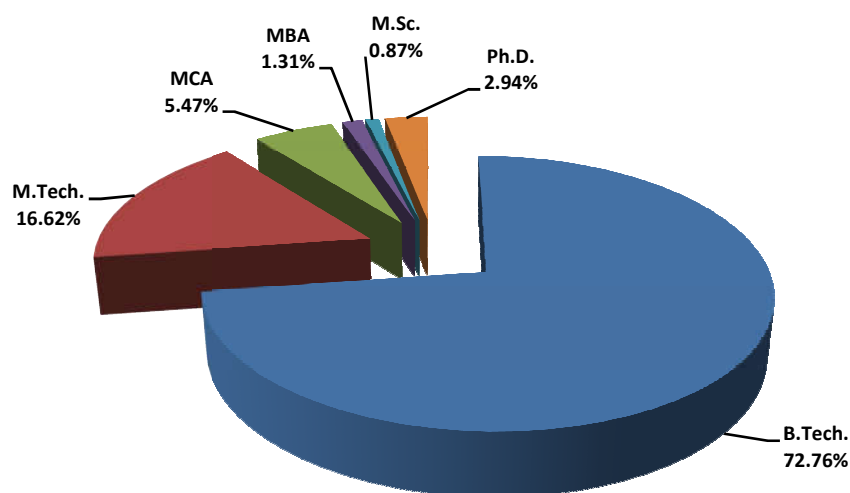
Course Code 12 : Self-financed Full-time Research Scholar

Course Code 13 : Sponsored Full-time Research Scholars

Course Code 14 : Faculty/Staff/Sponsor Project Fellow of MNNITA

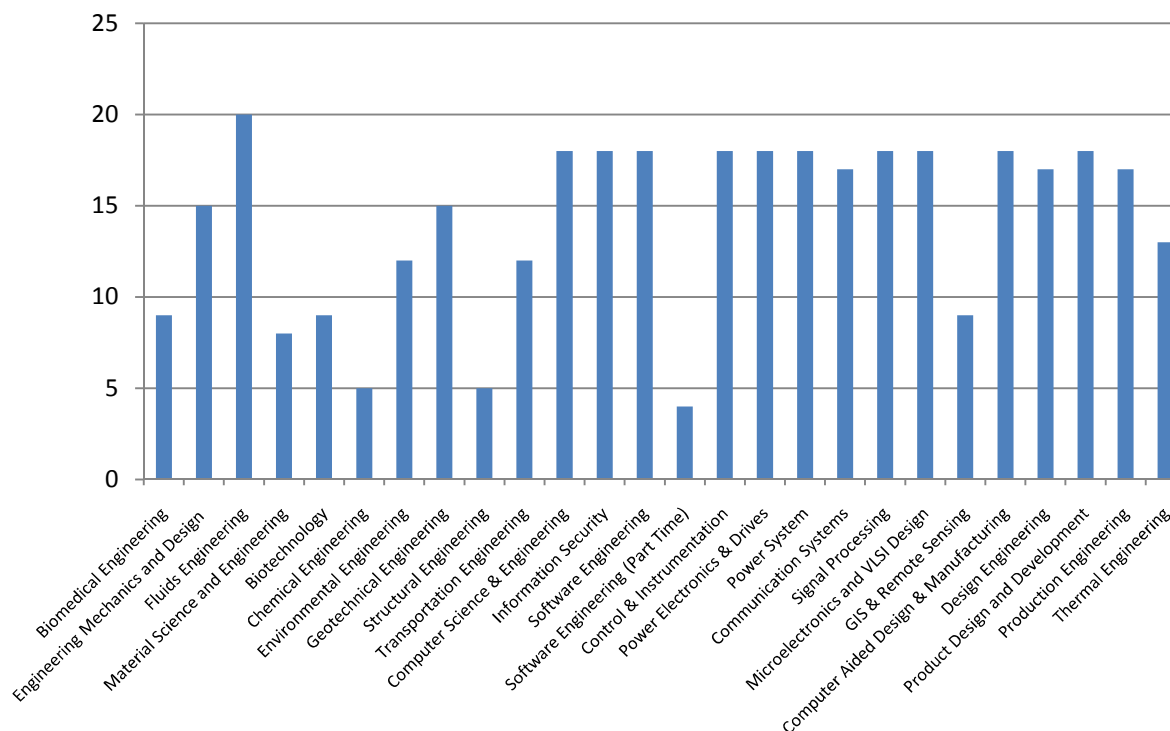
**6.10 STUDENT STATISTICS FOR UG/PG/Ph.D. PROGRAMMES 2021–22**

Programme	Male	Female	Total
B.Tech.	3356 (3152+204)	724 (676+48)	4080 (3828+252)
M.Tech.	769	163	932
MCA	240	67	307
MBA	55	19	74
M.Sc.	30	19	49
Ph.D.	101	64	165
<b>Total</b>	<b>4551</b>	<b>1056</b>	<b>5607</b>


**STUDENT STATISTICS FOR UG/PG/Ph.D. PROGRAMME 2021–22**
**6.11 CONVOCATION 2021**
**Branch wise Details of Degree to be Conferred in Convocation-2021**

B.Tech. Branch	BOT	CHE	CE	CSE	EE	ECE	IT	ME	PIE	TOTAL
No. of Degrees	32	44	92	176	82	155	101	137	41	860
M.Tech. Branch										
Biomedical Engineering	09									
Engineering Mechanics and Design	15									
Fluids Engineering	20									
Material Science and Engineering	08									
Biotechnology	09									
Chemical Engineering	05									
Environmental Engineering	12									
Geotechnical Engineering	15									
Structural Engineering	05									
Transportation Engineering	12									
Computer Science & Engineering	18									
Information Security	18									
Software Engineering	18									
Software Engineering (Part-time)	04									
Control & Instrumentation	18									
Power Electronics & Drives	18									
Power System	18									
Communication Systems	17									
Microelectronics and VLSI Design	18									
Signal Processing	18									
Geoinformatics	09									
Computer Aided Design & Manufacturing	18									
Design Engineering	17									
Product Design and Development	18									
Production Engineering	17									
Thermal Engineering	13									
<b>Total</b>	367									

**BRANCH WISE PG DEGREE CONFERRED IN CONVOCATION-2021**



Master of Computer Applications	– 85
Master of Business Administration	– 35
Master of Science	– 18
Ph.D.	– 99

Number of Academic Gold Medals	
PG	– 32
UG	– 13
Number of Sponsored Gold Medals	– 12

**Gold Medals for Post Graduate Examination–2021**

1. Gold Medal awarded to Mr. Chandra Prakash Pandey (Registration No. 2019BM01) for standing first at M.Tech. Biomedical Engineering, Final Examination 2021. (CPI 8.50)
2. Gold Medal awarded to Mr. Pachipala Dharmateja (Registration No. 2019EM07) for standing first at M.Tech. Engineering Mechanics and Design, Final Examination 2021. (CPI 8.65)
3. Gold Medal awarded to Mr. Vaibhav Srivastava (Registration No. 2019FE01) for standing first at M.Tech. Fluids Engineering, Final Examination 2021. (CPI 9.15)
4. Gold Medal awarded to Mr. Swatantra Kumar (Registration No. 2019MT07) for standing first at M.Tech. Material Science & Engineering, Final Examination 2021. (CPI 7.90)
5. Gold Medal awarded to Ms. Arisha Arora (Registration No. 2019BT07) for standing first at

6. Gold Medal awarded to Mr. Rajdeep Mukherjee (Registration No. 2019CL04) for standing first at M.Tech. Chemical Engineering, Final Examination 2021. (CPI 9.85)
7. Gold Medal awarded to Mr. Nishchaya Kumar Mishra (Registration No. 2019EN02) for standing first at M.Tech. Civil Engineering (Environmental Engineering), Final Examination 2021. (CPI 9.40)
8. Gold Medal awarded to Ms. Prity Dhanai (Registration No. 2019GE10) for standing first at M.Tech. Civil Engineering (Geotechnical Engg.), Final Examination 2021. (CPI 9.40)
9. Gold Medal awarded to Mr. Brajesh Rajpoot (Registration No. 2019ST18) for standing first at M.Tech. Civil Engineering (Structural Engineering), Final Examination 2021. (CPI 8.90)



10. Gold Medal awarded to Mr. Abu Nasar (Registration No. 2019TR14) for standing first at M.Tech. Civil Engineering (Transportation Engineering), Final Examination 2021. (CPI 8.90)
11. Gold Medal awarded to Mr. Shyam Kumar (Registration No. 2019TR10) for standing first at M.Tech. Civil Engineering (Transportation Engineering), Final Examination 2021. (CPI 8.90)
12. Gold Medal awarded to Ms. Garima Saxena (Registration No. 2019CS25) for standing first at M.Tech. Computer Science & Engineering, Final Examination 2021. (CPI 9.30)
13. Gold Medal awarded to Mr. Kumar Shubham (Registration No. 2019IS14) for standing first at M.Tech. Information Security, Final Examination 2021. (CPI 8.65)
14. Gold Medal awarded to Mr. Nishkarsh Makhija (Registration No. 2019SW21) for standing first at M.Tech. Software Engineering, Final Examination 2021. (CPI 9.50)
15. Gold Medal awarded to Mr. Ashish Khare (Registration No. 2018PTSW03) for standing first at M.Tech. Software Engineering (Part-time), Final Examination 2021. (CPI 8.94)
16. Gold Medal awarded Ms. Anushreya Gupta (Registration No. 2019EE05) for standing first at M.Tech. Electrical Engineering (Control & Instrumentation), Final Examination 2021. (CPI 9.40)
17. Gold Medal awarded to Mr. Maurya Manish chandra Rakeshchandra (Registration No. 2019EE04) for standing first at M.Tech. Electrical Engineering (Control & Instrumentation), Final Examination 2021. (CPI 9.40)
18. Gold Medal awarded to Mr. Gunupuru Govinda Rao (Registration No. 2019PE13) for standing first at M.Tech. Electrical Engineering (Power Electronics and Drives), Final Examination 2021. (CPI 9.45)
19. Gold Medal awarded to Mr. Harsh Pachauri (Registration No. 2019PS17) for standing first at M.Tech. Electrical Engineering (Power System), Final Examination 2021. (CPI 9.20)
20. Gold Medal awarded to Ms. Sonalika Singh (Registration No. 2019PS03) for standing first at M.Tech. Electrical Engineering (Power System), Final Examination 2021. (CPI 9.20)
21. Gold Medal awarded to Ms. Artika Srivastava (Registration No. 2019CM11) for standing first at M.Tech. Electronics Engg. (Communication Systems), Final Examination 2021. (CPI 9.75)
22. Gold Medal awarded to Ms. Arunita Mukherjee (Registration No. 2019VL20) for standing first at M.Tech. Microelectronics and VLSI Design, Final Examination 2021. (CPI 9.80)
23. Gold Medal awarded to Mr. Anubhav Tripathi (Registration No. 2019SP01) for standing first at M.Tech. Electronics Engineering (Signal Processing), Final Examination 2021. (CPI 9.80)
24. Gold Medal awarded to Mr. Pawan Singh (Registration No. 2019GI02) for standing first at M.Tech. Geoinformatics, Final Examination 2021. (CPI 8.75)
25. Gold Medal awarded to Mr. Shashi Kumar Kushawaha (Registration No. 2019CC22) for standing first at M.Tech. Mechanical Engineering (Computer Aided Design and Manufacturing), Final Examination 2021. (CPI 8.75)
26. Gold Medal awarded to Mr. Pawan Kumar (Registration No. 2019DN21) for standing first at M.Tech. Mechanical Engineering (Design Engineering), Final Examination 2021. (CPI 8.65)
27. Gold Medal awarded to Ms. Farheen Nisha (Registration No. 2019PD01) for standing first at M.Tech. Mechanical Engineering (Product Design and Development), Final Examination 2021. (CPI 9.20)
28. Gold Medal awarded to Mr. Vikas Diwakar (Registration No. 2019PR02) for standing first at M.Tech. Mechanical Engineering (Production Engineering), Final Examination 2021. (CPI 9.05)
29. Gold Medal awarded to Mr. Atul Kumar Ahirwal (Registration No. 2019TH23) for standing first at M.Tech. Mechanical Engineering (Thermal Engg.), Final Examination 2021. (CPI 8.95)
30. Gold Medal awarded to Ms. Sakshi Arora (Registration No. 2019MB08) for standing first at Master of Business Administration, Final Examination 2021. (CPI 9.92)
31. Gold Medal awarded to Mr. Veeru Tekchandani (Registration No. 2018CA78) for standing first at

Master of Computer Applications, Final Examination 2021. (CPI 9.58)

32. Gold Medal awarded to Ms. Disha Varshney (Registration No. 2019MSC01) for standing first at Master of Science (Mathematics & Scientific Computing), Final Examination 2021. (CPI 9.62)

#### **Gold Medals for Under Graduate Examination-2021**

1. Gold Medal awarded to Ms. Nimisha Gupta (Registration No. 20170003) for standing first at B.Tech. (Biotechnology), Final Examination 2021. (CPI 9.43)
2. Gold Medal awarded to Mr. Abhijeet Maurya (Registration No. 20179029) for standing first at B.Tech. (Chemical Engineering), Final Examination 2021. (CPI 9.40)
3. Gold Medal awarded to Mr. Akshat Jain (Registration No. 20171031) for standing first at B.Tech. (Civil Engineering), Final Examination 2021. (CPI 9.69)
4. Gold Medal awarded to Mr. Aayush Agarwal (Registration No. 20175028) for standing first at B.Tech. (Computer Science and Engineering), Final Examination 2021. (CPI 9.48)
5. Gold Medal awarded to Mr. Pranjal Tripathi (Registration No. 20178048) for standing first at B.Tech. (Information Technology), Final Examination 2021. (CPI 9.59)
6. Gold Medal awarded to Mr. Sachin Kumar (Registration No. 20172023) for standing first at B.Tech. (Electrical Engineering), Final Examination 2021. (CPI 9.55)
7. Gold Medal awarded to Mr. Ashish Kaushik (Registration No. 20175039) for standing first at

B.Tech. (Electronics and Communication Engineering), Final Examination 2021. (CPI 9.54)

8. Gold Medal awarded to Mr. Prashasti Bhai Patel (Registration No. 20173058) for standing first at B.Tech. (Mechanical Engineering), Final Examination 2021. (CPI 9.33)
9. Gold Medal awarded to Mr. Aman Yadav (Registration No. 20176015) for standing first at B.Tech. (Production and Industrial Engineering), Final Examination 2021. (CPI 8.54)

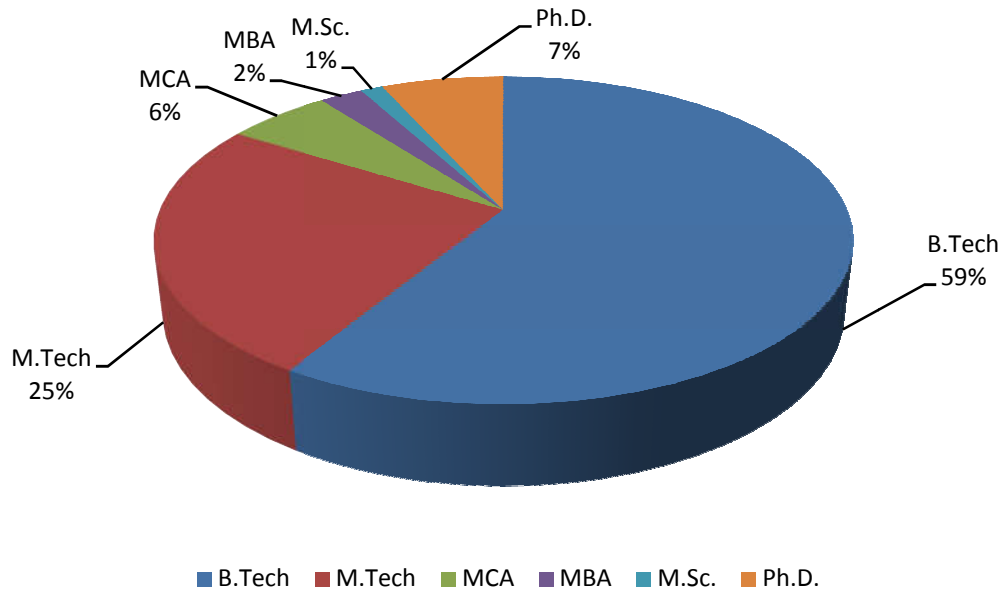
#### **Institute Gold Medal for Under Graduate Examination – 2021**

1. Institute Gold Medal awarded to Mr. Akshat Jain (Registration No. 20171031) of B.Tech. (Civil Engineering) for standing first amongst students of all branches of the Institute Final Examination 2021. (CPI 9.69)

#### **Gold Medals – 2021 for Under Graduate**

1. Gold Medal awarded to Mr. Aryan Mittal (Registration No. 20184069) of B.Tech. (Computer Science & Engineering) for standing first at B.Tech. Third Year Examination 2021. (CPI 9.70)
2. Gold Medal awarded to Mr. Shubham Dixit (Registration No. 20194003) of B.Tech. (Computer Science & Engineering) for standing first at B.Tech. Second Year Examination 2021. (CPI 9.68)
3. Gold Medal awarded to Ms. Amisha Sinha (Registration No. 20205029) of B.Tech. (Electronics and Communication Engineering) for standing first at B.Tech. First Year Examination 2021. (CPI 9.86)

**SUMMARY OF DEGREES AWARDED DURING CONVOCATION-2021**



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## RESEARCH AND DEVELOPMENT ACTIVITIES

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- 7.1 **Research and Consultancy (R&C) Cell**
- 7.2 **Research Projects**
- 7.3 **Consultancy Projects**
- 7.4 **Technical Education Quality Improvement Programme-Phase-III (TEQIP-III)**
- 7.5 **Institute Industry Interaction (III) Cell**
- 7.6 **Institute Innovation Council [IIC]**

## 7.1 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. These 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.

Some of the activities of the Research and Consultancy Cell of the Institute are:

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 & DB and 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. Publication of Shodh Volume-I & Volume -II R& C Bulletin.

## 7.2 RESEARCH PROJECTS

The Institute receives a large number of research projects from various funding agencies/organizations including SERB, DBT, CSIR, ICSSR, CST Lucknow, DRDO, ISRO, MNRE, UPPCB, Deity /Meity & CWC. The Institute has recorded a total 40 numbers of ongoing externally funded research projects having overall sanctioned cost of Rs. 21,16,73,114. Out of the 40 numbers of project, 13 new projects costing Rs. 3,41,79,455 were sanctioned during the year 2021-22. A total Number of 11 projects were completed in the financial year 2021-22. Details attached as per **Annexure-6**.

## 7.3 CONSULTANCY PROJECTS

The Institute allows consultancy projects from various Government, Private, Multinational Companies and Non Government Organizations through faculty members. The Consultancy project fee is distributed on sharing basis. In this financial year the Institute received consultancy projects 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. A total 341 number of consultancy projects have been received during the financial year 2021-22 having overall a total fee of Rs 5.88 crore. Details attached as per **Annexure-7**.

## 7.4 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 Programme 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.
- (iii) Twinning Arrangements to Build Capacity and Improve Performance of Institutions and ATUs participating in focus states.

Over the project around total 22 Conference/Seminars/Workshop/Short Terms Course were conducted in the Institute under TEQIP-III and beneficiary list count w.r.t. TEQIP-III is around 220.

### 7.5 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 postgraduate 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.

### 7.6 INSTITUTE INNOVATION COUNCIL (IIC)

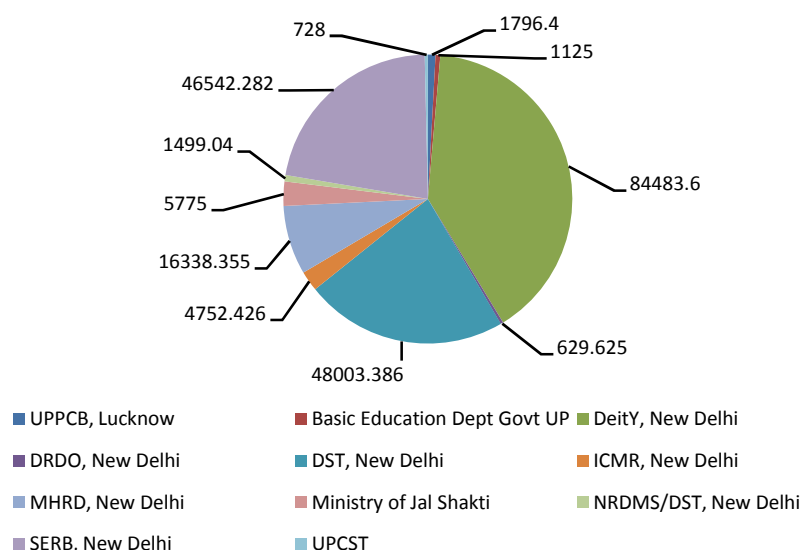
Government of India has established Innovation Cell to systematically foster the culture of Innovation amongst all Higher Education Institutions under the scheme an Institute Innovation Council is established.

### Event Organized by Institute Innovation Council [IIC]

Sl.No.	Date	Event
1.	09.04.2021 to 11.04.2021	4 <sup>th</sup> Edition of HACK36
2.	14.04.2021	Session on Business Model Canvas (BMC)
3.	15.04.2021	Session on Angel Investment / VC Funding Opportunity For Early Stage Entrepreneurs
4.	04.09.2021	How To Leverage Social Media
5.	28.10.2021	Intellectual Property-A Source Of Branding And Revenue Generation

6.	13.11.2021	My Story- Motivational Session By Successful Innovators
7.	13.11.2021	My Story-Motivational Session By Successful Entrepreneur/Startup Founder
8.	13.11.2021	Entrepreneurship And Innovation As Career Opportunity
9.	28.11.2021	Step By Step Guide To Masters Abroad And Profile Building
10.	12.12.2021	Entrepreneurship And Gaming Taking The Mainstream Stage
11.	09.01.2022	Workshop On Content Creation
12.	16.01.2022	Animation–Unraveling The Complexity
13.	23.01.2022	Workshop On Design Thinking, Critical Thinking And Innovation Design
14.	06.02.2022	Graphic Designing
15.	19.02.2022	Expert Talk on "Process Of Innovation Development & Technology Readiness Level (Trl)" Commercialisation of Lab Technologies & Tech-Transfer
16.	19.02.2022	Workshop on Entrepreneurship Skill, Attitude, and Behaviour Development
17.	26.03.2022 to 27.03.2022	Renaissance

**Details of Ongoing Externally Funded Research Project (UPTO 31.03.2022)  
(in Billion)**





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## **SCHOLARSHIP AND ASSISTANTSHIP PROVIDED TO STUDENTS**

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**8.1 Financial Help from the Institute for the Financial Year 2021-22**

**8.2 Scholarship and Assistantship**

## 8.1 FINANCIAL HELP FROM THE INSTITUTE FOR THE FINANCIAL YEAR 2020-21

(i) Rs.9,99,998/- was given to the financially weaker students as financial aid from student welfare fund.

(ii) During the financial year 2021-22 Gold Medals worth Rs.86,251/- were awarded to 12 students.

## 8.2 SCHOLARSHIP AND ASSISTANTSHIP

Sl. No.	Department	Place	No. of Students	Total Amount (INR)
<b>1. Central Sector</b>				
	Top Class Education Scheme for SC Students		105	-
	National Fellowship and Scholarship for Higher Education of ST Students		92	-
	Merit Cum Means Scholarship for Professional and Technical Course		25	-
	Scholarship for Top Class Education for students with Disabilities		44	-
	Central Sector Scheme of Scholarship for College and University Students	Dept. of Higher Education	41	-
		Jammu & Kashmir	03	-
<b>2. PMSSS</b>				
<b>3. State (U.P.)</b>				
	OBC Students		226	-
	SC/ST Student		266	-
	General Student	UP Govt.	101/19	-
	Minority Student		24	-
<b>4. Other States</b>				
	MP Scholarship	MP Govt.	20	-
<b>5. MNNIT</b>				
	M.Tech.		936	1,16,06,400/-
	Ph.D.		593	2,00,35,000/-
	Merit Scholarship	Institute	141	28,10,000/-
	Aid Scholarship		62	9,99,998/-
	G. K. Agrawal and Padmavati Scholarship		-	-
<b>6. Other Agency</b>				
	OP Jems	Other Agency	-	-
	Samsung Star	Other Agency	25	-
	Bihar Post Matric Scholarship	Bihar Govt.	83	-

## **FACULTY ACHIEVEMENTS**

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- 9.1 Department of Applied Mechanics**
- 9.2 Department of Biotechnology**
- 9.3 Department of Civil Engineering**
- 9.4 Department of Chemical Engineering**
- 9.5 Department of Chemistry**
- 9.6 Department of Computer Science & Engineering**
- 9.7 Department of Electrical Engineering**
- 9.8 Department of Electronics & Communication Engineering**
- 9.9 GIS Cell**
- 9.10 Department of Humanities & Social Sciences**
- 9.11 Department of Mathematics**
- 9.12 Department of Mechanical Engineering**
- 9.13 Department of Physics**
- 9.14 School of Management Studies**

## 9.1 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 ambiance.

### 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:

1. Advance Solid Mechanics Research Laboratory
2. Fluids Research Laboratory
3. Fluids Engineering Laboratory
4. Materials Research Laboratory
5. Biomedical Engineering Laboratory
6. Materials Development Laboratory
7. Computational Laboratory

8. Structural Analysis Laboratory
9. Strength of Materials Laboratory
10. Materials Science and Engineering Laboratory
11. Compressible Flow Laboratory
12. Fluid Mechanics and Hydraulics Laboratory
13. Vibration Laboratory
14. Dynamics of Machines Laboratory
15. AMD Workshop
16. Engineering Mechanics Laboratory
17. Robotics Laboratory
18. DST-FIST Computational Laboratory
19. Non-Destructive Testing Laboratory
20. Experimental Solid Mechanics Laboratory
21. Experimental Stress Analysis Laboratory

### Courses Run by Department:

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

### Courses in which students were admitted during 04/2021 - 03/2022:

1. M.Tech. Biomedical Engineering
2. M.Tech. Engineering Mechanics and Design
3. M.Tech. Fluids Engineering
4. M.Tech. Materials Science and Engineering

### List of Ph.D. Thesis Completed

Sl. No.	Name of Student	Reg. No.	Thesis Title	Thesis Supervisor(s)
1.	Dr. Abir Roy	2015RAM05	Mechanical behavior, Corrosion and Texture analysis of Al-Mg-Si alloy and pure Copper processed by MAC	Dr. Abhishek Kumar
2.	Dr. Gyanendra Tiwari	2016RAM02	Studies of Hydrodynamic Design and Performance Analysis of a Prototype Francis Turbine using CFD	Dr. Vivek Kumar Patel
3.	Dr. Rahul Singh	2014RAM52	Mechanical and Corrosion Behavior of Room Temperature Rolled, Cryo-Rolled and CGPed Austenitic Stainless Steels	Dr. Abhishek Kumar

**Total No. of M.Tech. Thesis Completed in Applied Mechanics : 51**

### Publication in International Journals:

1. Naveen Kumar, Ajaya Bharti, Akhilesh Kumar Chauhan; Effect of Ti Reinforcement on the Wear Behaviour of AZ91/Ti composites Fabricated by Powder Metallurgy &quot;
2. Naveen Kumar & Ajaya Bharti, "Review on Powder Metallurgy: A Novel Technique for Recycling Foaming Aluminium-based Materials," Powder Metallurgy and Metal Ceramics, 2020,

Materials Physics and Mechanics, 2021, [http://dx.doi.org/10.18149/MPM.4742021\\_7](http://dx.doi.org/10.18149/MPM.4742021_7), May 9, 2021 (Scopus)

- DOI 10.1007/s11106-021-00214-4, 09 July 2021. (SCI)
3. Priyanka Kumari, Ajaya Bharti, Vishnu Agarwal, Naveen Kumar and Kuldeep K. Saxena, "ZnO Coating on Silicon Rubber Urinary Catheter to Reduce the Biofilm Infections", *Advances in Materials and Processing Technologies*, 2021, doi.org/10.1080/2374068X.2021.1959105, 26 Jul 2021. (Scopus)
  4. Akash Gupta, Kuldeep K. Saxena, Ajaya Bharti, L. Jayahari, Kanwal Chadha, Prudvi Reddy Paresi, "Influence of ECAP Processing Temperature and Number of Passes on Hardness and Microstructure of Al6063", *Advances in Materials and Processing Technologies*, 2021, doi.org/10.1080/2374068X.2021.1953917, 29 Jul 2021. (Scopus)
  5. Hariom Tripathi, Ajaya Bharti, Kuldeep Kumar Saxena, Naveen Kumar, "Improvement in Mechanical Properties of Structural AZ91 Magnesium Alloy Processed by Friction Stir Processing", *Advances in Materials and Processing Technologies*, 2021, doi.org/10.1080/2374068X.2021.1949540, 10 August 2021. (Scopus)
  6. Piyush Pal, Suresh Kumar Patel, Ajaya Bharti, A. Narayan, Rahul Dev, Dhananjay Singh, "Energy, exergy, energy matrices, exergoeconomic & enviroeconomic assessment of modified solar stills," *Sustainable Energy Technologies and Assessments*, 2021, https://doi.org/10.1016/j.seta.2021.101514, 24 August 2021. (SCI)
  7. Naveen Kumar, Ajaya Bharti, Kuldeep K. Saxena "Effect of Ti Reinforcement on the Physical and Mechanical Properties of AZ91/Ti Composites", *Indian Journal of Engineering and Materials Sciences*, 2021, DOI: 10.56042/ijems.v28i6.46023, 1 September 2021. (SCI)
  8. Naveen Kumar, Ajaya Bharti, Kunvar Kant Patel, "The Evolution of Brake Friction Materials: A Review" *Materials Physics and Mechanics*, 2021, http://dx.doi.org/10.18149/MPM.4752021\_13, November 8, 2021. (Scopus)
  9. N. Kumar, A. Bharti, M. Dixit "Study on Powder Compaction Dies and Compressibility of Various Materials", *Powder Metallurgy and Metal Ceramics*, 2021, DOI 10.1007/s11106-021-00253-x, 01 December 2021. (SCI)
  10. Naveen Kumar, Ajaya Bharti, "Optimization of Powder Metallurgy Process Parameters to Recycle AZ91 Magnesium Alloy" *Materials Physics and Mechanics*, 2021, http://dx.doi.org/10.18149/MPM.4762021\_15, December 14, 2021. (Scopus)
  11. Naveen Kumar, Ajaya Bharti, Abhishek Kumar, Abhishek Nigam, "Effect of process parameters on the crystal-parameters of Cu-Zn spinel-ferrites" *Materials Physics and Mechanics*, 2021, P.65-73.DOI:10.18149/MPM.4712021\_7, December 2021, (Scopus)
  12. Naveen Kumar, Ajaya Bharti, Abhishek Kumar and Abhishek Nigam, "Effect of process parameters on the crystal- parameters of Cu-Zn spinel-ferrites", *Materials Physics & Mechanics*, vol.47, pp.65-73, 04/2021, (Scopus, IF=0.733)
  13. Abhishek Kundu, Murugan Thangadurai & Gautam Biswas, "Investigation on shear layer instabilities and generation of vortices during shock wave and boundary layer interaction", *Computers and Fluids*, vol.224, Issue 104966, pp.1-7, 04/2021, Published by Elsevier. (SCI, IF= 3.077)
  14. Vedrtnam Ajitanshu, Gunwant Dheeraj, Chaturvedi Shashkant, Sagar Dheeraj and S. J. Pawar, "Experimental and Numerical Study on Abrasive Water Jet Machining of Laminated Glass", *Glass Technology: European Journal of Glass Science and Technology Part A*, vol.62, Issue 2, pp.65-74, 04/2021. (SCI, IF=5.105)
  15. Anurag Tiwari, Siddharth Sharma, Vivek Kumar Srivastav, Anuj Jain, Akshoy Ranjan Paul, "Computational Study of Atomisation Models and Optimal Design of a Pressurized Inhaler", *Journal of Biomimetics, Biomaterials and Biomedical Engineering*, vol.50, pp.123-134, 04/2021, Published by Trans Tech. (SCI, IF=0.7)
  16. Abir Roy and Abhishek Kumar, "Corrosion behaviour of Multiaxial compressed AlMgSi alloy", *Defence Science Journal*, vol.71, Issue 3, pp.359-364, 05/2021. (SCI, IF=0.707)
  17. S. E. Kishore, R. Sujithra, B. Dhatrey, "A review on latest acoustic noise mitigation materials", *Materials Today: Proceedings*, vol.47, Issue 14,

- pp.4700-4707, 05/2021, Published by Elsevier. (Scopus)
18. Tushar Sharma, V. Murari and K. K. Shukla, "Effects of Aerofoil, Twist and Wind Speed on the Structural Response of 1D Finite Element model of Wind Turbine Blade (accepted for publication)", *Journal of Structural Engineering (CSIR-SERC)*, 06/2021, Published by CSIR-SERC. (Scopus)
  19. Tushar Sharma, Santanu Choudhury, V. Murari and K. K. Shukla, "The effect of shear web on the dynamic response of a wind turbine blade subjected to actual dynamic load", *Journal of Materials: Design and Applications*, vol.235, Issue 8, pp.1868-1878, 06/2021, Published by Sage Publishers. (Scopus, IF=2.663)
  20. Rahul Singh, Samarjit Singh, B. Kranthi Kumar, Abhishek Kumar, "Mechanical behaviour and corrosion study of 304L austenitic steel processed by constrained groove pressing", *Indian Journal of Engineering and Materials Sciences*, vol.28, pp.258-264, 06/2021, (SCI, IF=0.881)
  21. A. K. Tiwari, A. Goyal & J. Prasad, "Modeling cortical bone adaptation using strain gradients", *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*, vol.235, Issue 6, pp.636-654, 06/2021, Published by SAGE. (SCI, IF = 1.87)
  22. Akshoy Ranjan Paul, Firoz Khan, Anuj Jain and Suvash Chandra Saha, "Deposition of Smoke Particles in Human Airways with Realistic Waveform", *Atmosphere*, vol.12, Issue 7, pp. 912, 07/2021, Published by MDPI. (SCI, IF= 2.686)
  23. Abhishek Nigam, Sheetal Saini, Ambak Kumar Rai and S. J. Pawar, "Structural, Optical, Cytotoxicity and Antimicrobial Properties of MgO, ZnO and MgO/ZnO Nanocomposite for Biomedical Applications", *Ceramics International* vol.47, Issue 14, pp.19515-1952, 07/2021. (SCI, IF=3.83)
  24. N. Shrivastava, A. K. Tiwari, R. Kumar, S. Patil & D. Trpathi, "Physiological loading-induced interstitial fluid dynamics in osteon of osteogenesis imperfecta bone", *ASME: Journal of Biomechanical Engineering*, vol.143, Issue 8, pp.081011, 08/2021, Published by ASME. (SCI, IF=1.899)
  25. Anurag Tiwari, Anuj Jain, Akshoy Ranjan Paul, Suvash Saha, "Computational Evaluation of Drug Delivery in Human Respiratory Tract under Realistic Inhalation", *Physics of Fluids*, vol.33, 08/2021, Published by AIP. (SCI, IF=3.521)
  26. R. Sujithra & D. Saritha, "Effect of fill pattern and printing speed on friction characteristics of FDM printed polylactic acid polymer", *Advances in Materials Processing and Technologies*, 08/2021, Published by Taylor and Francis. (Scopus)
  27. Abhishek Nigam, Sheetal Saini, Ambak Kumar Rai and S. J. Pawar, "Structural, Morphological, Antimicrobial, and Cytotoxicity Study of Spindle-shaped ZnO Submicron Particles for Potential Biomedical Applications", *Materials Today Communications*, vol.28, Issue 18, pp.102683, 09/2021. (SCI)
  28. Yogesh Chandra, Anuj Jain & R. P. Tewari, "Experimental Studies on Acrylic Dielectric Elastomers as Actuators for Artificial Skeletal Muscle Application", *International Journal of Biomedical Engineering and Technology*, vol.37, Issue 1, pp.65-82, 09/2021, Published by Inder Science. (Scopus, IF=0.59)
  29. Vivek Kumar Srivastava, Rakesh Kumar Shukla, Akshoy Ranjan Paul & Anuj Jain, "Computational Study on the Effect of Human Respiratory Wall Elasticity", *International Journal of Biomedical Engineering and Technology*, vol.37, Issue 1, pp. 46-64, 09/2021, Published by Inder Science. (Scopus, IF=0.59)
  30. J. Prakash, D. Tripathi, O. A. Beg, A. K. Tiwari and R. Kumar, "Thermo-electrokinetic rotating non-Newtonian hybrid nanofluid flow from an accelerating vertical surface", *Heat Transfer*, vol. 51, Issue 2, pp.1746-1777, 10/2021, Published by Wiley. (SCI, IF=3.75)
  31. Sunkulp Goel, Dharmendra Singh, Nikhil Kumar, Abhishek Kumar Chauhan & Punit Singh, "Effect of water and mercury quenching on the microstructure and mechanical behavior of room temperature rolled Zircaloy-2", *Indian Journal of Engineering & Materials Sciences*, vol.29, pp. 432-436, 10/2021, Published by CSIR-NISCAIR. (SCI, IF=0.615)

32. S. Singh, S. K. Singh, R. Singh, A. Kumar & A. Nigam, "Effect of Ni on the dielectric behavior and microwave absorption performance of ZnO composites", *Materials Physics and Mechanics*, vol.47, Issue 3, pp.416-422, 10/2021. (Scopus, IF=0.733)
33. Deepak Kumar Singh, Anuj Jain & Akshoy Ranjan Paul, "Active Flow Control over NACA23012 Airfoil using Hybrid Jet", *Defence Science Journal*, vol.71, Issue 6, pp.721-729, 10/2021, Published by DRDO. (SCI, IF=0.589)
34. Krishna Kumar, Rajnath Yadav, Akshoy Ranjan Paul and Anuj Jain, "Performance Evaluation of a Twin Air-Intake: Effects of Geometry, Reynolds Number and Jet Momentum Coefficient", *The European Physical Journal Plus*, vol.136, Issue 10, pp.998, 10/2021, Published by Springer. (SCI, IF=3.911)
35. Shalini Verma, Akshoy Ranjan Paul & Anuj Jain, "Performance investigation & energy production of a novel horizontal axis wind turbine with winglet", *International Journal of Energy Research*, vol.46, Issue 4, pp.4947-4964, 11/2021, Published by Wiley. (SCI, IF=5.164)
36. T. Gobikannan, Habtemariam Berihun, Eset Akilu, S. J. Pawar, Genzeb Akele, Tewodros Agazie and Seyoum Bihonegn, "Development and Characterization of Sisal Fiber and Wood Dust-Reinforced Polymeric Composites", *Polymeric Composites*, vol.18, Issue 11, pp. 1924-1933, 11/2021. (SCI)
37. Rakesh Kumar, Abhishek Kumar Tiwari, Dharmendra Tripathi and Ashutosh Mishra, "Electromagnetic field induced alterations in fluid flow through lacuno-canalicular system of bone", *International Journal of Mechanical Sciences*, vol.217, pp.107036, 12/2021, Published by Elsevier. (SCI, IF=6.77)
38. ShagunVarshney, Abhishek Nigam, S. J. Pawar, and Nidhi Mishra, "An Overview on Biomedical Applications of Versatile Silica Nanoparticles, Synthesized via Several Chemical and Biological Routes: A Review", *Phosphorus, Sulfur, and Silicon and the Related Elements*, vol.197, Issue 2, pp.72-88, 02/2022. (SCI, IF=1.082)
39. Sushil Kumar Singh, Dheeraj Gunwant, Ajitanshu Vedrtam, Abhishek Kumar and Anuj Jain, "Synthesis, Characterization, and Modelling the Behavior of in-situ ZrO<sub>2</sub> Nanoparticles Dispersed Epoxy Nanocomposite", *Engineering Fracture Mechanics*, 02/2022. (SCI, IF=4.406)
40. Taufeeq Ahmad, Ashutosh Mishra, Subrata Ghosh, and Carlo S. Casari, "Identifying Efficient Cooling Approach of Cylindrical Lithium Ion Batteries", *Energy Technology*, pp.2100888, 02/2022, Published by Wiley. (SCI, IF=4.19)
41. Digamber Singh, A. R. Paul & Anuj Jain, "Numerical Assessment of a 3-D Human Upper Respiratory Tract Model: Effect of Anatomical Structure on Asymmetric Tidal Pulmonary Ventilation Characteristics", *International Journal of Biomedical Engineering and Technology*, vol.38, Issue 3, pp.225-248, 03/ 2022, Published by Inder Science. (Scopus, IF=0.59)
42. R. Kumar, A. K. Tiwari, D. Tripathi & A. Mishra, "Electromagnetic Field Induced Alterations in Fluid Flow through Lacuno-Canalicular System of Bone", *International Journal of Mechanical Sciences*, vol.217, pp.107036, 03/2022, Published by Elsevier. (SCI, IF = 6.77)
43. D. Saritha, C. H. Sandeep & R. Sujithra, "Current advancement on anode materials for Na-ion batteries: Review", *Materials Today: Proceedings*, vol.62, Issue 6, pp.3022-3026, 03/2022, Published by Elsevier. (Scopus)
44. MuruganThangadurai, Abhishek Kundu, Gautam Biswas, "Analysis of shock wave-boundary layer interaction in a shock tube using higher order scheme", *Computers and Fluids*, vol.236, Issue 105305, pp.1-13, 03/2022, Published by Elsevier. (SCI, IF=3.077)
45. M. Chandra, K. Kumar, P. Thakur, S. Chattopadhyaya, F. Alam, Amp & S. Kumar, (2022). *Digital technologies, health care & Covid*.
46. M. Chandra, S. Kumar, S. Chattopadhyaya Chatterjee, S. P. Kumar, (2021). *A review on developments of deployable membrane*.
47. S. D. Shinde, S. Kumar, Amp & S. H. Upadhyay, (2021). *Investigation on material combination technique to enhance the anti*.

#### Publication in National Journals

1. Deepak Kumar and S. J. Pawar, "Compressive Behavior of Green Concrete Partially Reinforced



with Dry Coconut Shell Aggregates as a Replacement of Coarse Aggregates", AMC Indian Journal of Civil Engineering, vol.3, Issue 1, pp.7-15, 01/2022.

#### Publication in International Conferences

1. Shalini Verma, Akshoy Ranjan Paul, Anuj Jain and Firoz Alam, "Numerical Investigation of Stall Characteristics for Winglet Blade of a Horizontal Axis Wind Turbine", 13<sup>th</sup> International Conference on Computational Heat Mass and Momentum Transfer (ICCHMMT-2021), Paris (France), 05/2021.
2. Arvind Kumar, Abhishek Gupta, Shalini Verma, Akshoy Ranjan Paul & Anuj Jain and Naws had Haque, "Life cycle assessment based environmental footprint of a battery recycling process", Third International Conference on Intelligent Manufacturing & Energy Sustainability (ICIMES 2021), MRCET Hyderabad, India. 06/2021.
3. Aquib Ahmad Siddiqui, V. Murari, Satish Kumar, "Simulation of Deployment of Inflatable Structures through Uniform Pressure Method", International Conference on Advanced Manufacturing and Materials Processing (CAMMP 2021), MNIT Jaipur, 07/2021.
4. Kshitij Bajpai & Abhishek Kundu, "Effect of intermixing on thermal performance of converged-diverged microchannel heat sink used in high heat flux applications", International conference on progressive research in Industrial & Mechanical Engineering, NIT Patna, 08/2021, Published by Springer.
5. Vivek Kumar & Abhishek Kundu, "Numerical simulation of a Lid-Driven cavity problem by solving general pressure equation using openfoam: A solver validation", International conference on Mechanical Engineering, NSUT New Delhi, 11/2021, Published by Springer.
6. Datti Ganapathi & Abhishek Kundu, "Numerical simulations of an interaction of a blast wave produced from a shock tube with an object placed at various positions", International conference on Mechanical Engineering, NSUT New Delhi, 11/2021, Published by Springer.
7. Vivek Kumar and S. J. Pawar, "A Brief Review on Acoustic Glue: An Effective Way to Control Unpleasant Sound", International Conference on Research & Development in Civil Engineering RDCE'21 (Virtual), Department of Civil Engineering, SVKM's Institute of Technology, Dhule, Maharashtra, India, 12/2021.
8. Abhishek Kundu, Anupam Sinha, Gautam Biswas & Murugan Thangadurai, "Heat transfer enhancement using rectangular-winglet-type vortex-generators on the annular fins", 26<sup>th</sup> National and 4<sup>th</sup> International conference of Heat and Mass Transfer (IHMT-2021), IIT Madras, 12/2021, Published by Begell House.
9. Abhishek Kundu & Murugan Thangadurai, "Interaction of shock tube generated blast wave with a rectangular object at two pressure ratios: Numerical simulations and their comparison", 48<sup>th</sup> National Fluid Mechanics and Fluid Power Conference (FMFP-2021), BITS Pilani, 12/2021, Published by Springer.
10. V. Raghuvanshi, Amp & S. Kumar, (2021) Scaling Analysis of Rectangular Planner Membrane Structures Considering Various Parameters, International Conference on Mechanical Engineering (INCOME-2021), 25-26 November, 2021, Netaji Subhas University of Technology, New Delhi, India.
11. V. Kumar, R. Pandey, Amp & S. Kumar (2021), A Finite Element Method of Free Vibration Analysis of Functionally Graded Beam, International Conference on Mechanical Engineering (INCOME-2021), 25–26 November, 2021, Netaji Subhas University of Technology, New Delhi, India.
12. K. Patel, & Amp, S. Kumar, (2021) Vibration Analysis of Membrane Based Inflatable Torus, International Conference on Mechanical Engineering (INCOME-2021), 25 - 26 November, 2021, Netaji Subhas University of Technology, New Delhi, India. (Accepted)
13. S. Pandey, Amp, & S. Kumar, (2021), "A Numerical Analysis of the effect of wind speed on Hybrid Energy Harvesting System, International Conference on Mechanical Engineering (INCOME-2021), 25–26 November, 2021, Netaji Subhas University of Technology, New Delhi, India.

14. A. Siddiqui, V. Murari, Amp & S. Kumar, (2021) Simulation of Deployment of Inflatable Structures Through Uniform Pressure Method, International Conference on Advanced Manufacturing and Materials Processing (CAMMP 2021), July 24-25, 2021, MNIT Jaipur, India.
  15. Ankit Prakash, Kuldeep Singh, Nishant Sati, Piyush Pratap Singh, R. P. Tewari & Anubhav Rawat, "Performance evaluation of axial blood pump using computational fluid dynamics", In Proc. 2<sup>nd</sup> National & 1<sup>st</sup> International Conference on Advances in Fluid Flow and Thermal Sciences (ICAFFTS-2021), SVNIT Surat, 09/2021, Paper Id CMS-124.
  16. Priyanka Kumari, Ajaya Bharti, Vishnu Agarwal, Naveen Kumar and Kuldeep K. Saxena, "ZnO Coating on Silicon Rubber Urinary Catheter to Reduce the Biofilm Infections", In the proceeding of 12<sup>th</sup> International conference on Materials processing and characterization (12 TH ICMPC), Organized at NITTR Chandigarh, India during 06-08 Oct 2021.
  17. Akash Gupta, Kuldeep K. Saxena, Ajaya Bharti, L. Jayahari, Kanwal Chadha, Prudvi Reddy Paresi, "Influence of ECAP Processing Temperature and Number of Passes on Hardness and Microstructure of Al6063", in the proceeding of 12<sup>th</sup> International conference on Materials processing and characterization (12<sup>th</sup> ICMPC), Organized at NITTR Chandigarh, India during 06-08 Oct 2021.
  18. Hariom Tripathi, Ajaya Bharti, Kuldeep Kumar Saxena, Naveen Kumar, "Improvement in Mechanical Properties of Structural AZ91 Magnesium Alloy Processed by Friction Stir Processing", in the proceeding of 12<sup>th</sup> International conference on Materials processing and characterization (12<sup>th</sup> ICMPC), Organized at NITTR Chandigarh, India during 06-08 Oct 2021.
  19. Devendra Prasad, G Naga Srinivaslu, Ajaya Bharti, Naveen Kumar, Syed Mohd Azam, Kuldeep K. Saxena "Experimental Analysis on Flow Field Pattern of PEM Fuel Cells" In the proceeding of "International conference on Applied Research and Engineering & quote; organized at Mechanical Engineering Department, FEBE, Cape Peninsula University of Technology, South Africa during 26-28 November, 2021.
  20. Devendra Prasad, G Naga Srinivaslu, Ajaya Bharti, Naveen Kumar, Venkateswarlu Velisala, Akhilesh Kumar Chauhan & Kuldeep K. Saxena "Simulation Analysis on Flow Field Pattern of PEM Fuel Cells" In the proceeding of "International conference on Applied Research and Engineering & quote; organized at Mechanical Engineering Department, FEBE, Cape Peninsula University of Technology, South Africa during 26-28 November, 2021.
- ### Publication in National Conferences
1. Sourabh Kumar Singh, Avadesh Yadav, Satish Kumar, and Abhishek Kumar, "Analysis of shape memory polymer-based space actuators", ASET-2022, Vikram Sarabhai Space Centre, Thiruvananthapuram, 03/2022,
  2. Kuldeep Singh and Satish Kumar, Simulation of wrinkling behavior of thin membrane structures National Conference on Artificial Intelligence enabled Aerobots and Hydrobots (ASET-2022), Vikram Sarabhai Space Centre, Thiruvananthapuram, March 17 - 18, 2022
  3. Ankit Prakash, Nishant Sati, Piyush Pratap Singh, Sajal K. B. Degala, Anubhav Rawat, Ramesh Pandey, R. P. Tewari, "Design of economic PODS to safeguard against contagious diseases using computational fluid dynamics (CFD)", Journal of Physics: Conference Series, vol. 1849, no. 1, p. 012006. IOP publishing, 2021. (Scopus)
- ### Patents
1. Patent no.202111020581 A, Entitled A smart temperature measuring system with minimal human intervention, Applied on 05/05/2021. The details are follows < Patent for industrial use to measure temperature.
  2. Patent no.202111020581, Entitled a Smart Temperature Measuring System with Minimal Human Intervention, Applied on 29/10/2021. The details are follows < R. P. Tewari, R. Pandey, A. Mishra, A. K. Tiwari, S. B. Degala.

**Reviewer in International Journals and Conferences**

Sl. No.	Faculty Name	Journal Name
1.	Dr. Abhishek Kumar Tiwari	IEEE Access FLAME Computer Methods in Biomechanics and Biomedical Engineering BONE
2.	Dr. Abhishek Kundu	Life Sciences in Space Research Computers and Fluids 26 <sup>th</sup> National and 4 <sup>th</sup> International conference of Heat and Mass Transfer (IHMT-2021)
3.	Dr. Ajaya Bharti	Materials Today: Proceedings, Elsevier Part B: Journal of Engineering Manufacture, SAGE Publication Ceramics International, Elsevier Walailak Journal of Science and Technology Indian Journal of Engineering and Materials Sciences, NISCAIR, India Journal of Advances in Materials & Processing Technologies, Taylor & Francis Materials Science Forum (Elsevier) Engineering Fracture Mechanics (Elsevier) International Journal of Engine Research (SAGE Publication)
4.	Dr. Akshoy Ranjan Paul	Journal of Cleaner Production Journal of Applied Fluid Mechanics (JAFM) 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' International Communications on Heat & Mass Transfer Wind Engineering
5.	Dr. Anindya Bhar	Composites Part B Mechanics of Advanced Materials and Structures Arabian Journal for Science and Engineering International Journal of Engineering, Science and Technology Proceedings of the National Academy of Sciences, India Section-A, Physical Sciences International Journal of Mechanical Sciences International Journal of Applied Mechanics
6.	Dr. Anubhav Rawat	Tribology in Industry International Conference On Quality, Productivity, Reliability, Optimization and Modeling, Tribology Letters Powder Technology Advances in Mechanical Engineering 2 <sup>nd</sup> International Conference on New Frontiers in Engineering, Science and Technology, Nuclear Engineering and Design FDMP-Fluid Dynamics & Materials Processing

- Proceedings of the Institution of Mechanical Engineers, Part C:  
Journal of Mechanical Engineering Science  
Particulate science and Technology  
1<sup>st</sup> IEEE international conference on simulation, automation and  
manufacturing (SASM-2021) organised by Department of  
Mechanical Engineering, GLA University, Mathura  
Iranian Journal of Science and Technology, Transactions of  
Mechanical Engineering  
Journal of Marine Science and Engineering (JMSE), MDPI  
Machines – MDPI  
Sustainability Journal, MDPI  
International Journal of Powder Technology  
Engineering Fluid Mechanics, 12e by Donald F. Elger, Barbata A.  
LeBret, Clayton T. Crowe, John A. Roberson (Wiley India)  
Munson, Young and Okiishis Fundamentals of Fluid Mechanics, 9e  
by Philip M. Gerhart, Andrew L. Gerhart, John I. Hochstein (Wiley  
India)
7. Dr. Anuj Jain  
Powder Technology  
Experimental Thermal and Fluid Science  
Journal of Flow Visualisation and Image Processing  
International Conference on Futuristic Advancements in Materials,  
Manufacturing and Thermal Sciences (ICFAMMT 2022)  
Journal of Advanced Research in Applied Mechanics and  
Computational Fluid Dynamics
8. Dr. Ashutosh K. Upadhyay  
Applied Mathematical Modelling  
Int. J. of Mechanical Sciences  
Int. J. of Crashworthiness  
Wind and Structures  
Thin Walled Structures  
Advances in Materials Research  
Int. J. of Materials and Structural Integrity  
Journal of Mechanical Engg. Sciences  
J. of Aerospace Engineering  
Smart Structures and Systems  
Int. J. of Structural Stability and Dynamics  
Journal of The Institution of Engineers (India) Series A  
Mechanics of Advanced Materials and Structures  
International Journal of Mechanical Sciences
9. Dr. Ashutosh Mishra  
Latin American Journal of Solids and Structures  
Journal of Materials Engineering and Performance
10. Dr. R. Sujithra  
Journal of Materials Engineering and Performance
11. Dr. Ramesh Pandey  
Aerospace Engineering  
Composite Structures  
A refined five-unknown higher-order model including transverse  
hydrothermal deformation”, COST-D-16-00219
12. Dr. S. J. Pawar  
International Journal of Magnetism and Electromagnetism  
Applied Biochemistry and Biotechnology  
Journal of Industrial Textiles

**Book(s)/Book(s) Chapter(s) Authored**

SI.No.	Faculty Name	Book	Book Chapter	Publisher
1.	Vineet Kumar Tiwari, A. R. Paul, Anuj Jain, Chattopadhyay, Somnath; Shankar, Sachindra; & Vilaca, Pedro	Advances in Manufacturing Engineering and Materials II	Computational Study of Metal Flow Behavior of AA 6061 in Friction Stir Processing with Twin Tools	Lecture Notes in Mechanical Engineering, Springer Nature, pp. 386–391
2.	Anil Kumar Maurya, Anuj Jain & Akshoy Ranjan Paul	Advances in Manufacturing Engineering and Materials II	Effect of Tool Rotation Speed on Friction Stirred Material Flow Behavior of AA6061-T6 Aluminum Alloys	Lecture Notes in Mechanical Engineering, Springer Nature, pp. 355–360
3.	Ashish Mishra, A. R. Paul, Anuj Jain & Firoz Alam	Advances in Heat Transfer and Thermal Engineering	Design and Analysis of Synthetic Jet for Micro-channel Cooling	Springer Singapore, pp. 315-320
4.	Abhishek Kundu, Anubhav Rawat, Sujit Nath, Manish Pandey	Adaptation of Munson, Young & Okiishi's Fundamentals of Fluid Mechanics, 9 <sup>th</sup> Edition (International Edition)	Chapter-5,6,10 & 11	Willey
5.	Aayushi Soni, R. Sujithra & R. P. Tewari	Lecture Notes in Mechanical Engineering	A review on magnetorheological fluids & its application in lower limb prosthetic devices	Springer Nature
6.	Anurag Tiwari, A. R. Paul, Anuj Jain, Suvash C. Saha	Handbook of Lung Targeted Drug Delivery System: Recent trends and Clinical Evidences	Design of Efficient Dry Powder Inhalers	Taylor & Francis, CRC Press, Florid USA, pp. 129-154
7.	Abhishek Kundu, Manish Pandey	Adaptation of Fox & McDonald's Introduction to Fluid Mechanics, 10 <sup>th</sup> Edition (Indian Edition)	8-12	Wiley
8.	Anubhav Rawat	Adaptation of Munson, Young & Okiishi's Fundamentals of Fluid Mechanics, 9 <sup>th</sup> Edition (International Edition)	Chapter-1, 2, 3, 4, 8, 9, 12	Willey
9.	Anubhav Rawat, Anuj Shukla	Engineering Fluid Dynamics, 12e, Donald F. Elger, Barbara A. LeBret, Clayton T. Crowe,	Complete Book	Willey

**Invited Lectures Delivered**

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| <p>1. Lecture delivered by Dr. Abhishek Kumar at Online Short-Term Training Program on Advances in Mechanical Engineering for Sustainability at Engineering College Bikaner, Rajasthan, on 27/05/2021 entitled Effect of Multi Axial Compression on Mechanical Behavior of Al-Mg-Si Alloy.</p> <p>2. Lecture delivered by Dr. Abhishek Kumar at Online Faculty Development Program on FEM &amp; its Applications in Recent Materials Technology at Engineering College Bikaner, Rajasthan, on</p> | <p>10/03/2022 entitled Advancement in Nano Composite Materials.</p> <p>3. Lecture delivered by Dr. Abhishek Kumar at Online Faculty Development Program on Innovative Technologies in Mechanical Engineering at Engineering College Bikaner, on 22/03/2022 entitled Study of severe plastic deformations of metallic materials.</p> <p>4. A lecture is delivered by Dr. Satish Kumar at Webinar Series on Aerospace Materials and Applications, SBU, Greater Noida, and Indian Space Industries Exhibitoers (ISIE), Ahmedabad,</p> |
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- on 25/02/2022 entitled Materials for Inflatable Structures.
5. A lecture is delivered by Dr. Anubhav Rawat on Introduction to two phase flow and heat transfer on 28/12/2021 for the One-Week Short-Term Course on Experimental and Numerical Approaches to Two-Phase Heat Transfer (December 27 to 31, 2021) organised by the Department of Mechanical Engineering, NITK, Surathkal.
  6. A lecture is delivered by Dr. Anubhav Rawat on 'Modelling & Optimization of Slurry Flow using ANN' at Department of Mechanical Engineering Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur, Chhattisgarh, India, In ATAL FDP on Slurry Flow in Mineral Processing –Principle & Practices, December 6<sup>th</sup>–10<sup>th</sup>, 2021.
  7. A lecture is delivered by Dr. Anubhav Rawat on 'Bend Geometry effect on Slurry Flow' at Department of Mechanical Engineering Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur, Chhattisgarh, India, In ATAL FDP on Slurry Flow in Mineral Processing – Principle and Practices, December 6<sup>th</sup>–10<sup>th</sup>, 2021.
  8. A lecture is delivered by Dr. Anubhav Rawat on 'Plug Flow Model in Slurry Flow' at Department of Mechanical Engineering Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur, Chhattisgarh, India, In ATAL FDP on Slurry Flow in Mineral Processing –Principle and Practices, December 6<sup>th</sup>–10<sup>th</sup>, 2021.
  9. Dr. Ajaya Bharti, Delivered a keynote lecture in the International conference on “Sustainable Innovation in Mechanical Engineering (ICSIME-2K21)” organized by Faculty of Engineering & Technology, Rama University Kanpur, Kanpur, India during 28-29 May 2021.

#### Events Organized by Department

Sl. No.	Name	Title	From	To
1.	One-week Short Term Course	Modeling and Simulation in Solid and Fluid Mechanics-I, MNNIT Allahabad (Online Mode)	15.11.2021	19.11.2021
2.	One-week Short Term Course	Modelling of Multiphase Flows (MMF-2021), MNNIT Allahabad (Online Mode)	27.9.2021	01.10.2021
3.	One-Week Short Term Course	Experimental and Numerical Approaches to Two-Phase Heat Transfer	27.12.2021	31.12.2021
4.	Online Conference	2 <sup>nd</sup> National and 1 <sup>st</sup> International Conference on Advances in Fluid Flow and Thermal Sciences (ICAFFTS-2021)	24.09.2021	25.09.2021

#### Events Attended

Sl. No.	Name	Title	From	To
1.	Dr. Ajaya Bharti	Presented a paper titled as “Influence of ECAP Processing Temperature and Number of Passes on Hardness and Microstructure of Al6063” in the conference named as 12 <sup>th</sup> International Conference on Materials Processing and Characterization (ICMPC-2021)” organized by NITTR Chandigarh, Chandigarh, India	06.10.2021	09.10.2021
2.	Dr. Ajaya Bharti	As an “Organizing Secretary” organized an “International Conference on Applied Research and Engineering (ICARAE-2021)” at Mechanical Engineering Department, FEBE, Cape Peninsula University of Technology, South Africa	26.11.2021	28.11.2021

**Research Projects Completed/Ongoing**

Sl. No.	Principal Investigator /Co investigator(s)	Project Title	Funding Agency	Amount (INR)	Duration
1.	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.	Rs. 11.94 Lakhs	Completed
2.	Dr. Satish Kumar (Co-PI)	Design & Development of a Proof-of-Concept Model of a Doubly Curved Membrane based Space Structure	TEQIP Collaborative Research Scheme	Rs.97.50 Lakhs	Ongoing
3.	Dr. Akshoy Ranjan Paul (PI)	Flow Control in Complex Ducts using Synthetic Jets	DST-SERB Fast Track Research Scheme	Rs. 23.93 Lakhs	Completed
4.	Dr. V. Murari (PI)	The effect of axial tension and temperature on stress distribution in SiCfibres at different stages of pyrolysis process	DRDO (DMSRDE Kanpur)	Rs. 6.30 Lakhs	Ongoing
5.	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 Uttar Pradesh under Technology Innovation scheme	Rs. 11.48 Lakhs	Completed
6.	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 Uttar Pradesh under Technology Innovation Scheme	Rs. 13.00 Lakhs	Completed
7.	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	Rs.11.00 Lakhs	Completed
8.	Dr. V. Murari (PI)	The effect of micro level progressive matrix plasticity on the macro level response of unidirectional composites: Micromechanics based study	DST - SERB	Rs.24.86 Lakhs	Ongoing
9.	Dr. Abhishek Kundu (PI)	Effect of boundary layer growth on blast wave mitigation studies inside a shock tube	SERB	Rs.28.17 Lakhs	Ongoing
10.	Dr. Akshoy Ranjan Paul (Co-PI)	Computational Studies on Human Airways	SERB under FSER Scheme	Rs. 38.50 Lakhs	Completed
11.	Dr. Anuj Jain (PI)	Experimental & Computational Studies on Human Airway	SERB under FSER Scheme	Rs. 38.00 Lakhs	Completed

**Other Relevant Information**

1. Dr. Abhishek Kundu received best session paper award in 48<sup>th</sup> National Conference on Fluid

Mechanics and Fluid Power (FMFP 2021) held on December 27-29, 2021 BITS Pilani.



2. Dr. Anubhav Rawat has been the evaluator for Preliminary rounds of Toyathon-2021, organised by Ministry of Education Innovation Cell, 2022.

## 9.2 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 Laboratory
5. Green house Laboratory
6. Experimental field
7. Autoclaving and sterilization Laboratory

### Courses run by Department:

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

### Courses in which students were admitted during 04/2021 - 03/2022:

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.	Title	Supervisor(s)
1.	Pramod Kumar Maurya	2015RBT54	Studies on differential gene expression during YB-1 silencing in colon cancer	Dr. Ashutosh Mani
2.	Shweta Srivastava	2015RBT52	In silico identification of antifungal agents against novel drug targets of <i>Aspergillus fumigatus</i>	Dr. Ashutosh Mani
3.	Shruti Jain	2016RBT52	Deciphering the mitigation of herbicide induced toxicity through silicon application in Wheat ( <i>Triticum Aestivum</i> ) seedlings	Prof. Shivesh Sharma
4.	Jaspreet Singh	2016RBT01	Development and evaluation of herbal formulation for topical applications against fungal infections	Prof. Shivesh Sharma
5.	Devendra Singh	2015RBT53	Development of herbal formulation against Bacillary dysentery and its in vitro and in vivo analysis	Dr. Vishnu Agarwal

### Total No. of M.Tech. Thesis Completed in Biotechnology : 09

pp.542-549, 04/2021, Published by American Scientific Publishers. (Scopus)

### Publication in International Journals

1. Anjana Pandey, Himanshu Kachroo, Saumya Srivastava, Thomas Yeager, "Cytotoxicity evaluation of Titania and Silver doped Titania on Human colorectal cells", *Sensor Letters*, vol.18,
2. Rehman, N., & Pandey, A. (2021). An Overview of COVID-19 and Its Vaccines. *Biology Bulletin Reviews*, 11(1), 47-64, (SCI, IF=0.39)
3. P. Rai, A. Pandey & A. Pandey (2022). Evaluation of low cost immobilized support

- matrices in augmentation of biohydrogen potential in dark fermentation process using *B. licheniformis* AP1. *Fuel*, 310, 122275, (SCI, IF= 8.035)
4. Aggarwal, Vaishali, Hardeep Singh Tuli, Mousumi Tania, Saumya Srivastava, Erin E. Ritzer, Anjana Pandey, Diwakar Aggarwal et al. "Molecular mechanisms of action of epigallocatechin gallate in cancer: Recent trends and advancement." In *Seminars in cancer biology*. Academic Press, 2022, 256-257, (SCI, IF =17.012)
  5. Abhishek Sharan, Seema Nara, "Exposure based ecotoxicity assessment of Co3O4 nano particles in marine microalgae", *Environmental Science and Pollution Research*, 05/2021, Published By Springer. (SCI, IF=3.056)
  6. Tripathi, D. K., Rai, P., Guerriero, G., Sharma, Shivesh, Corpas, F. J., & Singh, V. P., "Silicon induces adventitious root formation in rice (*Oryza sativa* L.) under arsenate stress with the involvement of nitric oxide and indole-3-acetic acid", *Journal of Experimental Botany*, vol.12, Issue 72, pp.4457-4471, 05/2021, Published By Oxford University Press. (SCI , IF = 6.99)
  7. Van Hullebusch, E. D., Singh, N. K., Mal, J., "Biotechnological intervention for societal development (BioSangam 2020)", *Environmental Science and Pollution Research*, pp.1-3, 05/2021, (SCI)
  8. Prakash, V., Peralta-Videa, J., Tripathi, D. K., Ma, X., & Sharma, Shivesh, "Recent insights into the impact, fate and transport of cerium oxide nanoparticles in the plant-soil continuum", *Ecotoxicology and Environmental Safety*, vol.221, 06/2021, Published by Elsevier. (SCI, IF = 6.291)
  9. Shweta Srivastava, Neha Shree Maurya, Shikha Kushwah and Ashutosh Mani, "Current Promising Therapeutic Targets for Aspergillosis Treatment", *J Pure Appl Microbiol.* 2021;15(2): 484-499. <https://doi.org/10.22207/JPAM.15.2.09>, vol.15, Issue 2, 08/2021, (SCI)
  10. Abhishek Nigam, Sheetal Saini, Ambak Kumar Rai, S.J. Pawar, "Structural, morphological, antimicrobial, and cytotoxicity study of spindle-shaped ZnO submicron particles for potential biomedical applications.", *Materials Today Communications*, vol.28, Issue 102683, 08/2021, (SCI)
  11. Kumar V, Gupta S, Chaurasia A, Sachan M., "Evaluation of Diagnostic Potential of Epigenetically Deregulated MiRNAs in Epithelial Ovarian Cancer.", *Front Oncol*, Issue 11, pp.doi: 10.33, 10/2021, Published By Frontiers. (SCI , IF = 5.75)
  12. Singh A, Gupta S, Sachan M., "Evaluation of the Diagnostic Potential of Candidate Hypermethylated Genes in Epithelial Ovarian Cancer in North Indian Population.", *Front Mol Biosci.*, Issue 8, pp.doi: 10.33, 10/2021, Published by Frontiers. (SCI , IF = 6.12)
  13. J. Mal, A.. S. Roy & P.N.L. Lens, "Simultaneous removal of lead and selenium through biomineralization as lead selenide by anaerobic granular sludge", *J. Hazard. Mater.*, vol.420, pp.126663, 10/2021, (SCI)
  14. J. Mal, Selvasembian, R., Rani, R., Sinha, R., Agrahari, R., Joshua, I., Santhiagu, A. and Pradhan, N., "Recent progress in microbial fuel cells for industrial effluent treatment and energy generation: Fundamentals to scale-up application and challenges.", *Bioresource Technology*, vol.346, pp.126462, 12/2021, (SCI)
  15. Kavita Patel, Siwangi Srivastava, Shikha Kushwah and Ashutosh Mani, "Perspectives on the Role of APOE4 as a Therapeutic Target for Alzheimer's Disease", *Journal of Alzheimer's Disease Reports*, vol.5, 12/2021, Published By IOS Press. (Scopus)
  16. M. Singh, P. Tripathi, S. Singh, M. Sachan, V. Chander, G. K. Sharma, U. K. De, S. Kota, Putty K, R. K. Singh & S. Nara, "Identification and characterization of DNA aptamers specific to VP2 protein of canine parvovirus.", *Appl Microbiol Biotechnol.*, pp.8895-8906, 12/2021, Published by Springer. (SCI, IF = 3.53)
  17. Gwenzi, W., Selvasembian, R., Offiong, N.A.O., Mahmoud, A.E.D., Sanganyado, E. and Mal, J., "COVID-19 drugs in aquatic systems: a review.", *Environmental Chemistry Letters*, vol.20, pp.1275-129, 01/2022. (SCI)
  18. Rupika Sinha, Shubhankar Anand, Divakar Singh, Satyavrat Tripathi, Priya Shukla,

- Sukhendra Singh and Pradeep Srivastava, "Bioprocessing strategies for microbial production and purification of immune suppressants: an insight for process intensification", *Chemical Engineering and Processing - Process Intensification*, vol.172, pp.https://doi.org/10.1016/j.ces.2022.108222, Published by Elsevier. (SCI, IF=4.237)
19. Rangabhashiyam Selvasembian, Joyabrata Mal, Radha Rani, Rupika Sinha, Roma Agrahari, Ighalo Joshua, Arockiasamy Santhiagu and Nirakar Pradhan., "Recent progress in microbial fuel cells for industrial effluent treatment and energy generation: Fundamentals to scale-up application and challenges", *Bioresource Technology*, vol.346, pp.https://doi.org/10.1016/j.biortech.2022.128111, Published by Elsevier. (SCI, IF = 11.88)
  20. A Srivastava, B. P. Jit, R. Dash, R Srivastava, S Srivastava, "Thuja Occidentalis: an Unexplored Phytomedicine with Therapeutic Applications.", *Combinatorial Chemistry & High Throughput Screening*, pp.-, 02/2022, Published by Bentham Sciences. (SCI, IF=1.714)
  21. A. Pandey, S. Srivastava and S. Kumar, "Scenedesmus sp. ASK22 cultivation using simulated dairy wastewater for nutrient sequestration and biofuel production: insight into fuel properties and their blends", *Biomass Conversion and Biorefinery*, pp.-, 03/2022, Published by Springer. (SCI) IF=4.9
  22. Manish Pratap Singh, Sandhya Rai, Nand K. Singh & Sameer Srivastava. Transcriptomic landscape of early age onset of colorectal cancer identifies novel genes and pathways in Indian CRC patients. *Scientific Reports* volume 11, Article number: 11765 (06/2021). (SCI, IF= 4.379)
  23. Neha Shree Maurya, Sandeep Kushwaha, Aakash Chawade and Ashutosh Mani (2021) Transcriptome profiling by combined machine learning and statistical R analysis identifies TMEM236 as potential novel diagnostic biomarker for colorectal Cancer. *Scientific Reports* DOI:10.1038/s41598-021-92692-0 IF= 4.9.
  24. Bankuru Navyatha, Seema Nara, Gold nanotherapeutics: future emblem of cancer nano medicine, *Nano bio medicine*, 2021, 8: 184 95435211053945.
  25. Shadma Afzal, Deepa Sharma, Nand K. Singh (2021) Eco-friendly synthesis of phytochemical-capped iron oxide nanoparticles as nano-priming agent for boosting seed germination in rice (*Oryza sativa* L.) *Environmental Science and Pollution Research*. 8(30):40275-40287. doi: 10.1007/s11356-020-12056-5. (IF=4.379)
  26. Deepa Sharma, Shadma Afzal and Nand K. Singh (2021). Nanoprimering with phyto synthesized zinc oxide nanoparticles for promoting germination and starch metabolism in rice seeds. *Journal of Biotechnology*. https://doi.org/10.1016/j.jbiotec.2021.06.014. (IF.3.163)
  27. Eric D van Hullebusch, Nand K. Singh & Joyabrata Mal (2021). Biotechnological intervention for societal development (BioSangam 2020). *Environmental Science and Pollution Research*. DOI: 10.1007/s11356-021-14630-x. (IF=4.015)
  28. Shadma Afzal, Nand K. Singh Nivedita Singh Nidhi Chaudhary (2021). Structural analysis of extrafloral nectaries of *Senna occidentalis* L.insights on diversity and evolution. *Planta* (2021) 254:125 https://doi.org/10.1007/s00425-021-03781-3. (IF.4.12)
  29. Shadma Afzal, Tariq Aftab & Nand K. Singh (2022). Impact of Zinc Oxide and Iron Oxide Nanoparticles on Uptake, Translocation, and Physiological Effects in *Oryza sativa* L. *Journal of Plant Growth Regulation*. 41 (4): 1445-1461. (IF.4.169)
  30. Srivastava A, Radha Rani, Patle DS, S. Kumar, (2021) Emerging bioremediation technologies for the treatment of textile wastewater containing synthetic dyes: A comprehensive review, *J Chem Technol Biotechnol*. 97, 26-41 2022.
  31. Selvasembian, J. Mall, R. Sinha, R. Agrahari, Radha Rani, I. Joshua, Santhiagu A, Pradhane N, (2021), Recent progress in microbial fuel cells for industrial effluent treatment and energy generation: Fundamentals to scale-up application and challenges. *BioresourceTechnology*, doi: https://doi.org/10.1016/j.biortech.2021.126462.

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33. Gautam A, Kushwaha, Radha Rani (2022) Reduction of Hexavalent Chromium [Cr(VI)] by Heavy Metal Tolerant Bacterium *Alkalihalobacillus clausii* CRA1 and Its Toxicity Assessment Through Flow Cytometry. *Current Microbiology*. DOI: 10.1007/s00284-021-02734-z.
34. Srivastava A, Dangi L, Sushil K, Radha Rani (2022), Microbial decolorization of Reactive Black 5 dye by *Bacillus albus* DD1 isolated from textile water effluent: Kinetic, thermodynamics & decolorization mechanism. *Heliyon*, doi: <https://doi.org/10.1016/j.heliyon.2022.e08834>.
35. Singh, S., Sinha, R., & Kundu, S. (2022). Role of organosolv pretreatment on enzymatic hydrolysis of mustard biomass for increased saccharification. *Biomass Conversion and Biorefinery*, 12(5), 1657-1668.
36. Vishwakarma, A. K., Yadav, B. S., Singh, J., Sharma, Shivesh, & Kumar, N. (2022). Antibacterial activity of PANI coated CoFe<sub>2</sub>O<sub>4</sub> nanocomposite for gram-positive and gram-negative bacterial strains. *Materials Today Communications*. [I.F- 3.38]
37. Sharma, A., Vishwakarma, K., Singh, N. K., Prakash, V., Ramawat, N., Prasad, R., & Sharma, Shivesh (2021). Synergistic action of silicon nanoparticles and indole acetic acid in alleviation of chromium (CrVI) toxicity in *Oryza sativa* seedlings. *Journal of Biotechnology*. (IF:3.50)
38. Jain, S., Rai, P., Singh, J., Singh, V. P., Rana, S., & Sharma, Shivesh. (2021). Exogenous addition of silicon alleviates methylsulfuron induced stress in wheat seedlings. *Plant Physiology and Biochemistry*. (IF: 4.27)
39. S. Gaur, J. Kumar, S. M. Prasad, Sharma, Shivesh, Sahi, S., & Chauhan, D. K. (2021). Silicon and nitric oxide interplay alleviate copper induced toxicity in mung bean seedlings. *Plant Physiology and Biochemistry* 1. (IF: 4.27)
40. Vivek Kumar Yadav, Pradeep Kumar Singh, Deepmala Sharma, Himanshu Pandey, Sunil Kumar Singh, Vishnu Agarwal (2021). Autoinducer N-(3-oxododecanoyl)-L-homoserine lactone induces calcium and reactive oxygen species-mediated mitochondrial damage and apoptosis in blood platelets. *Microbial Pathogenesis* 154 (2021): 104792. (IF=3.84)
41. Devendra S, Vishnu A. A review on the COVID-19, its history, diagnostic approaches, role of herbs and current world scenario. *Biomedicine*. 2021;41(2):328-32. doi: 10.51248/v41i2.1032.
42. Singh D, Sharma D, Agarwal V. Screening of anti-microbial, anti-biofilm activity, and cytotoxicity analysis of a designed polyherbal formulation against shigellosis. *J Ayurveda Integr Med*. 2021;12(4):601-6. doi: 10.1016/j.jaim.2021.06.007.
43. Devendra Singh D, Agarwal V. Screening of antimicrobial, anti-quorum sensing activity and cytotoxicity of origanum oil against Gram-positive & Gram-negative bacteria. *Biomedicine*; 41(3):599-603. doi: 10.51248/v41i3.1200.
44. Dohare S, Singh D, Sharma D, Agarwal V. Effect of *Staphylococcus epidermidis* on *Pseudomonas aeruginosa* biofilm in mixed-species culture. *J Exp. Biol. Agric. Sci*. 2021; 9(3):325-34. doi: 10.18006/2021.9(3).325.334.
45. Dohare, S, Singh, D, Sharma, D, Agarwal V. The effect of *Staphylococcus epidermidis* cells on *Pseudomonas aeruginosa*-associated virulence factors. *J App Biol Biotech*. 2021;9(6):122-7. doi: 10.7324/JABB.2021.96015.
46. Singh D, Agarwal V. Herbal antibacterial remedy against upper respiratory infection causing bacteria and in vivo safety analysis. *Vegetos*. 2022;35(1):264-8. doi:10.1007/s42535-021-00281-3.
47. Singh D, Agarwal V. An in vivo acute toxicity and anti-shigellosis effect of designed formulation on rat. *J Ayurveda Integr Med*. 2022 Jan 5:100536. doi: 10.1016/j.jaim.2021.100536.
48. Singh D, Singh V, Bhushan Mishra S, Sharma D, Agarwal V. Evaluation of anti-biofilm, anti-quorum, anti-dysenteric potential of designed polyherbal formulation: in vitro and in vivo study.



- J Appl Biomed. 2022 Mar; 20(1):7-14. doi:10.32725/jab.2022.005. (I.F 1.79)
49. Kushwaha, A., Verma, R. S., & Agarwal, V. (2022). *Pseudomonas aeruginosa* quorum-sensing molecule N-(3-oxododecanoyl) homoserine lactone induces calcium signaling-dependent crosstalk between autophagy and apoptosis in human macrophages. *Cellular Signalling*, 110441.
  50. Singh D, Agarwal V. In vitro evaluation of the antimicrobial activity of thyme and cinnamon essential oils against respiratory infection causing bacteria and its cytotoxicity analysis. *Res J Biotechnol.* 2022;17(6):183-8.
  51. Sheetal Saini, Sarath Kumar Kottarath, Amit Kumar Dinda, Anuradha Dube, Amogh Anant Sahastrabuddhe, Chandreshwar Prasad Thakur, Madhusudan Bhat, Ambak Kumar Rai, Preventive as well as therapeutic significances of linoleic acid in the containment of *Leishmania donovani* infection, *Biochimie*, 2020, 175: 13-22. Impact factor: 4.372
  52. Sheetal Saini, Ambak K Rai, Hamster, a close model for visceral leishmaniasis: Opportunities and Challenges, *Parasite Immunology*, 2020, 42 (10), e12768. Impact factor: 2.280.
  53. Sheetal Saini, Bharat Singh, Satya Prakash, Smita Kumari, Amit Kumar Kureel, Anuradha Dube, Amogh Anant Sahasrabuddhe, Ambak Kumar Rai. Parasitic load determination by differential expressions of 5-lipoxygenase and PGE2 synthases in visceral leishmaniasis. *Prostaglandins Other Lipid Mediat.* 2020 147, 106390. Impact factor: 3.072.
  54. Sheetal Saini, Sheetal Saini and Ambak Kumar Rai. Linoleic acid inhibits the release of *Leishmania donovani* derived micro vesicles and decreases its survival in macrophages. *Frontiers in Cellular and Infection Microbiology* 2020, 10: 406. Impact factor: 6.073
  55. Abhishek Nigam, Sheetal Saini, Ambak Kumar Rai, S. J. Pawar. Structural, optical, cytotoxicity, and antimicrobial properties of MgO, ZnO and MgO/ZnO nanocomposite for biomedical applications. *Ceramics International.* 2021, 47 (14), 19515-19525. Impact factor: 5.532
  56. Amit Kumar Kureel, Sheetal Saini, Bharat Singh, Kulwant Singh & Ambak Kumar Rai. Compromised levels of CD6 and reduced T cell activation in the aged immune system. *Biomarkers*, 26(5), 483-490. Impact factor: 2.658
  57. Sheetal Saini and Ambak Kumar Rai. Linoleic Acid-A Feasible Preventive Approach for Visceral Leishmaniasis. *Front. Nutr.* 2021. Impact factor: 6.576
  58. Abhishek Nigam, Sheetal Saini, Ambak Kumar Rai, S. J. Pawar, Structural, morphological, antimicrobial, and cytotoxicity study of spindle-shaped ZnO submicron particles for potential biomedical applications. *Materials Today Communications*, 2021, 28, 102683, Impact factor: 3.383.

#### Publication in International Conferences

1. A Srivastava, S Srivastava, "Bioinformatics analysis of RSPO2 reveals prominent gene candidates in colorectal cancer", International e-Conference on 'Recent Trends in Health and Diseases', Institute of Advanced Molecular Genetics & Infectious Diseases (IAMGID), University of Lucknow, Lucknow, India, pp.-, 01/2022, Published by Atlantis Press.
2. Rikhari D., Srivastava A., Srivastava S, "An integrated bioinformatics approach to screen potent fusion transcripts in colorectal cancer", BioSangam, International Conference, 'Emerging Trends in Biotechnology', MNNIT Allahabad, pp.-, 03/2022, Published by Atlantis Press.
3. Srivastava A, Rikhari D, Srivastava S, "Application of bioinformatics tools to validate key genes as predictive biomarker in colorectal cancer", BioSangam, International Conference, 'Emerging Trends in Biotechnology', MNNIT, Allahabad, pp.-, 03/2022, Published by Atlantis Press.
4. Anmol Srivastava, Vivek Kumar and Vishnu Agarwal, "Screening of different essential oils against *Pseudomonas aeruginosa*", Bio Sangam, International Conference, 'Emerging Trends in Biotechnology', MNNIT Allahabad, pp.- 03/2022, Published by -. Atlantis Press.
5. Ankit Kushwaha and Vishnu Agarwal, "Pseudomonas aeruginosa quorum-sensing

molecule N-(3-oxododecanoyl) homoserine lactone induces autophagy dependent apoptosis in human macrophages” ‘Emerging Trends in Biotechnology’, MNNIT Allahabad, pp.-, 03/2022, Published by Atlantis Press.

Allahabad, pp.-, 03/2022, Published by-Atlantis Press.

#### Patents

6. Vivek Kumar, Vishnu Agarwal, “Repurposing the antibacterial drug Sulfamerazine for its anti-quorum activity against *P. aeruginosa*” ‘Emerging Trends in Biotechnology’, MNNIT

1. Patent no.370213, Entitled Method of simultaneous detection of e. coli and salmonella species by gold nanoparticle based latera, Granted on 24/06/2021. The details are follows.

#### Reviewer in International Journals and Conferences

Sl. No.	Faculty Name	Journal Name
1.	Dr. Ambak Kumar Rai	Agri gene Plos One Immunology and Infectious Diseases Future Science OA PLOS Neglected Tropical Diseases Associate Editor in Genetic Engineering & Biotechnology (Re: GEN Open) Enzyme and Microbial Technology Infection and drug resistance International Journal of Molecular Medicine Re:Gen Open Frontiers in Cellular and Infection Microbiology Oncology Letters International J of Oncology Parasite and Vectors
2.	Dr. Anjana Pandey	Cellular and Molecular Biology Biotechnology and Bioengineering International Journal of Hydrogen Energy Renewable Energy Biomass and Bioenergy Beilstein Journal of Nanotechnology Current Microbiology Fuel World Journal of Microbiology and Biotechnology Bioresource Technology 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  
Gene  
Frontiers in Genetics  
Current Organic Synthesis  
National Academy Science Letters  
Biochimie
4. Dr. Joyabrata Mal  
Environmental Science and Technology  
Springer Nature Applied Sciences  
Chemistry and Ecology  
Water Research  
Ecotoxicology and Environmental Safety  
Science of the Total Environment  
Journal of Environmental Management  
Environmental Science and Pollution Research  
International Biodeterioration & Biodegradation  
RSC Advance  
Environmental Quality Management
5. Dr. Manisha Sachan  
Journal of Hazardous Materials  
Cellular and Molecular Biology  
Clinical Epigenetic  
DNA and Cell Biology  
Biochemistry and molecular biology  
BMC Cancer  
Journal of Ovarian Research  
Epigenetics Insights  
Scientific Report  
Clinica Chemica Acta  
Cancer Control  
Frontiers in Genetics
6. Dr. Nand Kumar Singh  
African Journal of Agricultural Research  
Journal of Applied Biology & Biotechnology  
Biotechnology Advances.  
International Journal of Phytology Research  
Advances in Agriculture  
Jundisha Pur Journal of microbiology  
International Journal Euphytica  
Chemosphere
7. Dr. Radha Rani  
Mewaram  
International Journal of Phytoremediation  
Journal of institution if engineers India series E  
Ecology and Chemistry  
Science of the Total Environment  
Environmental Toxicology and Innovation  
Chemosphere  
Ciencia Rural  
Plos One
8. Dr. Sameer Srivastava  
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  
Current Cancer Durg Targets  
Tree Physiology  
Cancer Management Research  
Biomolecules  
Current Bioinformatics  
Environmental Science and Pollution Research  
Therapeutics and Clinical Risk Management  
Oncogene  
Gastroenterology  
BioSangam, International Conference, 'Emerging Trends in Biotechnology  
9. Dr. Sangeeta Negi Food Research International  
African Journal of Biotechnology  
Food Technology and Biotechnology  
Brazilian Archives of Biology and Technology  
Bioresource Technology  
Applied Biochemistry and Biotechnology  
10. Dr. Seema Nara International Journal of Food Microbiology  
Analytica Chimica Acta  
Analytical Methods  
Biosensors and Bioelectronics  
International Journal of Nanomedicine  
Nanomedicine  
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  
ACS Sensors  
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  
Environmental Sustainability  
Water, Air, & Soil Pollution  
Applied Microbiology and Biotechnology  
Plant Physiology and Biochemistry

- Environmental Science and Pollution Research (ESPR)  
 Journal of Plant Growth and Regulation  
 Trends in Food Science & Technology (TIFS)  
 Acta physiologiae plantarum  
 Crop and pasture science  
 Microbial Pathogenesis
12. Dr. Vishnu Agarwal

**Book(s)/Book(s) Chapter(s) Authored**

Sl. No.	Faculty Name	Book	Book Chapter	Publisher
1.	Deepak Yadav, Sukhendra Singh and Rupika Sinha	Pollutants & Water Management: Resources, Strategies and Scarcity	Microbial Degradation of Organic Contaminants in Water Bodies	Wiley
2.	Joyabrata Mal, S Rangabhashiyam	Sustainable Water & Waste Treatment	Bioremediation & phytoremediation as the environmentally sustainable approach for the elimination of toxic heavy metals	CRC press
3.	Vandita Anand & Anjana Pandey	Waste water Treatment Reactors	Molecular biological techniques used in environmental engineering: current prospects and challenges	Elsevier
4.	Ashutosh Mani & Akhil Varshney	Recent Advances in Computer Aided Drug Designing,		Nova Science Publishers, USA
5.	Neha Shree Maurya, Amit Chaudhary, Prashant Mani and Ashutosh Mani.		Prospects in Drug Discovery and Health Technology. Recent Advances in Computer Aided Drug Designing,	Nova Science Publishers, USA
6.	Ankit Kushwaha and Vishnu Agarwal	Obesity and Cancer	Autophagy at the Crossroad of Obesity-Mediated Cancer Progression	Springer
7.	Aditya Kumar Gond, Mohit Kumar, Ankur Kumar Kuntal, Ashutosh Mani and Manish Dwivedi.		Recent Advances in Computer Aided Drug Designing,	Nova Science Publishers, USA
8.	Amit Chaudhary, Akhil Varshney, Ashutosh Mani and Shailendra Kumar Srivastava	Recent Advances in Computer Aided Drug Designing,		Nova Science Publishers, USA
9.	Pankaj Kumar Chaurasia, Shashi Lata Bharati, Sunita Singh, Mithu Yadav and Ashutosh Mani		Some essential oils with nutritional, pharmaceutical and other properties	Nova Science Publishers, USA
10.	Pankaj Kumar Chaurasia, Shashi Lata Bharati, Sunita Singh, Mithu Yadav and Ashutosh Mani		Health benefits and nutraceutical values of Cumin and its essential oil	Nova Science Publishers, USA

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11. A. Pandey, G. Kant, S. Afzal, M. Pratap Singh, N. K. Singh, S. Kumar, Sameer Srivastava Handbook of Algal Biofuels Genetic manipulation of microalgae for enhanced biotechnological applications Elsevier
  12. Rupika Sinha, Shipra Dwivedi, Sukhendra Singh, Diwakar Singh and Pradeep Srivastava Innovative Bio-Based Technologies for Environmental Remediation Low-Cost Bioremediation Technologies for Transforming Waste to Wealth CRC Press, Taylor and Francis
  13. P. K. Chaurasia, Shashi Lata Bharati, Sunil Kumar and Ashutosh Mani The Chemistry Inside Spices and Herbs Clinical aspects of Ashwagandha Bentham
  14. A. Srivastava, S. Rai, Deepa Bisht, M. Sachan, B. Prasad Jit, S. Srivastava Protein Kinase Inhibitors Targeting the altered tyrosine kinases in colorectal cancer: From inhibitors to drugs Academic press
  15. A. Srivastava, S. Rai, M. P. Singh, S. Srivastava Computational Intelligence in Oncology Computational Intelligence-Based Gene Expression Analysis in Colorectal Cancer: A Review Springer
  16. S. Singh, Pradeep Srivastava, S. Deep, Ashish, P. Shukla, H. Rizvi & Rupika Sinha Industrial Microbiology and Biotechnology Fermentation Strategies for Organic Acid Production Springer, Nature
  17. Smriti Singh, Bankuru Navyatha, Seema Nara, Horizons in Cancer Research, Vol 82, 2021. Nanotechnology based diagnostic methods of ovarian cancer detection using noninvasive biomarkers
  18. Smriti Singh & Seema Nara, Gold Nanozymes Advances & Applications Nanozymes in Therapeutics CRC Press.
  19. Pooja Singh, Smriti Singh, Seema Nara Nanomaterials & Nanotechnology Biomedical, Environmental & Industrial Applications Nanotechnology as a Tool for Contaminants Detection in Milk or Milk Products Springer Singapore
  20. Vandita Anand & Anjana Pandey Microbial Degradation of Xenobiotics through Bacterial and Fungal Approach Chapter 10: Role of Microbes in Biodegradation of Cyanide and Its Metal Complexes Elsevier
  21. Vandita Anand & Anjana Pandey Removal of Refractory Pollutants from Waste water Treatment Plants Chapter 11: Bioremediation of Cr (VI) contaminated soil using Bacteria. CRC press
  22. Shadma Afzal, Nidhi Chaudhary & Nand K. Singh Plant Growth Regulators Role of Soluble Sugars in Metabolism & Sensing Under Abiotic Stress. Springer
  23. Shadma Afzal, Manish P Singh, Nidhi Chaudhary, Nand K Singh Plant Perspectives to Global Climate Changes Application of nanoparticles in developing resilience against abiotic stress in rice plant (*Oryza sativa* L.). Elsevier
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### Invited Lectures Delivered

- Lecture delivered by Dr. Anjana Pandey at International Online Conference on Nano Materials (ICN 2021), Kottayam, Kerala, India, Prof. Sabu Thomas, Mahatma Gandhi University on 10/04/2021 entitled Electro-chemical Sensing of Heavy Metals Using Gold Nanoparticles Modified Indium Tin Oxide Electrodes.
- Lecture delivered by Dr. Seema Nara at International Online Conference on Nano Materials (ICN 2021), Mahatma Gandhi University, Kottayam, Kerala, India on 11/04/2021 entitled Nanozymes as promising alternative to natural enzymes for biosensing applications.
- Lecture delivered by Dr. Anjana Pandey at International Summit and Conference on Material Science Nanotechnology & Bio Manufacturing (ISCMNB) 2021, Prof. Kaushik Pal (Malyasia) on 25/05/2021 entitled Silver nanoparticles-based detection of Salmonella typhi: A theranostic Approach.
- Lecture delivered by Dr. Manisha Sachan at Faculty Development Programme, HBTI Kanpur on 22/09/2021 entitled Vaccine Designing & Production: Advancement and Challenges.
- Lecture delivered by Dr. Anjana Pandey at webinar on "Recent Trends & Advances in Bioremediation Technologies" (RTABT-2021) – Central University of Gujarat on 16/08/2021 entitled Bioremediation technologies to remove heavy metals: An overview.

### Events Organized by Department

Sl. No.	Name	Title	From	To
1.	Workshop	Advancements in In vitro Diagnostic Methods in Healthcare, MNNIT Allahabad	19.07.2021	25.07.2021
2.	International conference	BioSangam2022, International Conference, 'Emerging Trends in Biotechnology', MNNIT Allahabad	10.03.2022	12.03.2022
3.	Workshop	AICTE-Training and Learning (ATAL) Academy Sponsored Five Day Faculty Development Programme (FDP) on Green Technology and Sustainability Engineering "Biowaste to Bioenergy: A Future Sustainable Energy Source" 14 <sup>th</sup> – 18 <sup>th</sup> December 2021 [Virtual mode]	14.12.2021	18.12.2021

### Research Projects Completed/Ongoing

Sl. No.	Principal Investigator /Co investigator(s)	Project Title	Funding Agency	Amount (INR)	Duration
1.	Dr. Vishnu Agarwal (PI)	Designing and Development of a novel quorum quenching and lytic bacterio phage cocktail based therapeutic strategy by using QS regulated CRISPR-cas system to prevent Pseudomonas aeruginosa and its biofilm associated infections	ICMR	Rs.50.00 Lakhs	Ongoing
2.	Dr. Sameer Srivastava (Co-PI)	Understanding the human endogenous retrovirus mediated regulation of CD5 isoform expression and its functional characterization'	DST-SERB	Rs.50.98 Lakhs	Ongoing
3.	Dr. Sangeeta Negi (PI)	Process development for bioconversion of grease into long chain fatty acids.(In collaboration with IIT, Delhi)	DBT, GOI	Rs.57.60 Lakhs	Ongoing
4.	Dr. Rupika Sinha	Development of a co-culture strategy	SERB, DST	Rs.30.94	Ongoing

(PI)	for enhanced production of streptomycin using a hollow fiber membrane bioreactor		Lakhs	
5. Dr. Shivesh Sharma (PI)	Design and Innovation Centre (Spoke)	MoE	Rs.1.02 Lakhs	Ongoing
6. Dr. Manisha Sachan (PI)	Generation of comprehensive methylome towards developing a qPCR based epigenetic biomarker panel for early detection of buccogingival and tongue carcinoma	Indian Council of Medical Research, Government of India	Rs.38.00 Lakhs	Ongoing
7. Dr. Ambak Kumar Rai (PI)	Understanding the human endogenous retrovirus mediated regulation of CD5 isoform expression and its functional characterization'	DST-SERB [CRG Scheme]	Rs.50.98 Lakhs	Ongoing
8. Dr. Vishnu Agarwal (Co-PI)	Engineering adhesive CeO <sub>2</sub> -Pd nanozyme as effective antibiotic towards bacteria killing	SERB-CRG CRG/2021 /002954	Rs.45.00 Lakhs	Ongoing
9. Dr. Shivesh Sharma (PI)	GIS based mapping of microbial diversity across Ganges for ecosystem services	NMCG (National mission for clean Ganga)	Rs. 57.75 Lakhs	Ongoing
10. Dr. Shivesh Sharma (PI)	Studies on nanoparticles (FeO <sub>2</sub> & 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)	Rs. 40.64 Lakhs	Completed
11. Dr. Radha Rani Mewaram (Co-PI)	Development of aerobic granular sludge based biological treatment system for treating pharmaceutical waste-water	BRNS	Rs.25.00 Lakhs	Ongoing
12. 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	Rs.35.00 Lakhs	Ongoing
13. Dr. Ashutosh Mani (PI)	Screening and identification of natural inhibitors for $\beta$ -Secretase-1 as potential therapeutics against Alzheimer's disease	SERB New Delhi	Rs. 45.00 Lakhs	Ongoing
14. Dr. Sangeeta Negi (Co-PI)	Effect of dual modifications on 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, GOI	Rs. 35.00 Lakhs	Ongoing
15. Dr. Ambak Kumar Rai (Co-PI)	Study to establish infection of <i>L. donovani</i> through intradermal route in hamsters and its pathological validation	Department of Biotechnology, New Delhi	Rs.25.26 Lakhs	Ongoing
16. Dr. Sameer Srivastava (Co-PI)	"Mentoring and Monitoring of Government School teachers of Uttar	Samgra Siksha-Govt of UP	Rs.11.00 Lakhs	Ongoing

		Pradesh: UP Government Schools Teachers training program			
17.	Dr. Vishnu Agarwal (Co-PI)	Differential mRNA expression analysis and YBX2 polymorphism study in Indian population to identify novel markers for male infertility	ICMR-EMR	Rs.45.00 Lakhs	Ongoing
18.	Dr. Vishnu Agarwal (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)	Rs.41.4 Lakhs	Ongoing
19.	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 (ICMR), New Delhi	Rs.35.00 Lakhs	Ongoing
20.	Dr. Ashutosh Mani (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	SERB, New Delhi	Rs.45.00 Lakhs	Ongoing
21.	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	Rs.36.00 Lakhs	Ongoing
22.	Dr. Joyabrata Mal (PI)	Development of aerobic granular sludge based biological treatment system for treating pharmaceutical wastewater	DAE-BRNS	Rs.28.08 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	SERB	Rs.39.00 Lakhs	Completed on 04/2021
24.	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	Rs.36.00 Lakhs	Completed on 11/2021
25.	Dr. Radha Rani Mewaram (Co-PI)	Bioremediation for removal of reactive dyes from industrial waste water	CST-UP	Rs.10.44 Lakhs	Completed on 12/2021
26.	Dr. Nand Kumar	Phenotypic characterization and gene mapping of novel early rice flowering mutants during the floral transition and	SERB	Rs. 66.00 Lakhs	Ongoing

27.	Dr. Nand Kumar	seed formation Aphid Infestation control using Parthenium hysterophorus. Society for Research & Initiatives for Sustainable Technologies	BIRAC	Rs. 1.00 Lakhs	Ongoing
28.	Dr. Seema Nara (PI)	Engineering adhesive nanozyme as effective towards bacteria killing	CeO <sub>2</sub> -Pd antibiotic SERB-CRG CRG/2021/ 002954	Rs.45.00 Lakhs	Ongoing

### Other Relevant Information

1. Dr. Anjana Pandey received Best Invited Lecture Award in International Summit and Conference on Material Science Nanotechnology & Bio Manufacturing (ISCMNB) 2021 on 05/2021.

### 9.3 DEPARTMENT OF CIVIL ENGINEERING

#### Vision

To provide quality teaching with a strong concept of engineering & 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 & research.

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

### Mission

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.

#### 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.	Preeti Agarwal	2016RCE03	RC Box Girder Bridges- A parametric study	Prof. P. K. Mehta Dr. P. R. Pal
2.	Deep Tripathi	2016RCE11	Sulphate Effect on Binary Admixtures Mixed Self Compacting Concrete	Prof. P. K. Mehta Prof. Rakesh Kumar
3.	Preeti Agrawal	2016RCE03	RC Box Girder Bridges - A Parametric Study	Prof. P. K. Mehta & Dr. Priyaranjan Pal
4.	Ms. Manjari Singh	2016RCE02	Seismic Microzonation study of Varanasi city	Dr. V. P. Singh
5.	Pooja	2016RCE07	Studies on improvement of concrete utilizing mixture of bagasse ash and stone dust	Prof. A. K. Sachan
6.	Prashant Kumar	2013RCE53	Structural damage healing using smart sensing technology	Prof. A. K. Sachan
7.	Ashutosh Kumar Tripathi	2015RGI51	Development of Web GIS based Framework for Spatial Data Infrastructure in Cloud Computing Environment	Dr. R. D. Gupta Dr. Sonam Agrawal



8.	Naresh Bhukya	2016RCE10	Earthquake ground motion prediction model for lesser Himalaya Region & PSHA of Uttar Pradesh	Prof. L. K.Mishra & Dr. Kumar Venkatesh
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**Total No. of M.Tech. Thesis Completed in Civil Engineering : 14**

**Publication in International Journals**

- Prasanth, S. and Ghosh, G. (2021). "Evaluation of seismic resilience of a building with and without URM infill walls", *The Indian Concrete Journal*, 95 (8), 1-6.
- Prasanth S. and Ghosh, Goutam (2021) "Effect of cracked section properties on the resilience based seismic performance evaluation of a building", *Structures*, 34, 1021-1033.
- Hemkar, K, Mishra. L. K and Ghosh. G (2021), "Performance evaluation of a RC frame structure from element level to structure level", *Materials Today: Proceedings Journal* [published online].
- Sinha, Binod Kumar and Ghosh, Goutam (2021), "Material R-factors of Buildings with Irregularity", *Materials Today: Proceedings Journal* [published online].
- Singh, Kuldeep and Ghosh, Goutam (2021), "Stress Behaviour of Concrete Pavement", *Materials Today: Proceedings Journal* [published online].
- Awasthi, J., Mehta, Ghosh, Goutam and Mehta, Pradeep Kumar (2021). "Seismic Design of a Curved Bridge as per Performance-based Criteria", *Materials Today: Proceedings Journal*, 38, 3014-3018.
- Gupta, Praveen Kumar and Ghosh, Goutam (2021). "Effect of Bi-directional Excitation on a Curved Bridge with Lead Rubber Bearing", *Materials Today: Proceedings Journal*, 44 (1), 2239-2244.
- Prasanth S. and Ghosh, Goutam (2021) "Effect of Variation in Design Acceleration Spectrum on the Seismic Resilience of a Building", *Asian Journal of Civil Engineering*, 22, 331-339.
- Sinha, Binod Kumar and Ghosh, Goutam (2021), "Efficacy of R-factors in the Performance Based Evaluation of RCC Buildings", *Materials Today: Proceedings Journal*, 38 (5), 3372-3377.
- Pandey, S., Sachan, A. K., Rawat, A., & Singh, S. (2021). Optimum Pavement Thickness for Rigid Pavement in UP Eastern Region. *International Journal of Engineering and Advanced Technology*, 10(5), 173–181. <https://doi.org/10.35940/ijeat.e2738.0610521>.
- Krishna Kumar Maurya, Anupam Rawat and Rama Shanker (2021) "Review on Condition Assessment of Structures using Electro-Mechanical Impedance Technique." SDHM, Structural Durability and Health Monitoring, Tech Science Press USA, ISSN:1930-2991, pages 1-30. (Scopus)
- Preeti Agarwal, Priyaranjan Pal, Pradeep Kumar Mehta, "Computation of design forces and deflection in skew-curved box-girder bridges" *Structural Engineering and Mechanics*, Vol.78, No. 3, pp. 255-267, May, 2021. (SCI Indexed) (DOI:<https://doi.org/10.12989/sem.2021.78.3.255>) (ISSN:1225-4568 (Print) 1598-6217 (Online))
- Nishi Gupta, Pradeep Kumar Mehta and Rakesh Kumar "Effect of Depth on Box Girder Bridges" *International Research Journal of Engineering and Technology (IRJET)*, Volume 8, Issue 6, pp. 4635-4641, June, 2021. <https://www.irjet.net/volume8-issue6> S. No: 840 (e-ISSN: 2395-0056; p-ISSN:2395-0072)
- Deep Tripathi, Rakesh Kumar, P. K. Mehta, Amrendra Singh (2021) "Evaluation of A Sustainable Self Compacting Concrete Using Destructive and Non-Destructive Testing" *Materials Today: Proceedings*, Oct 13, 2021. (DOI:10.1016/j.matpr.2021.09.389) (Elsevier-Scopus)
- Deep Tripathi, Rakesh Kumar, P. K. Mehta (2021) "Characterization of Ternary Blended Self Compacting Concrete Exposed to Sulphate Environment" *Concrete Beton-Official publication of Cement and Concrete*, South Africa, 167, Nov 2021, pp. 24-29. (ISSN: 1682-6116)
- Preeti Agarwal, Priyaranjan Pal, Pradeep Kumar Mehta, "Box-Girder Bridges- Modelling and Analysis" *International Journal for Engineering*

- Modelling, Vol.35, No. 1, pp.19-44, Feb, 2022. (Scopus Indexed) (DOI: <https://doi.org/10.31534/engmod.2022.1.ri.02m>)
17. Preeti Agarwal, Priyaranjan Pal, and Pradeep Kumar Mehta, "Free Vibration Analysis of RC Box Girder Bridges using FEM", *Sound & Vibration*, Vol.56, No. 2, pp.105-125, March, 2022. (Scopus Indexed)
  18. Preeti Agarwal, Priyaranjan Pal, and Pradeep Kumar Mehta, "Free Vibration Analysis of RC Box Girder Bridges using FEM", *Sound & Vibration*, Vol.56, No. 2, pp.105-125, March, 2022. (Scopus Indexed)
  19. Singh, R. M. (2021). Discussion of "Resolving Conflicts between Irrigation Agriculture and Ecohydrology Using Many-Objective Robust Decision Making" by Yu Li and Wolfgang Kinzelbach, *Journal of Water Resources Planning and Management*, ASCE (American Society of Civil Engineers), 147(7), May 2021 (online published first). [May 14, 2021]
  20. Singh, R. M. (2021) Discussion of "Multi objective Optimization of Sensor Placement for Precipitation Station Monitoring Network Design" by Ke Wang, Jia Yang, Yuling Peng, Qianqian Wu, and Chuli Hu; ASCE (American Society of Civil Engineers), *Journal of Hydrologic Engineering* 26(7):07021005-1 (online published first) [May 12, 2021]
  21. Prasad, A., Singh, R. M. & Duggal, S. K. (2021). Optimal Design of Barrage Profile on Anisotropic Soil using Multiobjective Optimization Approach. *Water Resour Manage* (Springer), 35, 2433-2448 [<https://doi.org/10.1007/s11269-021-02839-x>] [May 12, 2021].
  22. K Dutta, D Basu, S Agrawal. (2021). Synergetic interaction between spatial land cover dynamics and expanding urban heat islands. *Environmental Monitoring and Assessment*, 193, 184, <https://doi.org/10.1007/s10661-021-08969-4> [SCIE; IF (2020) 2. 871].
  23. K Dutta, D Basu, S Agrawal. (2021). Evaluation of seasonal variability in magnitude of urban heat islands using local climate zone classification and surface albedo. *International Journal of Environmental Science and Technology*, <https://doi.org/10.1007/s13762-021-03602-w> [SCIE; IF (2020) 3.083].
  24. Ravi Joshi and Priyaranjan Pal, Ply-by-Ply failure analysis of laminates under dynamic loading, *Sound & Vibration*, 55 (2), pp. 173-190, April 2021, doi:10.32604/sv.2021.011387
  25. Preeti Agarwal, Priyaranjan Pal and P. K. Mehta, Computation of design forces and deflection in RC skew-curved box-girder bridges, *Structural Engineering and Mechanics*, An International Journal, 78 (3), pp. 255-267, May 2021, doi:10.12989/sem.2021.78.3.255
  26. Deepak Kumar Singh and Priyaranjan Pal, Forced Vibration Analysis of Stiffened Lock Gate Structure, *Journal of Sound and Vibration*, 510, pp. 1-21, October 2021, doi: 10.1016/j.jsv. 2021. 116278
  27. Preeti Agarwal, Priyaranjan Pal and P. K. Mehta, Free Vibration Analysis of RC Box-Girder Bridges using FEM, *Sound & Vibration*, 56 (2), pp. 105-125, January 2022, doi:10.32604/sv.2022.014874
  28. Preeti Agarwal, Priyaranjan Pal and P. K. Mehta, Box-Girder Bridges - Modeling and Analysis, *International Journal of Engineering Modeling*, 35 (1), pp. 19-42, February 2022, doi:10.31534/engmod.2022.1.ri.02m
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  30. R. Kishor, V. P. Singh, Evaluation of Expansive Soil Amended with Fly Ash and Liquid Alkaline Activator. *Transp. Infrastruct. Geotech.* (2022). <https://doi.org/10.1007/s40515-022-00240-8>.
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- Prayagraj city (India), *Arabian Journal of Geoscience*, (2021) 14:1347, DOI: 10.1007/s12517-021-07573-7, July 2021.
33. Omar Sarif and Rajan Dev Gupta, 2021, Spatiotemporal mapping of land use/land cover dynamics using remote sensing and GIS approach: A case study of Prayagraj city, India (1988–2018), *Environment, Development and Sustainability*, DOI: 10.1007/s10668-021-01475-0, May 2021.
  34. A. K. Tripathi, S. Agrawal and R. D. Gupta, 2021, Comparison of GIS-based AHP and fuzzy AHP methods for hospital site selection: a case study for Prayagraj city, India, *GeoJournal*, DOI: <https://doi.org/10.1007/s10708-021-10445-y>, May 2021.
  35. Omar Sarif and Rajan Dev Gupta, 2021, Comparative evaluation between Shannon's entropy and spatial metrics in exploring the spatiotemporal dynamics of urban morphology: A case study of Prayagraj city, India (1988-2018), *Spatial Information Research*, DOI: 10.1007/s41324-021-00406-5, May 2021.
  36. Nishi Gupta, Pradeep Kumar Mehta, Rakesh Kumar, (2021) "Effect of Depth on Box Girder Bridges" *International Research Journal of Engineering and Technology (IRJET)*, Vol- 08, Issue-6, June 2021, pp. 4635-4641 e-ISSN:2395-0056, p-ISSN:2395-0072.
  37. Deep Tripathi, Rakesh Kumar, P. K. Mehta, Amrendra Singh (2021) "Evaluation of A Sustainable Self Compacting Concrete Using Destructive and Non-Destructive Testing" *Materials Today: Proceedings (Elsevier)*. October 13, 2021 (DOI:10.1016/j.matpr.2021.09.389 (Elsevier Scopus).
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  40. Anjali Singh, P. K. Mehta, Rakesh Kumar, (2022) "Performance of Binary Admixtures (Fly Ash and Silica Fume) on Self Compacting Concrete" *Materials Today: Proceedings (Elsevier)*, vol. 58, part-3, pp-970-97). (Scopus)
  41. Chandan Kumar Gupta, A. K. Sachan, Rakesh kumar, (2022) "utilization of sugarcane bagasse ash in mortar and concrete: A review" " *Materials Today: Proceedings (Elsevier)*, vol. 65, part-3 ,pp-798-807).(Scopus)
  42. Chandan Kumar Gupta, A. K. Sachan, Rakesh Kumar, (2022) "Utilization of construction and demolition waste in self compacting concrete" *Indian journal of environmental protection*, January (accepted). (Scopus).
  43. Pradeep Kumar & Shalinee Shukla, "Flexible pavement construction using different waste materials: A Review" *Materials Today: Proceeding*, Volume 65, Part 2, 2022, Pages 1697-1702 <https://doi.org/10.1016/j.matpr.2022.04.713>
  44. Priyanka Mishra & Shalinee Shukla, "Stabilization of Subgrade with Expansive Soil Using Agricultural and Industrial By-product: A Review" *Materials Today: Proceeding*, Volume 65, Part 2, 2022, Pages 1418-1424 <https://doi.org/10.1016/j.matpr.2022.04.397>
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  46. Nekram Rawal, An Approach for Ranking of Hospitals Based on Waste Management Practices by Analytical Hierarchy Process (AHP) *Methodology, Proceedings of the National Academy of Sciences, India Section A: Physical Sciences*, 2021, pp.1-6. Electronic ISSN.
  47. Hemant Kumar Pandey, Suraj Kumar, Nepal Chandra Mondal, Nekram Rawal, Chemical characterization of the Bicchari ash pond and its impact around the Renuagar Thermal Power Plant, Sonbhadra district, Uttar Pradesh, India, *Environmental Quality Management, Environ Qual Manage*, pp.1-10, Online ISSN:1520-6483, 2021;1–10.

48. Ria Ranjan Srivastava and Nekram Rawal, Approach for the assessment and ranking of hospitals based on waste management practices using RIAM, sustainability, and EPI techniques, *Journal of Hazardous, Toxic, and Radioactive Waste (ASCE)*, Vol.25, ISSN (print) : 2153-5493, ISSN (online) : 2153-551504020076.
49. B. Naresh, K. Venkatesh and L. K. Mishra, (2021) "Estimation of High frequency Decay Parameter to Simulate Earthquake Ground Motion for Indo-Gangetic Plain". *J. Inst. Eng. India Ser. A*, Vol. 103 (1), 39-46. <https://doi.org/10.1007/s40030-021-00601-5> (SCOPUS) (Q 4).
6. R. Verma, D. Basu and R. M. Singh (2021). Water Quality Time Series Modeling using Statistical and Ensemble Models. *International Conference on Advances in Chemical, Biological and Environmental Engineering (ICACBEE-2021)*, MNIT, Jaipur, April 23-24, 2021 (ICACBEE-2021-OP-060)
7. Imran Ahmad, D. Basu. (2021). Using Central Composite Experimental Design to Optimize the Degradation of Reactive Orange 16 Dye from Aqueous Solution by Electro-Fenton Reaction. *International Conference on Advances in Chemical, Biological and Environmental Engineering (ICACBEE-2021)*, April 23-24, 2021, MNIT Jaipur, India, pp. 89, ISBN: 978-93-81891-68-1.

#### Publication in National Journals:

1. P. Dhanai, V. P. Singh, & P. Soni, Rainfall triggered slope instability analysis with changing climate, *Indian Geotechnical Journal* (2022). <https://doi.org/10.1007/s40098-021-00581-0>.

#### Publication in International Conferences

1. S. Prasanth and Goutam Ghosh (2021) "Sustainability and Resilience Consideration of a RC Building", *First International Conference on Technologies for Smart Green Connected Society 2021*, November 28-29, 2021, Yamagata University, Yonezawa, Japan.
2. Aman Kumar and Goutam Ghosh (2021) "Ductility Consideration for a Sustainable RC Building", *First International Conference on Technologies for Smart Green Connected Society 2021*, November 28-29, 2021, Yamagata University, Yonezawa, Japan.
3. Krishna Kumar Maurya, Anupam Rawat and Rama Shanker (2021) "Numerical Approach for Health Monitoring of Bacterial Concrete Structure using EMI Technique." *International Conference on Futuristic Technologies*, 22-24 Jan, IIT Delhi, India.
4. Shubham Pandey, Anupam Rawat and A. K. Sachan (2021) "Study of Rigid Pavement for Varying Conditions using Kenpave." *International Conference on Futuristic Technologies*, 22-24 Jan, IIT Delhi, India
5. Anjali Singh, P. K. Mehta, Rakesh Kumar (2021) "Performance of Binary Admixture (Fly Ash and Silica Fume) Mixed Recycled Coarse Aggregate Self Compacting Concrete" *International Virtual Conference on Innovative Trends in Hydrological and Environmental Systems' (ITHES-2021)*, NIT Warangal, pp. 325-326, April 28-30, 2021
8. Mohd. Zaid, D. Basu. (2021). Understanding the Linkage between Ambient Air Quality and Land Use/Land-Cover Changes: A GIS Based Integrated Approach. *International Conference on Advances in Chemical, Biological and Environmental Engineering (ICACBEE-2021)*, April 23-24, 2021, MNIT Jaipur, India, pp. 57, ISBN: 978-93-81891-68-1.
9. Ankit Kumar, D. Basu. (2021). Trend and Variability of Meteorological Drought Over Districts of Uttar Pradesh. *International Conference on Advances in Chemical, Biological and Environmental Engineering (ICACBEE-2021)*, April 23-24, 2021, MNIT Jaipur, India, pp. 58, ISBN: 978-93-81891-68-1
10. Riya Verma, D. Basu, R. M. Singh. (2021). Water Quality Time Series Modeling using Statistical and Ensemble Models. *International Conference on Advances in Chemical, Biological and Environmental Engineering (ICACBEE-2021)*, April 23-24, 2021, MNIT Jaipur, India, pp. 75, ISBN: 978-93-81891-68-1
11. S. Yadav, D. Basu, A. K. Sachan (2021), Trend Analysis of Temperature Over Orissa Region (India) *International Conference on Advances in Chemical, Biological and Environmental Engineering (ICACBEE-2021)*, April 23-24, 2021, MNIT Jaipur, India, pp. 90, ISBN: 978-93-81891-68-1.



12. Amit Kumar, D. Basu (2021), Optimization of Removal of Cr (VI) from Wastewater by Electrocoagulation Process using Response Surface Methodology, International Conference on Recent Innovations in Cleaner Technologies (RICT-2021), March 8-9, 2021, Department of Chemical Engineering, MNIT Jaipur, India.
13. Mohd Zaid, Amit Kumar, D. Basu (2021), Selection of Municipal Wastewater Treatment Unit using MCDM Approach: A Case Study of Prayagraj City, Uttar Pradesh, International Conference on Recent Innovations in Cleaner Technologies (RICT-2021), March 8-9, 2021, Department of Chemical Engineering, MNIT Jaipur, India.
14. AniketMaurya, D. Basu (2021), Reliability Analysis of Conventional Drinking Water Treatment Plant: A Case Study of Prayagraj, India, International Conference on Water Desalination, Treatment & Management (InDACON 2021), March 19 – 20, 2021, Indian Desalination Association and Department of Chemical Engineering, MNIT Jaipur, India.
15. Riya Verma, D. Basu, R. M. Singh (2021), Assessment of water quality variation in upper ganga canal after extreme flood events using interrupted time series modelling, International Conference on Water and Environment (ICWE – 2021), March 22-23, 2021, Department of Civil Engineering, Maulana Azad National Institute of Technology, Bhopal, India
16. Debolina Basu, Priyaranjan Pal & Ankit Prakash, Utilization of waste sludge in cementitious matrix: a feasibility study, International conference on recent trends in construction materials and structures (ICCMS 2021), St. Thomas Institute for Science and Technology, Trivandrum, December 14-19, 2021.
17. Arun Singh Chahar and Priyaranjan Pal, Study on various properties of reinforced concrete: a review, International conference on recent trends in construction materials and structures (ICCMS 2021), St. Thomas Institute for Science and Technology, Trivandrum, Dec. 14-19, 2021.
18. Arun Singh Chahar and Priyaranjan Pal, Study on various properties of reinforced concrete: a review, *Materials Today: Proceedings*, 65 (2), pp. 597-602, March, 2022, DOI: 10.1016/j.matpr.2022.03.193.
19. Pawan Kumar, Roop Kishor & V. P. Singh (2021) “Study of biomass growth and decontamination potentials of vetiver (*Chrysopogon zizanioides*) in Pb-contaminated alluvial soil” Proceeding of International Conference on Life Sciences and Biotechnology (The 4<sup>th</sup> ICOLIB), towards sustainable development: application of biosciences to improve welfare and quality of life organized by Department of Biology, Faculty of Mathematics and Natural Sciences, University of Jember, Indonesia, during November 15<sup>th</sup>-16<sup>th</sup>, 2021, <https://unej.id/abstractbookicolib2021>.
20. Vijay Kumar, R. P. Tiwari & Deepak Kumar, “Use of Polyvinyl acetate and Glass Fiber for improving Expansive soil” International Conference on Advances in Structural Mechanics and Applications (ASMA-2021), 6<sup>th</sup> – 8<sup>th</sup> October 2021, Organised by Department of Civil Engineering, NIT Silchar, India.
21. Gupta, R. D. & Sarif, M. O., 2021, Monitoring Spatiotemporal Land use and Land Cover Dynamics: A Case Study of Kolkata Megapolis, India (1991-2021). 1<sup>st</sup> International Conference on Sustainable Development in Civil and Electrical Engineering (SDCEE-2021), NIT Kurukshetra, (Haryana), 17-19 December, 2021.
22. Deep Tripathi, Rakesh Kumar, P. K. Mehta, Amrendra Singh “A Sustainable Concrete with Manufactured Sand in Different Aggressive Environments” Springer Nature Lecture Notes in Civil Engineering, Recent Advances in Structural Technologies, Vol- 135, Chap- 1, pp. 1-10, April 2021, (ISBN:978-981-33-6388-5) (DOI: [https://doi.org/10.1007/978-981-33-6389-2\\_1](https://doi.org/10.1007/978-981-33-6389-2_1)). (Scopus)
23. Amrendra Singh, Rakesh Kumar, P. K. Mehta, Deep Tripathi, “Mechanical Performance of Self Compacting Concrete with Pozzolanic Material”, Springer Nature- Lecture Notes in Civil Engineering, Recent Advances in Structural Technologies, Vol-135, Chap-2, pp. 11-20, April 2021. (ISBN:978-981-33-6388-5)(DOI:[https://doi.org/10.1007/978-981-33-6389-2\\_2](https://doi.org/10.1007/978-981-33-6389-2_2)). (Scopus)
24. Vishal Rawat, Rakesh Kumar, A. K. Sachan, Deep Tripathi, “Effect of Steel Fibre on

- Mechanical Properties of Metakaolin Mixed Concrete”, Springer Nature- Lecture Notes in Civil Engineering, Recent Advances in Structural Technologies, Vol-135, Chap-11, pp. 101-110, April 2021. (ISBN: 978-981-33-6388-5) (DOI: [https://doi.org/10.1007/978-981-33-6389-2\\_11](https://doi.org/10.1007/978-981-33-6389-2_11)). (Scopus)
25. Deep Tripathi, Rakesh Kumar, P. K. Mehta, Amrendra Singh (2021) “Use of Mineral Admixtures and M-sand for Sustainable Concrete” Spring Nature-Lecture Notes in Civil Engineering (LNCE), Vol.222, Chapter-7, pp-59-64, January 2022, (DOI:10.1007/978981-16-8495-1\_7) Scopus.
  26. Amrendra Singh, Rakesh Kumar, P. K. Mehta, Deep Tripathi (2021) “Properties of Binary Admixtures Mixed Self Compacting Concrete Exposed to Sulphate Environment” Spring Nature Lecture Notes in Civil Engineering (LNCE), Sustainable Building Materials and Construction, Vol.222, Chapter-7, pp-129-126, January 2022, (DOI:10.1007/978981-16-8495-1\_7) Scopus.
  27. Anjali Singh, P. K Mehta, Rakesh Kumar, (2021.) “Properties of Binary Admixtures and Recycled Coarse Aggregate” Spring Nature Lecture Notes in Civil Engineering (LNCE), Sustainable Building Materials and Construction, Vol.222, Chapter-7, pp-49-57, January 2022, (DOI:10.1007/978981-16-8495-1\_7). (Scopus)
  28. Deep Tripathi, Rakesh Kumar, P. K. Mehta (2021) “Characterization of Ternary Blended Self Compacting Concrete Exposed to Sulphate Environment” Proceedings of Young Concrete Researchers, Engineers & Technologists Symposium (YCRETS), July 13-14, 2021, University of the Witwatersrand, Johannesburg, South Africa, pp. 48- 55. (ISBN: 978-0-9922176-3-1)
  29. Deep Tripathi, Rakesh Kumar, P. K. Mehta (2021) “Characterization of Ternary Blended Self Compacting Concrete” 75<sup>th</sup> RILEM Annual week-International Conference on Advances in Sustainable Construction Materials & Structures, Aug 30<sup>th</sup> to September 03, 2021, Merida, Mexico. (Abstract accepted)
  30. Deep Tripathi, Rakesh Kumar, P. K. Mehta (2021) “Development of An Environmental friendly Durable Concrete” International Conference on Chemical, Bio & Environmental Engineering (CHEMBIOEN-2021), August 20-22, 2021, Department of Chemical Engineering, NIT Jalandhar, Punjab, India.
  31. Deep Tripathi, Rakesh Kumar, P. K. Mehta (2021) “Eco-friendly Self Compacting Concrete for Sustainable Development” F-EIR Conference: Environment Concerns and its Remediation, October 18-22, 2021, Chandigarh, India.
  32. Anjali Singh, P. K. Mehta, Rakesh Kumar, “The effect of Fly Ash and Recycled Coarse Aggregate on the mechanical properties of Self Compacting Concrete” International conference on Recent Developments on Materials, Reliability, Safety and Environmental issues– 2021, June 25-27, 2021, NIT Jalandhar.
  33. Anjali Singh, P. K. Mehta, Rakesh Kumar (2021) “Performance of Binary Admixture (Fly Ash and Silica Fume) Mixed Recycled Coarse Aggregate Self Compacting Concrete” International Virtual Conference on Innovative Trends in Hydrological and Environmental Systems' (ITHES-2021), 28-30<sup>th</sup> April 2021, NIT Warangal. pp. 325-326.
  34. Varun Singh, Anurag Upadhyay, Asit Kumar (2021), “Integrated Sensor Based Approach for Traffic Congestion Prediction using Probe Vehicle”, International Conference on Recent Advances in Civil Engineering (ICRACE2021), Sept. 17-19, 2021.
  35. Atut Patel, Varun Singh, Rama Shanker, “FEM Based Parametric Analysis for investigating Wheel Base Characteristics and Axle Configurations on Flexural Stresses in Rigid Pavements, International Conference on Advances in Construction Materials and Structures”, Dec. 15-17, 2021
  36. Hemant Singh Parihar, Rama Shanker, Varun Singh, "Effect of Variation of Steel Reinforcement on Ultrasonic Pulse", International Conference on Advances in Construction Materials and Structures”, Dec. 15-17, 2021
  37. Savita Verma, Shailendra Chaudhary, Nekram Rawal, Selection of a Sustainable Method for Municipal Solid Waste Using AHP and TOPSIS Techniques, 2<sup>nd</sup> International Conference on

Futuristic & Sustainable Aspects in Engineering and Technology on 24<sup>th</sup>-26<sup>th</sup> December 2021, Department of Civil Engineering, GLA University Matura.

review” in First Indian Geotechnical and Geoenvironmental Engineering Conference 2021 (IGGEC-21), November 19-20, 2021 Organised by Dr. B. R. Ambedkar National Institute of Technology Jalandhar, Punjab, India.

#### Publication in National Conferences

1. Dharmendra Singh and Vijay Kumar, “Slope stability analysis of highway embankment by using GEO5 software” in First Indian Geotechnical & Geoenvironmental Engineering Conference 2021 (IGGEC-21), November 19-20, 2021 Organised by Dr. B. R. Ambedkar National Institute of Technology Jalandhar, Punjab, India.
2. Dharmendra Singh & Vijay Kumar, “Stabilization of black cotton soil by using RBI grade-81: A
3. Harshit Srivastava, R. P. Tiwari, Vijay Kumar and Dharmendra Singh, “A Review on Various Geotechnical and Geophysical Investigations for a Dam Rehabilitation Project” in First Indian Geotechnical & Geoenvironmental Engineering Conference 2021 (IGGEC-21), November 19-20, 2021 Organised by Dr. B. R. Ambedkar National Institute of Technology Jalandhar, Punjab, India.

#### Reviewer in International Journals and Conferences

Sl. No.	Faculty Name	Journal Name
1.	Dr. P. R. Pal	Indian Concrete Journal International Journal of Engineering and Technology Innovation Case Studies in Construction Materials
2.	Dr. R. D. Gupta	Applied Geomatics ISPRS International Journal of Geo-Information GeoCarto International World
3.	Dr. Shalinee Shukla	Jordan Journal of Civil Engineering Cleaner Materials, Elsevier Journal of Cleaner Production, Elsevier
4.	Dr. L. K. Mishra	ACI Materials Journal, Farmington Hills, Michign, USA (2021-22)

#### Book(s)/Book(s) Chapter(s) Authored

SI.No.	Faculty Name	Book	Book Chapter	Publisher
1.	Dr. L. K. Mishra & Dr. Goutam Ghosh	Lecture Notes in Civil Engineering	Advances in Civil Engineering	Springer, Singapore
2.	Dr. Goutam Ghosh	Lecture Notes in Civil Engineering	Seismic Hazards and Risk	Springer, Singapore
3.	Dr. Goutam Ghosh	Reliability-Based Analysis and Design of Structures and Infrastructure	Resilience-Based Design of Buildings	CRC Press, Taylor & Francis
4.	Dr. K. Hemkar, Dr. L. K. Mishra & Dr. Ghosh Ghosh	Ductility Assessment of an RC Section,	Advances Civil Engineering,	Springer, Singapore.
5.	Dr. Prasanth S & Dr. Ghosh Ghosh.	“Implementation of Framework for Seismic Resilience Assess-ment of a R.C. Building”,	Sitharam T. G., Kolathayar S., Sharma M. L. (eds) Seismic Hazards and Risk,	Springer, Singapore.
6.	Dr. S. Prasanth & Dr. Goutam Ghosh	“Resilience-Based Design of Buildings”,	Reliability-Based Analysis and Design of Structures and Infrastructure	CRC Press, Taylor & Francis



7.	Dr. K. K. Pathak et al. (Eds)	Recent Trends in Civil Engg.	Monitoring Methods of Concrete from Early Age Strength Gain of Concrete: A Review'	Springer Nature
8.	Dr. Preeti Agarwal, Dr. Priyaranjan Pal & Dr. Pradeep Kumar Mehta	Skew effect on box girder bridge	Lecture Notes in Civil Engineering, Advances in Geotechnics and Structural Engineering	Springer Nature, Singapore
9.	Dr. Deepak Kumar Singh & Dr. Priyaranjan Pal	Frequencies of stiffened lock gate coupled with undisturbed fluid	Lecture Notes in Civil Engg., Advances in Geotechnics & Structural Engineering	Springer Nature, Singapore
10.	Dr. V. P. Singh	Proceedings of Indian Geotechnical and Geo environmental Engineering	The Potential of Chryso-pogon zizanioides (L.) Nash in remediation of heavy metal contaminated land - A Review <a href="https://doi.org/10.1007/978-981-19-4731-5_6">https://doi.org/10.1007/978-981-19-4731-5_6</a>	Springer
11.	Dr. Vijay Kumar	Geotechnical Characterization and Modelling,	Prediction of coefficient of compression of soil using artificial neural network	Lecture Notes in Civil Engineering 85, 2020 ( <a href="https://doi.org/10.1007/978-981-15-6086-6_72">https://doi.org/10.1007/978-981-15-6086-6_72</a> ), pp.: 917-926.
12.	Dr. Varun Singh	Machine Learning Approaches for Urban Computing	A Spatiotemporal Accessibility Analysis of Bus Transportation Facility in the National Capital Territory (NCT) of Delhi, India	Springer
13.	Dr. N. R. Rawal	Environmental Degradation: Monitoring, Assessment and Treatment Technologies	Ranking of Municipal Waste water Treatment Alternatives Using Analytical Network Process Technique	Springer, Cham
14.	B. Naresh, K. Venkatesh, L. K. Mishra	Lecture Notes in Civil Engineering, Seismic Hazards and Risk	The Seismotectonic Setting of Indo-Gangetic Plain and Its Importance	Scopus

#### Invited Lectures Delivered

1. A lecture is delivered by Dr. Hemant Kumar Pandey at 5<sup>th</sup> National geo-research scholar meet 2021, WIHG Dehradun on 22/07/2021 entitled Groundwater issues and options.
2. A lecture is delivered by Dr. Hemant Kumar Pandey at Short Term Course on recent approaches in waste water treatment, Department of Chemical Engineering, MNNIT Allahabad on 01/02/2022 entitled Groundwater quality assessment and its management.
3. A lecture is delivered by Dr. Hemant Kumar Pandey at AAWRM-2022, Government Engineering College, Sonbhadra on 10/03/2022
4. A lecture is delivered by Dr. Hemant Kumar Pandey at Webinar on World Water Day, Aliah University, Kolkatta on 22/03/2022, entitled Tackling the issues related to groundwater and exploring the options.
5. A lecture delivered by Dr. P. K. Mehta, Quality Construction Processes", A Residential Training Program on Quality Standards, Material Testing and Third Party Inspections with a Focus o Pipe Quality Testing, Sponsored by National Jal Jeevan Mission, Department of Drinking Water & Sanitation, Ministry of Jal Shakti, Gol, Organised by CED, MNNIT Allahabad, Prayagraj, Nov 24-28, 2021. (25/11/2021)

6. A lecture delivered by Dr. P. R. Pal on 24.05.2021, Innovation in Concrete Mix Design, GNA University, Phagwara, Punjab 144401
7. A lecture delivered by Dr. P. R. Pal on 19.06.2021, Mix Design, Ramkrishna Mahato Government Engineering College, Purulia, West Bengal.
8. A lecture delivered by Dr. P. R. Pal on 25.11.2021, Cement and Aggregates Testing Protocols and Quality Standards, Training Program of Quality Standards, Material Testing and Third-Party Inspections with Focus on Pipe Quality Testing, November 24-28, 2021, CED, MNNIT, Allahabad
9. Lecture Entitled "Application of Geographic Information Systems (GIS) with Environmental Perspective" in AICTE Sponsored One Week Short Term Course on Environmental Modeling & Practices organized by MITS, Gwalior on 06.12.2021.
10. Self financed short term course on novel approaches in wastewater treatment (NAWT-2022) during February 01-05, 2022 organized by the Departments of Chemical Engineering and Civil Engineering, MNNIT, Allahabad (U.P.) (Dr. Sushil Kumar, ChED; Dr.Nekram Rawal, CED; Dr. Ankur Gaur).
11. Lecture delivered by Dr. L. K. Mishra on "Over view of Construction Industry and Construction Projects and Construction Methodologies in India" at Project Implementation under offline mode- 5 DAYS Residential Training Program of JJM in the MNNIT, Allahabad from 10-11-2021 to 14-11-2021.
12. Lecture delivered by Dr. L. K. Mishra on "Reinforcement Steel Bars and their Quality Standards" at Training Program of JJM on Quality Standards, Material Testing and Third Party Inspections with a Focus on Pipe Quality Testing, CED, MNNIT Allahabad 28<sup>th</sup> November 2021.

#### Events Organized by Department

Sl. No.	Name	Title	From	To
1.	Training Program	Jal Jeevan Mission	10.11.2021	14.11.2021
2.	Training Program	Quality Standards, Material Testing and Third Party Inspections with a Focus on Pipe Quality Testing	24.11.2021	28.11.2021
3.	Training Program	Foundation Analysis, Design and Construction Technique (FACT-2020)	20.12.2021	24.12.2021
4.	Training Program	Novel Approaches in Wastewater Treatment (NAWT-2022)	01.02.2022	05.02.2022
5.	Short term Course (online)	Foundation: Analysis, Design and Construction Technique (FACT-2020)	20.12.2021	24.12.2021
6.	Short-Term Course (Online)	Software Application for Analysis and Design of Structures (SAADS-2021)	26.07.2021	30.07.2021
7.	Training Programme	Project Implementation under JJM offline mode at MNNIT Allahabad	10.11.2021	14.11.2021

#### Research Projects Completed/Ongoing

Sl. No.	Principal Investigator /Co investigator(s)	Project Title	Funding Agency	Amount (INR)	Duration
1.	Dr. H. K. Pandey	Novel Approaches in Wastewater Treatment (NAWT- 2022).	NRDMS, DST, New Delhi	Rs.15.00 Lakhs	Ongoing
2.	Dr. H. K. Pandey	Land use/Land cover change modelling and sustainable development of Water Resources in the Ghaghara river basin.	NRDMS, DST, New Delhi	Rs. 29.81 Lakhs	Ongoing
3.	Dr. Vijay Kumar	Development of In-House Expertise on Dam Safety under Dam Commission, Govt.of	Central Water Dam Commission, Govt.of	Rs. 461.00 Lakhs	Completed

		Rehabilitation and Improvement Project (DRIP).	India, New Delhi		
4.	Dr. H. K. Pandey (PI)	Identification of Groundwater Prospect and Recharge Zones in District, Banda, U.P.	NRDMS, DST, New Delhi	18.24 Lakh	
5.	Dr. N. R. Rawal (PI)	Ambient Air Quality Monitoring and Noise Monitoring	U.P. Pollution Control Board, Lucknow	10.56 Lakhs	Ongoing
6.	Dr. N. R. Rawal	Application of Iron Oxide nanoparticles for heavy metal removal from river Ganga	DST, New Delhi / NASI, Allahabad	3.52 Lakhs	Completed

### Other Information

1. Member of the Research Degree Committee (RDC) of Civil Engineering / Environmental Science discipline AKTU, Lucknow
2. Member of Planning and Development Board of University of Allahabad 22-07-2021 till date
3. Member of Building and Work Committee University of Allahabad
4. Member State Centre Committee, IE(I) State Centre UP, Lucknow and Special Invitee , National Languages Promotional Committee (NLPC), The Institution of Engineers (India) (Session 2021-22)

### 9.4 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 excel-

lence 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 Laboratory
4. Process Dynamics & Control Laboratory
5. FPM & MO Laboratory
6. Chemical Reaction Engineering Laboratory
7. PG Analytical Laboratory
8. CAD Laboratory

#### Courses run by Department:

1. B. Tech. (Chemical Engineering)
2. M. Tech. (Chemical Engineering)

#### Courses in which students were admitted during 04/2021 - 03/2022:

1. B. Tech. (Chemical Engineering)
2. M. Tech. (Chemical Engineering)

#### List of Ph.D. Thesis Completed

Sl.No.	Name of Student	Reg. No.	Thesis Title	Thesis Supervisor(s)
1.	Sanjay Singh	2016RCL51	Kinetics of pyrolysis of agricultural crop residue and co-pyrolysis of agricultural crop residue and plastic waste via thermogravimetric analysis	Dr. Ashish N. Sawarkar
2.	Arijit Dutta Gupta	2017RCL03	Batch and continuous studies on arsenic remediation from water using novel adsorbents prepared from waste materials	Dr. Harinder Singh
3.	Rajnish Kumar Singh	2017RCL04	Kinetics of pyrolysis of biomass via thermoanalytical methods	Dr. Ashish N. Sawarkar

**Publication in International Journals**

1. S. Singh, T. Patil, S. P. Tekade, M. B. Gawande, A. N. Sawarkar, "Studies on individual pyrolysis and co-pyrolysis of corn cob and polyethylene: thermal degradation behavior, possible synergism, kinetics, and thermo dynamic analysis", *Science of the Total Environment*, vol.783, 04/2021, Published by Elsevier. (SCI)
2. D. S. Patle, V. Agrawal, S. Sharma, G. P. Rangaiah, "Plantwide control and process safety of formic acid process having a reactive dividing-wall column and three material recycles", *Computers & Chemical Engineering*, vol.147, pp.107248, 04/2021, (SCI, IF = 4)
3. S. Shrikhande, G. Deshpande, A. N. Sawarkar, Z. Ahmad, D. S. Patle, "Design and retrofitting of ultrasound intensified and ionic liquid catalyzed in situ algal biodiesel production", *Chemical Engineering Research and Design*, vol.171, pp.168-185, 05/2021, Published by Elsevier. (SCI)
4. Arijit Dutta Gupta, Vivek Bhadauria, Harinder Singh, "Silica derived from rice husk ash and loaded with iron oxide for As(III) adsorption from water: experimental and modeling studies", *International Journal of Environmental Analytical Chemistry*, pp.1-24, 06/2021. (SCI, IF=1.8)
5. A. Tagade, N. Kirti, A. N. Sawarkar, "Pyrolysis of agricultural crop residues: An overview of researches by Indian scientific community", *Bioresource Technology Reports*, vol.15, 07/2021, Published by Elsevier. (Scopus)
6. D. S. Patle, R. Zarghami, S. Kumar, "Editorial special section: selected extended papers from an International Conference on Energy and Environmental Technologies for Sustainable Development (Chem-Conflux20)", *Chemical Product & Process Modeling*, 07/2021. (Scopus)
7. S. Shrikhande, G. Deshpande, A. N. Sawarkar, Z. Ahmad, D. S. Patle, "Design and retrofitting of ultrasound intensified and ionic liquid catalyzed in situ algal biodiesel production", *Chemical Engineering Research and Design*, vol.171, pp.168-185, 07/2021, (SCI, IF = 3.5)
8. R. K. Singh, T. Patil, D. Pandey, Sawarkar, A. N., "Pyrolysis of mustard oil residue: a kinetic and thermodynamic study", *Bioresource Technology*, 07/2021, Published by Elsevier. (SCI)
9. A. Gautam, P. R. Bhagat, S. Kumar, D. S. Patle, "Dry Route Process and Wet Route Process for Algal Biodiesel Production: A Review of Techno-economical Aspects", *Chemical Engineering Research and Design*, vol.174, pp.365-385, 08/2021, Published By Elsevier. (SCI, IF = 3.8)
10. Arijit Dutta Gupta, K. P. Rawat, Vivek Bhadauria, Harinder Singh, "Recent trends in the application of modified starch in the adsorption of heavy metals from water: A review,", *Carbohydrate Polymers*, vol.9, Issue 6, pp.106376, 09/2021, (SCI, IF = 9.5)
11. S. P. Tekade, G. R. Jadhav, S. E. Kalekar, A. S. Pednekar, D. Z. Shende, K. L. Wasewar, A. N. Sawarkar, "Utilization of human urine and waste aluminum for generation of hydrogen", *Bioresource Technology Reports*, vol.15, 09/2021, Published by Elsevier. (Scopus)
12. Harinder Singh, Navdeep Singh Sodhi, Bhavinta Dhillon, Yung Ho Chang and Jheng Hua Lin, "Physicochemical and structural characteristics of sorghum starch as affected by acid-ethanol hydrolysis", *Journal of Food Measurement and Characterization*, vol.9, pp.2377-2385, 09/2021, Published by Springer. (SCI, IF=2)
13. R. K. Singh, T. Patil, D. Pandey, S. P. Tekade, A. N. Sawarkar, "Co-pyrolysis of petroleum coke and banana leaves biomass: Kinetics, reaction mechanism, and thermodynamic analysis", *Journal of Environmental Management*, vol.301, 10/2021, Published by Elsevier. (SCI)
14. N. Kirti, S. P. Tekade, A. Tagade, A. N. Sawarkar, "Pyrolysis of pigeon pea (*Cajanus cajan*) stalk: Kinetics and thermodynamic analysis of degradation stages via isoconversional and master plot methods", *Bioresource Technology*, vol.347, 11/2021, Published by Elsevier. (SCI)
15. A. N. Sawarkar, "Reaction kinetics and coke forming propensities of Arabian mix asphalt vis-a-vis Arabian mix vacuum residue", *Petroleum Science and Technology*, 12/2021, Published by Taylor and Francis. (SCI)
16. G. Deshpande, S. Shrikhande, A. N. Sawarkar, D. S. Patle, "Multiobjective optimization of

ultrasound intensified and ionic liquid catalyzed in situ algal biodiesel production considering economic, environmental and safety indicators", Chemical Engineering Research and Design, vol.180, pp.134-152, 02/2022, Published by Elsevier. (SCI)

#### Publication in International Conferences

1. A. N. Sawarkar, "Petroleum coke gasification: Status and future perspective in Indian context", 74th Annual session of IChE (CHEMCON-2021), CSIR- Institute of Minerals and Materials Technology, Bhubaneswar, 12/2021,
2. A. Tagade, A. N. Sawarkar, "Physico-chemical characterization of various millet agro-residues for assessing their bioenergy potential", 74th Annual session of IChE (CHEMCON-2021), CSIR-Institute of Minerals and Materials Technology, Bhubaneswar, 12/2021.
3. L. Rajpoot, A. Tagade, D. S. Patle, A. N. Sawarkar, "De-oiled cakes as source of biofuels through pyrolysis: A review", 3<sup>rd</sup> International Conference on Recent Advances in Bio-Energy Research (ICRABR-2022), Sardar Swaran Singh National Institute of Bio-Energy, Kapurthala, Punjab, 03/2022.

4. A. Tagade, L. Rajpoot, A. N. Sawarkar, "Recent advances in microwave assisted pyrolysis of biomass", 3<sup>rd</sup> International Conference on Recent Advances in Bio-Energy Research (ICRABR-2022), Sardar Swaran Singh National Institute of Bio-Energy, Kapurthala, Punjab, India, 03/2022.

#### Publication in National Conferences

1. A. Tagade, A. N. Sawarkar, "Valorization of finger millet straw as a precursor for biochar production: Production, characterization, and applications", National Conference on Advances in Chemical Engineering and Science (ACES-2022), Indian Institute of Science Education and Research (IISER) Bhopal, 03/2022.
2. L. Rajpoot, A. Tagade, S. Singh, D. S. Patle, A. N. Sawarkar, "Pyrolysis of flaxseed de-oiled cake for the production of biofuels: Physico-chemical characterization, kinetics, and thermo dynamic analysis", National Conference on Advances in Chemical Engineering and Science (ACES-2022), Indian Institute of Science Education & Research (IISER) Bhopal, 03/2022.

#### Reviewer in International Journals and Conferences

Sl. No.	Faculty Name	Journal Name
1.	Dr. Ankur Gaur	Clean Technologies & Environment Policies Emerging Trends in Chemical Engineering Environmental Technology
2.	Dr. Ashish Nivrittinath Sawarkar	ACS Omega Applied Biochemistry and Biotechnology Biomass Conversion and Biorefinery Bioresource Technology Reports Energy Conversion and Management Energy Science and Engineering Environmental Science and Pollution Research Food Chemistry Ingenieriae Investigation International Journal of Energy Research Journal of Environmental Management Journal of the Indian Chemical Society Journal of the Taiwan Institute of Chemical Engineers Materials Today: Proceedings Renewable Energy Results in Engineering Results in Materials

		RSC Advances South African Journal of Chemical Engineering Sustainable Energy Technologies and Assessments Thermochimica Acta Ultrasonics Sonochemistry Vacuum
3.	Dr. Dipesh Shikchand Patle	ISA Transactions Chemical Engineering Science Fuel Chemical Product & Process Modeling Bentham Science ISA Transactions Fuel Journal of Cleaner Production
4.	Dr. Harinder Singh	Computers and Chemical Engineering Food Hydrocolloids Food Chemistry Starch International Journal of Food Science and Technology
5.	Dr. Mohd Siraj Alam	International Journal of Biological Macromolecules Journal of The Institution of Engineers (India): Series E Chemical Engineering Communications International Communications in Heat & Mass Transfer Chemical Engineering Science Journal of Polymers and the Environment Chemical and Biochemical Engineering Quarterly Journal of Applied Polymer Science Chem Conflux20
6.	Dr. Sushil Kumar	Applied Biochemistry and Biotechnology Bioprocess and Biosystem Engineering Chemical & Biochemical Engineering Quarterly Chemical Engineering Communications (Tailors and Francis) Chemical Engineering Journal Desalination Desalination and Water Treatment Energy and Fuel Fluid Phase Equilibria Industrial and Engineering Chemistry Research International Journal of Green Energy Journal of Chemical and Engineering Data Journal of Chemical Technology and Biotechnology Journal of Chemistry Journal of Molecular Liquids Journal of Polymer Materials Journal of the Polymers and Environment Resource Efficient Technologies Journal (Elsevier) Separation and Purification Technology

**Book(s)/Book(s) Chapter(s) Authored**

Sl. No.	Faculty Name	Book	Book Chapter	Publisher
1.	Md Raihan Arfin,	Contamination of Water Health	Process intensification in waste	Elsevier



Parul Katiyar, Kailas L. Wasewar & Sushil Kumar	Risk Assessment & Treatment Strategies	water treatment: cavitation and hybrid technologies for organic pollutants
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#### Invited Lectures Delivered

- Lecture delivered by Dr. Ashish Nivrittinath Sawarkar at 17<sup>th</sup> Annual event of BRSI International Conference on "Biotechnology for Sustainable Agriculture, Environment and Health" (BSAEH-2021), Jointly Organized by MNIT Jaipur and The Biotech Research Society, India held at Birla Institute of Scientific Research, Jaipur, Rajasthan, India on 06/04/2021 entitled Current status of pyrolysis of agricultural crop residues in India: Challenges and opportunities.

#### Expert/Invited Lectures Organized

- A lecture delivered by Mr. Abhinay Sangwai, Project Manager, Petrofac, Mumbai on 06/2021 entitled Global Energy Outlook & Transformation.
- A lecture delivered by Mr. Md Rizwan, Doctoral Researcher, Norwegian University of Science and Technology, NTNU, Norway on 02/2022 entitled Significance and Opportunities for Higher Studies: My Experience as a Chemical Engineer.

#### Research Projects Completed/Ongoing

Sl. No.	Principal Investigator /Co investigator(s)	Project Title	Funding Agency	Amount (INR)	Duration
1.	Dr. Mohd Siraj Alam (PI)	Preparation of dip charts for storage tank of organic liquids	TEQIP-II	Rs.50000	Ongoing
2.	Dr. Sushil Kumar (Co-PI)	Inspection of GPs for compliance verification of effluents discharge standard	CPCB, New Delhi	Rs.1.00 Crore	Ongoing
3.	Dr. Sushil Kumar (PI)	Reactive extraction of nicotinic- and isonicotinic acids from aqueous solution	Dept. of Science & Technology (DST), Government of India New Delhi (India)	Rs. 11.11 Lakhs	Ongoing
4.	Dr. Ashish Nivrittinath Sawarkar (PI)	Studies on Pyrolysis of Rice Husk	MVP, Mumbai	Rs.1.00 Lakhs	Ongoing
5.	Dr. Sushil Kumar (Co-PI)	Development of new methodology for parameters effecting the energy efficiency of HVAC systems	M/s Felidae Systems, Noida	Rs.54000	Ongoing
6.	Dr. Dipesh Shikchand Patle (Co-PI)	Direct biodiesel synthesis from microalgae through in situ transesterification using homogeneous catalyst	USM Malaysia (RUI)	Rs.70000	Ongoing
7.	Dr. Ankur Gaur (PI)	Development & Characterization of Nano-material based Transparent Thermal Coating	Starshield Paint, Ghaziabad	Rs.1.20 Lakhs	Ongoing
8.	Dr. Sushil Kumar (PI)	Bioremediation for the removal of reactive dyes from industrial waste water	CST, UP Lucknow	Rs.10.44 Lakhs	Ongoing
9.	Dr. Ashish Nivrittinath Sawarkar (PI)	Kinetic & thermodynamic analyses of pyrolysis of sugarcane leaves through thermogravimetric analysis	Indian Institute of Chemical Engineers (IICChE), Kolkata	Rs.10,000	Ongoing
10.	Dr. Dipesh Shikchand Patle (PI)	In situ biodiesel production from microalgae using ultrasonic assisted reactor	SERB	Rs.9.71 Lakhs	Ongoing



11.	Dr. Ashish Nivrittinath Sawarkar (PI)	Value Added Products from Bottom-of-the-barrel	Plan Grant of Institute, MNNIT Allahabad	Rs.2.80 Lakhs	Ongoing
12.	Dr. Ankur Gaur (PI)	Development of new methodology for parameters effecting the energy efficiency of hvac systems	Felidae Systems, Noida	Rs.54000	Ongoing
13.	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	Rs.31.6 Lakhs	Completed on 12/2021

### Other Relevant Information

- Ms. Ankita Tagade, Ph.D. scholar, was adjudged with the Best Oral Talk for the paper titled "Valorization of Finger Millet Straw as a Precursor for Biochar Production: Production, Characterization, and Applications" authored by Ankita Tagade and Ashish N. Sawarkar, in one of the technical sessions (Renewable and Sustainable Energy) in the National Conference on "Advances in Chemical Engineering and Science" (ACES-2022) held at Indian Institute of Science Education and Research (IISER) Bhopal during 25-26 March, 2022 on 03/2022.

### 9.5 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

- Undergraduate Laboratory.
- Research Laboratory.

#### Courses Run by Department:

- Chemistry CY 1101.
- Chemistry CY 1201.
- Chemistry Lab CY 1152.
- Chemistry Lab CY 1252.
- OPC CY 1401.
- OPC Lab CY 1451.
- Nano-Biotechnology CY 701.
- Advance Spectroscopy CY 6101.
- Advance Spectroscopy CY 6201

#### Courses in which students were admitted during 04/2021 - 03/2022:

- Chemistry CY 1101.
- Chemistry CY 1201.
- Chemistry Lab CY 1152.
- Chemistry Lab CY 1252.
- OPC CY 1401.
- OPC Lab CY 1451.
- Nano-Biotechnology CY 701.
- Advance Spectroscopy CY 6201.

### List of Ph.D. Thesis Completed

Sl. No.	Name of Student	Reg. No.	Thesis Title	Thesis Supervisor(s)
1.	N. C. Bhanumathi Devi	Ph.D/13/PH ARM/1171	15N NMR spectroscopic studies & investigation of spectral data property relationships of selected drugs	Dr. Tamal Ghosh
2.	Prabha Bhartiya	2015RCH03	Chitosan modified nanomaterials for effective photothermal cancer therapy	Dr. P. K. Dutta
3.	Shefali Jaiswal	2017RCH01	Nucleophilic addition mediated chitosan	Dr. P. K. Dutta

4.	Srasti Yadav	2016RCH01	nanoplatfoms for gene transfection and drug delivery Multicomponent based chitosan nano- composite films for active food packaging	Dr. P. K. Dutta & Dr. G. K. Mehrotra
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#### Publication in International Journals

1. Shefali Jaiswal, P. K. Dutta, Santosh Kumar, Ruchi Chawla, "Chitosan modified by organo-functionalities as an efficient nanoplatfom for anti-cancer drug delivery process", *Journal of Drug Delivery Science and Technology*, vol.62, pp.102407, 04/2021, Published by Elsevier. (SCI, IF=3.98)
2. Srasti Yadav, G. K. Mehrotra & P. K. Dutta, "Chitosan for Food Packaging: A Systematic Approach", *Asian Chitin Journal*, vol.17, Issue 1, pp.1-12, 06/2021, Published by SSM.
3. Ruchi Chawla, Shefali Jaiswal, P. K. Dutta and Lal Dhar S. Yadav, "A photocatalyst-free visible-light-mediated solvent-switchable route to stilbenes/vinyl sulfones from  $\beta$ -nitrostyrenes and arylazosulfones", *Organic & Biomolecular Chemistry*, vol.19, Issue 29, pp.6487-6492, 06/2021, Published by RSC. (SCI, IF=3.876)
4. Ashish Raina, Komal Kumar Yadav, Yadvendra Singh, Tamal Ghosh, "Selective colorimetric and fluorimetric detection of cyanide by malonohydrazone derivative and its live cell imaging", *Journal of Chemical Sciences*, vol.133, Issue 3, pp.doi.org/10, 09/2021, Published by Springer. (SCI, IF=2.15)
5. Sudheer Rai, Shiva Arun, Amit Kumar Kureel, P. K. Dutta & G. K. Mehrotra, "Preparation of Dextran Aldehyde and BSA Conjugates from Ligno-cellulosic Biowaste for Antioxidant and Anti-cancer Efficacy", *Waste & Biomass Valorization*, vol.12, pp.1327-133, 12/2021, Published by Springer. (SCI, IF=3.703)
6. Shefali Jaiswal, Pradip Kumar Dutta, Santosh Kumar, Joonseok Koh, Myung Chul Lee, Jae Woon Lim, Shambhavi Pandey, Pankaj Garg, "Synthesis, characterization and application of chitosan- N- (4-hydroxyphenyl)- methacrylamide derivative as a drug and gene carrier", *International Journal of Biological Macromolecules*, vol.195, Issue 11, pp.75-85, 01/2022, Published by Elsevier. (SCI, IF=8.025)

7. Priya Rai, Ashutosh Pandey, Anjana Pandey, Evaluation of low cost immobilized support matrices in augmentation of biohydrogen potential in dark fermentation process using *B. licheniformis* AP1, *Fuel* 310 (2022) 122275 (Impact Factor: 6.609).

#### Publication in National Journals

1. Ruby Kumari, S. S. Narvi, P. K. Dutta, "Thiol modified chitosan-silica nanohybrid for antibacterial, antioxidant and drug delivery application", *Journal of the Indian Chemical Society*, vol.98, Issue 8, pp.100108, 08/2021, Published by Elsevier. (SCI, IF = 0.284)
2. Shiva Arun, Vinay Kumar Singh, Amreen Naz, Shahid Suhail Narvi, Pradip Kumar Dutta, "A comparative catalytic study using different metal ions by incorporating functionalized metallosalen into the lacunary position of Kegginpolyoxo metalate", *Journal of the Indian Chemical Society*, vol.98, Issue 9, pp.100118, 09/2021, Published by Elsevier. (SCI, IF=0.284)
3. Amreen Naz, Shiva Arun, Vidya Singh, Shahid Suhail Narvi, Mohammad Siraj Alam, P. K. Dutta, "Efficient and reusable Cu (II)-metalated silica-based inorganic-organic hybrid catalyst for dye degradation", *Journal of the Indian Chemical Society*, vol.99, Issue 1, pp.100296, 01/2022, Published by Elsevier. (SCI, IF = 0.284)

#### Publication in International Conferences

1. Ruchi Chawla and P. K. Dutta, "Photocatalyst-free visible light mediated denitrative sulfonylation of  $\beta$ -nitrostyrenes using arylazosulfones", *International Seminar on Recent Advances in Chemistry and Material Science (RACMS-2021)*, IISER Kolkata, pp.xxx, 08/2021, Published by Indian Chemical Society.

#### Publication in National Conferences

1. Ruby Kumari, S. S. Narvi, P. K. Dutta, "Evaluation of antioxidant and antibacterial activity by using Cu(II)- metalated silica-based Schiff's base complex", 58th Annual Convention of Chemists International Conference on Recent

- Trends in Chemical Sciences (RTCS-2021), Kolkata, pp.ix, 12/2021, Published by Indian Chemical Society.
2. Ruchi Chawla and P. K. Dutta, "Visible-light-mediated solvent-switchable route to stilbenes/vinyl sulfones from  $\beta$ -nitrostyrenes and arylazosulfones under photocatalyst-free condition", Chemical Research Society of India 28<sup>th</sup> National Symposium in Chemistry (CRSI NSC-28), IIT Guwahati, pp.xx, 03/2022, Published by Chemical Research Society of India.

#### Reviewer in International Journals and Conferences

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

**Book(s)/Book(s) Chapter(s) Authored**

Sl.No.	Faculty Name	Book	Book Chapter	Publisher
1.	P. K. Dutta, Srasti Yadav, G. K. Mehrotra	Chitosan for Biomaterials-III Structure-Property Relationships	Modified Chitosan Films/Coatings for Active Food Packaging	Springer
2.	Tanvi Jain & P. K. Dutta	Versatile Solicitations of Materials Science in Diverse Science Fields	Nanoconjugates from Chitosan Hydrogel: A Novel Drug Delivery Tool	Nova
3.	Ruchi Chawla & P. K. Dutta	Engineering Materials for Stem Cell regeneration	Chitosan for Wound Healing in the Light of Skin Tissue Engineering and Stem Cell Research	Springer Nature

**9.6 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 & Engineering.
4. M. Tech. in Software Engineering.
5. M. Tech. in Information Security.
6. MCA.

**Courses in which students were admitted during 04/2021 - 03/2022:**

1. B. Tech. in Computer Science and Engineering.
2. B. Tech. in Information Technology.
3. M. Tech. in Computer Science & 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.	Naveen kumar	2014RCS04	Enforcing Security Against Major Attacks	Dr. Shashank

2.	Nitin Shukla	2014RCS52	in Named Data Networking Design and Implementation of Software Defined Low Overhead structured Peer to Peer Networks	Srivastava Dr. Shashank Srivastava
3.	Prince Sharma	416203	An Efficient Mobile Data Offloading for Opportunistic Networks	Dr. Shailendra Shukla

### Publication in International Journals

1. Dhruba Jyoti, Vibhav Prakash Singh, and Vinay Kumar, "A Dynamic Framework for Tuning SVM Hyper Parameters based on Moth-Flame Optimization and Knowledge-Based-Search.", Expert system with applications, vol.168, pp. 114139, 04/2021, Published by Elsevier. (SCI, IF=5.5)
2. Swati Jain, Suraj Prakash Narayan, Nalini Meena, Rupesh Kumar Dewang, Utkarsh Bhartiya, and Varun Kumar, Arvind Mewada, "Event Detection through Lexical Chain Based Semantic Similarity Algorithm", Materials Science and Engineering, vol.2021, Issue 2, pp. 1-10, 06/2021, Published by elsevier. (Scopus, IF=4.652)
3. Kamalakant Laxman Bawankule, Rupesh Kumar Dewang, Anil Kumar Singh, "Performance Analysis of Hadoop YARN Job Schedulers in a Multi-Tenant Environment on HiBench Benchmark Suite", International Journal of Distributed Systems and Technologies, vol.16, Issue 2, pp.1-12, 06/2021, Published by IGI-Global. (SCI, IF=0.92)
4. Avaneesh Kumar Yadav, Ashish Kumar Maurya, Ranvijay, Rama Shankar Yadav, "Extractive Text Summarization Using Recent Approaches: A Survey," Ingénierie des Systèmes D Information, IIETA, vol.26, Issue 1, pp.109-121, 06/2021, Published by IIETA. (Scopus )
5. Alok Kumar, Lekhraj Avjeet Singh and Anoj Kumar, "EaGWO: Extended algorithm of Grey Wolf Optimizer", Journal of Physics, vol.1998, 07/2021, Published by IOP Publishing Ltd. (Scopus)
6. Arvind Mewada, Rupesh Kumar Dewang, "Research on False Review Detection Methods: A state-of-the-art review", Journal of King Saud University-Computer and Information Sciences, 08/2021, Published by Elsevier. (SCI, IF=8.839)
7. Astha Singh, Shiv Prakash, Ankit Kumar, Divya Kumar, "A proficient approach for face detection and recognition using machine learning and high-performance computing", Concurrency and Computation: Practice and Experience, vol.34, Issue 3, 09/2021, Published by wiley online library. (SCI, IF=1.831)
8. Alok Kumar, Lekhraj & Anoj Kumar, "Weighted Grey Wolf Optimizer with Improved Convergence Rate in Training Multi-Layer Perceptron to Solve Classification Problems", Jordanian Journal of Computers and Information Technology (JJCIT), vol.7, pp.292-312, 09/2021. (Scopus)
9. P. Maity, S. Saxena, S. Srivastava, K. S. Sahoo, A. K. Pradhan & N. Kumar, "An Effective Probabilistic Technique for DDoS Detection in OpenFlow Controller", IEEE Systems Journa, vol.16, pp.1345-1354, 10/2021, Published by IEEE. (SCI)
10. Kamalakant Laxman Bawankule, Rupesh Kumar Dewang, Anil Kumar Singh, "Historical data based approach for straggler avoidance in a heterogeneous Hadoop cluster", Journal of Ambient Intelligence and Humanized Computing, vol.12, Issue 10, pp.9573-9589, 10/2021, Published by Springer Berlin Heidelberg. (SCI, IF=3.662)
11. Satya Deo K Ram, Shashank Srivastava, Krishn Kumar Mishra, "A variant of teaching-learning-based optimization and its application for minimizing the cost of Workflow Execution in the Cloud Computing", Concurrency & Computation: Practice and Experience, vol.33, Issue 21, pp.e6425, 11/2021, Published by Wiley. (SCI)
12. Dinesh Kumar, Gaurav Baranwal, Deo Prakash Vidyarthi, "Fair Resource Allocation Policies in Reverse Auction based Cloud Market", SN Computer Science, Springer, 12/2021, Published by Springer. (Scopus)



13. Rohit Kumar Sachan and Dharmender Singh Kushwaha, "A Multi-objective Anti-Predatory NIA for E-Commerce Logistics Problem", *International Journal of Applied Metaheuristic Computing (IJAMC)*, vol.13, Issue 1, 00/2022, Published by IGI Global. (SCI)
  14. Dinesh Kumar, Gaurav Baranwal, Deo Prakash Vidyarthi, "A Survey on Auction based Approaches for Resource Allocation and Pricing in Emerging Edge Technologies", *Journal of Grid Computing*, 02/2022, Published by Springer. (SCI, IF=4.674)
  15. Vibhav Prakash Singh\*, Dhruva Kalita, and Vinay Kumar, "Detection of Breast Cancer Through Mammogram Using Wavelet-Based LBP Features and IWD Feature Selection Technique", *SN Computer Science*, vol.3, Issue 1, pp.175, 02/2022, Published by Springer. (Scopus)
  16. Ashutosh Kumar Singh, Shashank Srivastava & Shashwati Banerjee, "Evaluating heuristic techniques as a solution of controller placement problem in SDN", *Journal of Ambient Intelligence and Humanized Computing*, pp.1-18, 02/2022, Published by Springer Berlin Heidelberg. (SCI)
  17. Vibhav Prakash Singh\*, Manish Gupta, and Kamlesh Kumar Gupta, "An efficient image encryption technique based on two-level security for internet of things", *Multimedia Tools and Applications*, pp.1-26, 02/2022, Published by Springer. (SCI, IF=2.7)
  18. Rahul Shrivastava, Vivek Tiwari, Swati Jain, Alok Kumar Singh Kushwaha, Vibhav Prakash Singh, "A role-entity based human activity recognition using inter-body features and temporal sequence memory", *IET Image Processing*, vol.16, Issue 11, pp.2911-2921, 03/2022, Published by Wiley. (SCI, IF=2.34)
  19. Kamalakant Laxman Bawankule, Rupesh Kumar Dewang, Anil Kumar Singh, "A classification framework for straggler mitigation and management in a heterogeneous Hadoop cluster: A state-of-art survey", *Journal of King Saud University-Computer and Information Sciences*, 03/2022, Published by Elsevier. (SCI, IF=8.839)
  20. Dinesh Singh, Ashish Kumar Maurya, Ranvijay, and Rama Shankar Yadav, "CRLMDA: CRL Minimization and Distribution Algorithm in Cluster-based VANETs", *International Journal of Communication Networks and Distributed Systems*, 03/2022, Published by Inderscience. (Scopus)
  21. Dinesh Singh, Ashish Kumar Maurya, Ranvijay, Rama Shankar Yadav, "CRLMDA: CRL Minimization and Distribution Algorithm in Cluster-based VANETs," *International Journal of Communication Networks and Distributed Systems*, Inderscience, vol.28, Issue 3, 03/2022, Published by Inderscience. (Scopus, IF=1.54)
  22. Dhruva Jyoti, Vibhav Prakash Singh, and Vinay Kumar, "Two way Threshold Based Intelligent Water Drops Feature Selection Algorithm for Accurate Detection of Breast Cancer", *Soft Computing*, vol.26, Issue 5, pp.2277-2305, 03/2022, Published by Springer. (SCI, IF=3.6)
  23. Bhaswati Barman, Rupesh Kumar Dewang, Arvind Mewada, "Facial recognition using grey wolf optimization", *Materials Today: Proceedings* 03/2022, Published by Elsevier. (Scopus)
- Publication in International Conferences**
1. Mohit Bansal, Aman Jaiswal, Mohd. Asif Ansari, Dinesh Kumar, "An Android-based Application for Computation Offloading in Mobile Cloud Computing", *ACM/CSI/IEEECS Research & Industry Symposium on IoT Cloud For Societal Applications (IoTCloud'21)*, IIIT Kottayam, pp. 157-162, 05/2021, Published by AIC-IIIT Kottayam.
  2. Alok Kumar, Lekhraj, Safalata Singh and Anoj Kumar, "Grey wolf optimizer and other metaheuristic optimization techniques with image processing as their applications: a review", *International Conference on Advances in Materials, Mechanics, Mechatronics and Manufacturing (IC4M 2021)*, Madhya Pradesh, India, 06/2021, Published by IOP Publishing Ltd.
  3. Nitish Gupta, Ashutosh Soni, Yogesh Kumar Gond, Dinesh Kumar, "An E-healthcare System using IoT and Edge Computing", *2<sup>nd</sup> International Conference on Machine Intelligence and Smart Systems (MISS-2K21)*,

- Gwalior, India, 2021, 07/2021, Published by Springer.
4. Amitesh Pandey, Divya Kumar and Manoj Wairiya, "Permissioned Blockchain Model to Strengthen Food Supply Chain during pandemic (Covid-19)", Proceedings of the International Conference on IoT Based Control Networks & Intelligent Systems - ICICNIS 2021, 05/2021, pp.12, 08/2021, Published by SSRN.
  5. Shrey Pandey, Yash Srivastava, Yukta Meena and Rupesh Kumar Dewang, "CLOTON: A GAN based approach for Clothing Try-On", 8th International Conference on Signal Processing and Integrated Networks (SPIN-2021), Amity University Noida, pp.595-601, 08/2021, Published by IEEE.
  6. Naval Kumar, Dinesh Kumar, Pragya Dwivedi, "Load Forecasting for EV Charging Stations Based on Artificial Neural Network and Long Short Term Memory", International Conference on Advanced Network Technologies and Intelligent Computing (ANTIC-2021), BHU, Varanasi, India, 12/2021, Published by Springer.
  7. Aman Verma and Vibhav Prakash Singh, "HSADML: Hyper-Sphere Angular Deep Metric based Learning for Brain Tumor Classification", 12<sup>th</sup>-ICVGIP Workshop on Medical Image Processing, IIT Ropar, pp.1-13, 12/2021, Published by Springer.
  8. Aditya Raven, Rupesh Kumar Dewang, Arvind Mewada, "A Machine Learning-Based Privacy-Preserving Model for COVID-19 Patient using Differential Privacy", 19<sup>th</sup> OITS International Conference on Information Technology (OCIT)-2021, KIIT Bhubaneswar, pp.90-95, 12/2021, Published by IEEE.
  9. Ashima Tyagi, Vibhav Prakash Singh, and M. M. Gore, "Improved Detection of Coronary Artery Disease Using DT-RFE Based Feature Selection & Ensemble Learning", International Conference on Advanced Network Technologies and Intelligent Computing, BHU Varanasi, pp. 425-440, 12/2021, Published by Springer.
  10. Saloni Juneja, Shubham Goyallal, Sonali Agarwal, Saransh Agrawal, Rohit Kumar, Dr Rupesh Dewang and Arvind Mewada, "Spam Review Detection using Okapi Relevance Method for Negative Reviews", 3<sup>rd</sup> International Conference on Data, Engineering and Applications 2021, RGPV Bhopal, 12/2021, Published by springer.
  11. Arpit Gupta, Anisha Kumari, Ritik Raj, Akanksha Gupta, Raj Nath Shah, Tanmay Jaiswal, Rupesh Kumar Dewang, Arvind Mewada, "Biased Online Media Analysis Using Machine Learning", 2nd International Conference On Computational Intelligence - ICCI 2021, IIIT Pune, 12/2021, Published by springer.
  12. Arpit Gupta, Anisha Kumari, Ritik Raj, Akanksha Gupta, Raj Nath Shah, Tanmay Jaiswal, Rupesh Kumar Dewang, Arvind Mewada, "AutIS: Artificial Intelligent Based Automated Interviewing System", 21<sup>st</sup> International Conference on Hybrid Intelligent Systems (HIS-2021), USA, 12/2021, Published by springer.
  13. Gaurav Baranwal, Dinesh Kumar, "PoSP: A Novel Proof of Service Placement in Blockchain-based Edge Computing", 20<sup>th</sup> International Conference on Pervasive Computing and Communications (PerCom 2022), Pisa, Italy (Virtual Mode), 02/2022, Published by IEEE.

#### 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 Journal of Supercomputing
2.	Dr. D. S. Kushawaha	IEEE Transaction on Systems, Man and Cybernetics, Part B Journal of Digital Content Technology and its Applications, AISS International Conference on Signal Processing and Integrated Networks (SPIN) Neural Networks



3. Dr. Dinesh Singh International Conference on Computing & Network Communications (CoCoNet)
4. Dr. Dushyant Kumar Singh International Journal of Computational Vision and Robotics  
International Journal of Computational Vision and Robotics  
2<sup>nd</sup> IEEE CGCVIS  
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 Computer Journal  
Sadhana-Journal of the Indian Academy of Sciences  
IEEE Access
6. Dr. Krishna Kumar Mishra IEEE Transaction on Cybernetics  
Applied Soft Computing  
Neural Computing and applications  
Applied Intelligence
7. Dr. Navjot Singh Pattern Recognition  
International Conference on Machine Intelligence and Signal Processing  
Current Bioinformatics  
2<sup>nd</sup> International Conference on Advanced Computing and Intelligent Engineering  
IEEE Access  
The Visual Computer  
4<sup>th</sup> International Conference on Signal and Image Processing  
IEEE Transactions on Cybernetics  
Multimedia Tools and Applications  
3<sup>rd</sup> International Conference on Next Generation Computing Technologies  
Journal of Experimental & Theoretical Artificial Intelligence  
IEEE International Conference on Advances in Computing, Communication and Automation  
The Visual Computer
8. Dr. R. S. Yadav IEEE Transactions on Parallel and Distributed Systems
9. Dr. Rupesh Kumar Dewang Advancement in Computer Engineering and Information Technology  
Artificial Intelligence Review  
Cloud and Fog Computing Platforms for Internet of Things Applications  
Computer Science and Information Technologies  
Conference on Information and Communication Technology  
Conference on Internet of Things and Embedded Intelligence  
Distributed and Parallel Databases  
Expert Systems With Applications  
IEEE Access  
International Conference on Artificial Intelligence and Sustainable Engineering  
International Conference on Computer, Communication and Computational Sciences  
International Conference on Data, Engineering & Applications 2021  
International Conference on Information Systems & Computer

		Networks (ISCON-2021)
		International Conference on VLSI, Communication and Signal Processing
		Internet of Things for Technology Development
		Knowledge Discovery from Data
		Machine Intelligence and Signal Processing (MISP)
		Mining Intelligence and Knowledge Exploration
		Mobile Ad Hoc and Sensor Systems (MASS)
		National Academy Science Letters
		National Conference on Communications
		International Conference on Communication Systems and Network Technologies
		Online Conference on Green Communication, Network & Systems
		Journal of Education and Learning (EduLearn)
		Second International Conference on Advanced Informatics for Computing Research
		Second International Conference on Smart Innovations in Communications and Computational Sciences
		Secure Cyber Computing and Communications
		The IEEE Conference on Information & Communication Technology
10.	Dr. Shailendra Shukla	PDGC
		Wireless Personal Networks
11.	Dr. Suneeta Agarwal	Neuro Computing
12.	Dr. Vibhav Prakash Singh	IEEE Transactions on Industrial Electronics
		IETE Journal of Research
		IEEE Intelligent System
		Sadhana
		IEEE Transactions on Neural Networks and Learning Systems
		CMBP
		Measurement
		International Journal of Imaging Systems and Technology
		IEEE Transactions on Computational Social Systems-Review
		IEEE Access
		Expert System with applications
		Computer Methods and Programs in Biomedicine
		Multimedia tools and applications

**Book(s)/Book(s) Chapter(s) Authored**

Sl.No.	Faculty Name	Book	Book Chapter	Publisher
1.	Vibhav Prakash Singh & A. K. Maurya	Machine Learning for Healthcare Applications	Role of Machine Learning and Texture Features for the Diagnosis of Laryngeal Cancer	Scrivener Publishing, John Wiley & Sons
2.	Vibhav Prakash Singh & A. K. Maurya	Machine Learning for Healthcare Applications	Role of Machine learning and Texture Features for the Diagnosis of Laryngeal Cancer	Wiley
3.	A. K. Maurya & Dinesh Singh	Internet of Things, an Indian Adaptation: Concepts & Applications	IoT Enabling Platforms	Wiley
4.	Imtiyaz Ahmad, Vibhav P. Singh & S. Agarwal		Deep learning & its Applications	NOVA Publisher USA

### Invited Lectures Delivered

1. Lecture delivered by Dr. Rupesh Kumar Dewang at one week online Faculty Development Program on “Data Analytics and Machine Learning Using Python” from 12<sup>th</sup>-16<sup>th</sup> July, 2021, AICTE Training and Learning (ATAL) Academy, Delhi, organized by School of Information Technology, RGPV, Bhopal MP. on 12/07/2021 entitled Review Spam Detection using Python.
2. Lecture delivered by Dr. Ashish Kumar Maurya at Five Day online workshop on Parallel and Distributed Computing, NIT Andhra Pradesh on 21/07/2021 entitled Task Scheduling in Distributed Computing.
3. Lecture delivered by Dr. Rupesh Kumar Dewang at Online International Conclave on “Emerging Trends in ICT” July, 30 – 31, 2021, Institute of Advance Computing, SAGE University Indore. M.P. on 30/07/2021 entitled Machine Learning over IoT Data.
4. Lecture delivered by Dr. Rupesh Kumar Dewang at FDP, Computer Science and Engineering Department of Rajkiya Engineering College Sonbhadra on 31/07/2021 entitled Current Trends in Cyber Crime and Cyber Forensic with a perspective of Covid-19 Pandemic.
5. Lecture delivered by Dr. Ashish Kumar Maurya at One-week Faculty Development Program on “AI & IOT Applications in Energy Sector, LNCT, Bhopal on 08/09/2021 entitled Artificial Intelligence in IoT Applications.
6. Lecture delivered by Dr. Dinesh Kumar at AICTE-ISTE sponsored FDP on “Recent Trends in Cloud Computing”, DRIEMS Autonomous Engineering College on 09/09/2021 entitled Resource Provisioning in Cloud Computing with Cloud Sim.
7. Lecture delivered by Dr. Dinesh Kumar at Online Faculty Development Programme on IOT and Cloud based Sensors and Networks”, Department of Electronics and Communication Engineering, Pranveer Singh Institute of Technology, Kanpur on 14/09/2021 entitled IoT, Fog/Edge And Cloud Computing: Potentials and Use Cases.
8. Lecture delivered by Dr. Dinesh Kumar at One Week Short Term Course on “Machine Learning and its Applications in IoT, Computer Vision and Cloud Computing (MICC-2021), MNNIT Allahabad, Prayagra on 23/09/2021 entitled Machine Learning for IoT-Fog-Cloud Systems: Applications and Challenges.
9. Lecture delivered by Dr. Dinesh Kumar at National Webinar on “Future Trends in Technology”, Department of Science, Bhopal School of Social Sciences (BSSS), Bhopal on 08/10/2021 entitled Future Trends in Technology.
10. Lecture delivered by Dr. Dinesh Kumar at Computer Science as an Integral Part of Modern Technology Development, Gaya College of Engineering, Gaya, Bihar on 18/12/2021 entitled Emerging Edge Technologies: Potentials and Use Cases.
11. Lecture delivered by Dr. Ashish Kumar Maurya at One-week Faculty Development Program on Information Security: Issues and Challenges (ISIC-2021), MNNIT Allahabad on 21/12/2021 entitled Security in Cloud Computing.
12. Lecture delivered by Dr. Ashish Kumar Maurya at One-week online Faculty Development Programme on Artificial Intelligence for IoT Services in Cloud: Techniques & Applications, NIT Jalandhar on 02/03/2022 entitled Utilizing AI and Cloud Computing in IoT Applications.

### Events Organized by Department

Sl. No.	Name	Title	From	To
1.	Faculty Development Program	Machine Learning and its Applications in IoT, Computer Vision and Cloud Computing (MICC-2021), CSED, MNNIT Allahabad	20/09/2021	24/09/2021
2.	Faculty Development Program	Information Security: Issues and Challenges (ISIC-2021), MNNIT Allahabad	18/12/2021	22/12/2021

**Research Projects Completed/Ongoing**

Sl. No.	Principal Investigator /Co investigator(s)	Project Title	Funding Agency	Amount (INR)	Duration
1.	Dr. Mayukh Sarkar (PI)	Design of optimal or near-optimal Quantum Circuit using Quantum Machine Learning	MeitY	Rs.23.30 Lakhs	Ongoing
2.	Dr. Mayank Pandey (Co-PI)	Startup Centre	Department of Science and Technology (DST) and Ministry of Human Resource Development Ministry of Education	Rs.1.5 Crore	Ongoing
3.	Dr. Shashank Srivastava (PI)	Intelligent detection and mitigation of DDoS attack in SDN	DST	Rs.25.00 Lakhs	Ongoing
4.	Dr. Vibhav Prakash Singh (Co-PI)	Content-Based Image Retrieval System Assisted by Mammogram Classification for the Diagnosis of Breast Cancer	MoE/NPIU	Rs.73.00 Lakhs	Ongoing
5.	Dr. Navjot Singh (Co-PI)	IoT based real time and effective traffic signal scheduling for smart city	DST	Rs.13.70 Lakhs	Ongoing
6.	Dr. R. S. Yadav (PI)	Information System Education and Awareness (ISEA)-II	Ministry of Communication & Information Technology, Department of Electronics & Information Technology HRD Division	Rs.43.45 Lakhs	Ongoing
7.	Dr. Anil Kumar Singh (Co-PI)	Information Security Education and Awareness [ISEA] Project (Phase II)	DeitY, MoE	Rs.36.06 Lakhs	Ongoing
8.	Dr. Navjot Singh (Co-PI)	Secret Sharing Scheme based technology for multimedia security over cloud	DST	Rs.15.14 Lakhs	Ongoing

**9.7 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 04/2021–03/2022:**

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.	Chandra Sekhar Nalamati	2015REE53	Multiple Active Bridges based Isolated Bidirectional DC-DC Converters for Energy Storage Applications	Dr. Rajesh Gupta
2.	Vipin Das P	2015REL12	Design and Development of PEM Fuel Cell-based Hybrid Power Systems	Dr. Asheesh K. Singh
3.	Dinesh Kumar Singh	2015REE54	Protection Schemes for Transmission and Distribution Systems with Distributed Generation	Dr. Asheesh K. Singh
4.	Maneesh Upadhyay	2015REE07	Characterization and Detection of Voltage Sag for Power Quality Analysis	Dr. Asheesh K. Singh
5.	Aradhna Patel	2016REE06	Cyber Physical Security in Smart Grid	Dr. Shubhi Purwar

**Publication in International Journals**

1. Singh, Pavan Kumar, Nitin Singh, and Richa Negi, "Short-Term wind power prediction using hybrid auto regressive integrated moving average model and dynamic particle swarm optimization", International Journal of Cognitive Informatics and Natural Intelligence (IJCINI), vol.15, Issue 2, pp.111-138, 04/2021, Published by IGI. (Scopus)
2. R. Jaiswal, Richa Negi and A. Agarwal, "A phase shifted modular multilevel converter with variable arm inductance", International Journal of Energy Technology and Policy, vol.17, Issue 2, pp.204-226, 04/2021, Published by Inderscience. (Scopus)
3. A Kumar, N. K. Choudhary and N Singh, "A Comparative Analysis for Optimal Placement and sizing of distributed generator in Grid Connected & Islanded Mode of Microgrid", International Journal of Power and Energy Conversion, vol.12, Issue 2, pp.137-152, 05/2021, Published by Inder science. (Scopus)
4. V. Das, P. Karuppanan, A. K. Singh, and P. Thakur, "Optimal Sizing and Control of Solar PV-PEMFC Hybrid Power Systems", International Journal of Mathematical, Engineering and Management Sciences, pp.1137–115, 06/2021, Published by Ram Arti Publishers, India. (SCI)
5. A. Raj, U. Gupta, P. Tiwari and A. K. Singh, "Market power analysis of the Indian power market", International Journal of Engineering, Science and Technology, vol.13, Issue 1, pp.39–47, 07/2021, Published by African Journals Online.
6. Suman M. & Venkatakirithiga M., "Decentralised Unintentional Islanding Identification for Converter Interfaced Multiple DGs", IEEE Transactions on Industrial Informatics, vol.17, Issue 7, pp.4512-4520, 07/2021, Published by IEEE. (SCI, IF = 11.64)

7. R. Jaiswal, A. Agarwal, R. Negi, A. Vikram, "Design and Development of Experimental Based Phase Modulated Model Predictive Control for Torque Ripple Reduction of MMC Fed BLDC Motor", *Journal of Engineering Research*, pp.70-78, 08/2021, (Scopus)
8. Manoj Kumar Senapati, S. Sarangi, "Secured zone 3 protection during load encroachment using synchrophasor data", *Sustainable Energy, Grids and Networks Sustainable Energy*, vol.27, pp.100522, 09/2021, Published by Elsevier. (SCI, IF = 5.51)
9. D. Guha, P. K. Roy and S. Banerjee, "Observer-Aided Resilient Hybrid Fractional-Order Controller for Frequency Regulation of Hybrid Power System", *International Transactions on Electrical Energy Systems*, Vol.31, Issue 9, 09/2021, Published by Wiley. (SCI, IF=1.692)
10. Kesava Rao, G., Gangwar, T. & S. Sarangi,, "Advanced Relaying for DG-Penetrated Distribution System", *Arabian Journal for Science and Engineering*, vol.46, Issue 10, pp.9649-9661, 10/2021, Published by Springer Berlin Heidelberg. (SCI, IF=2.61)
11. N. Rawat, P. Thakur and A. K. Singh, "A novel hybrid parameter estimation technique of solar PV", *International Journal of Energy Research*, vol. 46, Issue 4, pp.4919-493, 11/2021, Published by Wiley. (SCI, IF=4.672)
12. Kumar, Jayendra, Anshul Agarwal and Nitin Singh, "Multipurpose water storage tank based DC microgrid system for isolated communities", *Energy Storage*, 11/2021, (SCI)
13. A Uniyal, S. Sarangi, & M. S. Rawat, "Optimal Dump Load Allocations in High RBDG Penetrated Microgrid for Voltage and Frequency Regulation", *Arabian Journal for Science and Engineering*, vol.46, Issue 2, pp.1511-1528, 12/2021, Published by Springer Berlin Heidelberg. (SCI, IF=2.76)
14. V. Patel, D. Guha and S. Purwar, "Neural Network aided Fractional-Order Sliding Mode Controller for Frequency Regulation of Nonlinear Power Systems", *Computers and Electrical Engineering*, vol.96, Issue 107534, 12/2021, Published by Elsevier. (SCI, IF=3.818)
15. Ankit Uniyal, S. Sarangi, "Optimal network reconfiguration and DG allocation using adaptive Modified Whale Optimization Algorithm Considering Probabilistic Load Flow", *EPSR*, vol.192, pp.1-9, 12/2021, Published by Elsevier. (SCI, IF=3.818)
16. V. Patel, D. Guha and S. Purwar, "Neural Network aided Fractional-Order Sliding Mode Controller for Frequency Regulation of Nonlinear Power Systems", *Computers and Electrical Engineering*, vol.96, 12/2021, Published by Elsevier. (SCI)
17. S. Das, P. Thakur, A. K. Singh and S. N. Singh, "Optimal management of vehicle-to-grid and grid-to-vehicle strategies for load profile improvement in distribution system", *Journal of Energy Storage*, vol.49, Issue 1, pp.104068, 01/2022, Published by Elsevier. (SCI, IF = 8.907)
18. V. Patel, D. Guha and S. Purwar, "Frequency Regulation of Nonlinear Power Systems using Neural Network Observer-based Optimized Resilient Controller", *International Transactions on Electrical Energy Systems*, 01/2022, Published by Wiley. (SCI)
19. Tejavath Veendar, Deepak Kumar, "CBO-based PID-F controller for Load frequency control of SPV integrated thermal power system", *Materials Today: Proceedings*, vol.58, pp.593-599, 01/2022, Published by Elsevier. (Scopus)
20. D. Guha, P. K. Roy & S. Banerjee, "Performance evolution of different controllers for frequency regulation of a hybrid energy power system employing chaotic crow search algorithm", *ISA Transaction*, vol.120, pp.128-146, 01/2022, Published by Elsevier. (SCI, IF = 5.468)
21. Aradhna Patel and Shubhi Purwar, "Novel Resilient Compensator design for FDI attack mitigation on AGC System", *International Journal of Modelling and Simulation*, 01/2022, Published by Taylor Francis. (Scopus)
22. K. Agrawal, V. C. Pal, Richa Negi and V. Patel, "H<sub>∞</sub> stabilization of uncertain discrete time-delayed system with actuator saturation by using Wirtinger inequality", *International Journal of Automation and Control*, vol.1, 01/2022, (Scopus)



23. V. Patel, D. Guha and S. Purwar, "Optimized cascade fractional-order 3DOF-controller for frequency regulation of a hybrid power system using marine predators algorithm", *International Journal of Numerical Modelling: Electronic Networks, Devices And Fields*, 01/2022, Published by Wiley. (SCI)
24. Arindam Sanyal, Arup Kumar Goswami, Prashant Kumar Tiwari, "Risk and Cost Benchmarking of Solar Energy Technology Based on Celestial phenomenon for a Power Market Integration", *Sustainable Energy Technologies and Assessments*, vol.49, 02/2022, Published by Elsevier. (SCI, IF=7.8)
25. V. Patel, D. Guha and S. Purwar, "Disturbance Observer-based Higher-order Sliding Mode Controller for Frequency Regulation of Hybrid Power Systems", *Int. J. of Automation and Control*, 02/2022, Published by Inderscience. (Scopus)
26. S Gangolu, S. Sarangi, "A New Differential Current Protection Algorithm for Three-Terminal Line", *Arabian Journal for Science and Engineering*, pp.1-11, 02/2022, Published by Springer Berlin Heidelberg. (SCI, IF=2.86)
27. Rajesh Panda, Prashant Kumar Tiwari, "An Economic Risk based Optimal Bidding Strategy for Various Market Players Considering Optimal Wind Placements in Day-Ahead and Real-Time Competitive Power Market", *International Journal of Systems Assurance Engineering and Management*, vol.13, pp.347-362, 02/2022, Published by Springer. (Scopus, IF=1.721)
28. D. K. Singh, S. Sarangi, A. K. Singh, S. R. Mohanty, "Coordination of Dual-Setting Overcurrent and Distance Relays for Meshed Distribution Networks with Distributed Generations and Dynamic Voltage Restorer", *Smart Science*, vol.1, pp.1-11, 02/2022, Published by Taylor and Science. (Scopus, IF=2)
29. Hamid Imtiaz Toor, Muhammad Imran, Abdul Ghafoor, Deepak Kumar, Victor Sreeram, and Abdul Rauf, "Frequency Limited Model Reduction Techniques for Discrete-Time Systems", *IEEE Transactions on Circuits and Systems II: Express Briefs*, vol.67, Issue 2, pp.345-349, 02/2022, Published by IEEE. (SCI, IF=3.691)
30. R. Tiwari, R. K. Singh, N. K. Choudhary, "Coordination of dual setting overcurrent relays in microgrid with optimally determined relay characteristics for dual operating modes", *protection and control of modern power system*, Vol.7, Issue 1, pp.1-18, 02/2022, Published by Springer Open. (SCI, IF = 10.50)
31. R. Tiwari, R. K. Singh, and N. K. Choudhary, "Optimal Relay Coordination for DG-Based Power System Using Standard and user-Defined Relay Characteristics", *Int. j. eng. technol. innov*, vol.12, Issue 3, pp.207-224, 03/2022, Published by Taiwan Association of Engineering & Technology Innovation. (Scopus)
32. R. Tiwari, R. K. Singh, and N. K. Choudhary, "Coordination of dual setting overcurrent relays in microgrid with optimally determined relay characteristics for dual operating modes", *Protection and Control of Modern Power Systems*, vol.7, Issue 6, pp.01-18, 03/2022, Published by Springer. (SCI , IF = 10.5)
33. P. Niranjana, R. K. Singh, N. K. Choudhary, "Comparative Study of Relay Coordination in a Microgrid with the Determination of Common Optimal Setting Based on Different Objective Functions", *International Journal of Engineering and Technology*, vol.12, Issue 3, pp.260-273, 03/2022, Published by Taiwan Association of Engineering and Technology Innovation. (Scopus, IF=0.208)
34. D. K. Singh, S. Sarangi, A. K. Singh, and S. R. Mohanty, "Coordination of Dual-Setting Overcurrent and Distance Relays for Meshed Distribution Networks with Distributed Generations and Dynamic Voltage Restorer", *Smart Science*, 03/2022, Published by Taylor and Francis. (SCI, IF = 4.1)
35. P. Niranjana, R. K. Singh, and N. K. Choudhary, "Comparative Study of Relay Coordination in a Microgrid with the Determination of Common Optimal Settings Based on Different Objective Functions", *Int. J. Eng. technol. innov*, vol.12, Issue 3, pp.260-273, 03/2022, Published by Taiwan Association of Engineering and Technology Innovation. (Scopus)
36. R. Tiwari, R. K. Singh, N. K. Choudhary, "Optimal Relay Coordination for DG based power system using standard and user-defined

- relay characteristics", International Journal of Engineering and Technology Innovation, vol.12, Issue 3, pp.207-224, 03/2022, Published by Taiwan Association of Engineering and Technology Innovation. (Scopus, IF=0.208)
37. M.Venkatesh Naik, "A Review on Charging Infrastructure for Electric Transit Buses", Majlesi Journal of Electrical Engineering, vol.16, Issue 1, pp.19-31, 03/2022, Published by Scientific Information Database. (SCI, IF=0.68)
- Publication in International Conferences**
1. M. Venkatesh Naik, P. Samuel, "Modelling and Analysis of a Magnetically Coupled Multi Device Buck Boost Converter for Fuel Cells", IEEE International Conference for Intelligent Technologies-CONIT 2021, Bengaluru, India, 06/2021, Published by IEEE.
  2. D. Guha, P.K. Roy, and S. Banerjee, "Fractional-order Sliding Mode Controller applied for load frequency control of power system", International Conference on Computing, Power, and Communication Technologies (GUCON 2021), Kuala Lumpur, Malaysia, 09/2021, Published by IEEE.
  3. B. N. Kar, P. Samuel and A. Naik, "Solar PV Array Fed Fuzzy Logic Controlled PMSM Drive for Water Pumping System", 2021 International Conference in Advances in Power, Signal, and Information Technology (APSIT), Bhubaneswar, India, pp.1-5, 10/2021, Published by IEEE.
  4. Gunupuru G. Rao and Rajesh Gupta, "Standalone PV based Boost Derived Hybrid Converter for EV Charging Applications", 47th Annual Conf. of IEEE Ind. Electronics (IECON 2021), Canada, pp.6, 10/2021, Published by IEEE.
  5. Vishal Jain and Rajesh Gupta, "Digitization Effect in Implementation of Hybrid Modulation Technique in CHBMLI", 47th Annual Conf. of IEEE Ind. Electronics (IECON 2021), Canada, pp.6, 10/2021, Published by IEEE.
  6. Arindam Sanyal, C. Behera, Arup Kumar Goswami and Prashant Kumar Tiwari, "Impact of Voltage Sag on Market Operation in Electrical Power System", IEEE Industry Applications Society Annual Meeting (IAS), USA, 10/2021, Published by IEEE.
  7. Zubaida F. Khan and Rajesh Gupta, "Standalone Wind Energy Conversion System for EV Battery Charging and AC Residential Loads", 47th Annual Conf. of IEEE Ind. Electronics (IECON 2021), Canada, pp.6, 10/2021, Published by IEEE.
  8. Zubaida F. Khan and Rajesh Gupta, "Wind Energy based EV Charging Station along with Power Quality Enhancement", 47th Annual Conf. of IEEE Ind. Electronics (IECON 2021), Canada, pp.6, 10/2021, Published by IEEE.
  9. H. Garg, A. Srivastava, D. Guha, "Frequency Regulation of Isolated Microgrid using Disturbance Observer-based robust Controller", 8th IEEE Uttar Pradesh Section Int. Conf on Electrical, Electronics, & Computer Engineering (UPCON 2021), Tula's Institute, Dhoolkot, Dehradun, Uttarakhand, 11/2021, Published by IEEE.
  10. Tejavath Veerendar, Deepak Kumar, Victor Sreeram, "Colliding Bodies Optimization-based PID Controller for Load Frequency Control of single area power system", 2021 Australian & New Zealand Control Conference (ANZCC), Gold Coast, Australia, pp.185-188, 11/2021, Published by IEEE.
  11. B. N. Kar, P. Samuel and B. M. Reddy, "Boost Converter Control for Maximum Power Tracking of PV System using Brain Emotional Learning-Based Intelligent Controller", International Conference on Data Science and Applications, Kolkata, India, pp.827-840, 11/2021, Published by Springer.
  12. V. Patel, D. Guha, S. Purwar, "Fractional-order Adaptive Sliding Mode Approach for Frequency Regulation in Power System", 9th International Conference on Power System (ICPS) 2021, Indian Institute of Technology Kharagpur, West Bengal, 12/2021, Published by IEEE.
  13. S. Ghosh, A. K. Singh, A. K. Paul and S. N. Singh, "Disturbance Observer-based Sliding Mode Control of PV-Battery Assisted EV Charging Station", 2021 IEEE 8th Uttar Pradesh Section International Conference on Electrical,

- Electronics & Computer Engineering (UPCON), Dehradun, pp.1-6, 01/2022, Published by IEEE.
14. I. P. Bharti, N. K. Singh, O. H. Gupta and A. K. Singh, "Developments in Islanding Detection and Its Comparison: A Comprehensive Review", 2021 IEEE 8<sup>th</sup> Uttar Pradesh Section International Conference on Electrical, Electronics & Computer Engineering (UPCON), Dehradun, pp.1-6, 01/2022, Published by IEEE.
  15. Arindam Sanyal, Arup Kumar Goswami and Prashant Kumar Tiwari, "A Neural Network Approach For Evaluating Levelized Cost Of Electricity For Generating Electricity Across Various Generation Technologies", 2022 IEEE International Conference on Power Electronics, Smart Grid, and Renewable Energy (PESGRE), Trivandrum, India, 01/2022, Published by IEEE.
  16. Furquan Nadeem, Arup Kumar Goswami and Prashant Kumar Tiwari, "Security Constrained two Stage Scheduling of Virtual Power Plant under Distributed Locational Marginal Prices", 2022 IEEE International Conference on Power Electronics, Smart Grid, and Renewable Energy (PESGRE), Trivandrum, India, 01/2022, Published by IEEE.
  17. P. Ahmad and N. Singh, "Electrical Vehicle Charger With Voltage-Based Controller", 2nd International Conference on Power Electronics & IoT Applications in Renewable Energy and its Control (PARC, 2022, pp.1-6, 02/2022, Published by IEEE.
  18. J. Kumar, A. K. Jaiswal, A. Agarwal and N. Singh, "Power Quality Improvement of a Grid Connected Wind Energy Conversion System Using Fuzzy Logic Controlled STATCOM", 2nd International Conference on Power Electronics & IoT Applications in Renewable Energy and its Control (PARC), 02/2022, Published by IEEE.
  19. A. Verma, D. Guha, "Fractional-order Robust Controller Applied to Nonlinear Dynamical System", IEEE 2nd Int Conf on Power, Control and Computing Technologies, NIT Raipur, 03/2022, Published by IEEE.

#### Publication in National Conferences

1. Tanya Pangtey, M. Venkatesh Naik, "Control and Analysis of SEPIC Topology based Boost DC-DC Converter with High Gain for Fuel Cell Fed Electric Vehicle Driving System", IEEE Students Conference on Engineering and Systems (SCES), Prayagraj, India, 07/2021, Published by IEEE.

#### Patents

1. Patent No.202111046806, Entitled a Portable Photovoltaics Powered Standalone Hybrid Power Supply System With Multi-Port Connectivity, Applied on 13/10/2021. The details are follows<Inventors: Rajesh Gupta, Ajeet Kumar Bhardwaj, Anil Kumar, Aman Kumar, 5. Date of Publication: 29/10.
2. Patent No.202111046806, Entitled a portable photovoltaics powered standalone hybrid power supply system with multi-port connectivity, Applied on 13/10/2021.
3. Patent No.390197, Entitled a Novel Hybrid Detection Technique to Detect Unintentional Island Formation in Micro-grids, Granted on 24/02/2022.
4. Patent No.112045, Entitled Pipe Inspecting Robot, Granted on 25/02/2022. The details are follows<Certified that the design of which a copy is annexed hereto has been registered as of the number.

#### Reviewer in International Journals and Conferences

Sl. No.	Faculty Name	Journal Name
1.	Dr. Asheesh Kumar Singh	International Journal of Electrical Power & Energy Systems ISA Transactions Journal of Engineering IEEE Transaction on Power Delivery ETRI Journal Automatic Control and Dynamical Optimization Society 2022 2022 IEEE/AIAA Transportation Electrification Conference and Electric Aircraft Technologies Symposium (ITEC+EATS)

2. Dr. Deepak Kumar  
Biomass Conversion and Biorefinery  
Journal of Engineering Science and Technology  
7<sup>th</sup> International Conference on Advances in Control & Optimization of Dynamical Systems  
Ain Shams Engineering Journal  
Applied Mathematics and Computation  
Asian Journal of Control  
Computers and Electrical Engineering  
Electric Power Components and Systems  
IEEE Systems Journal  
IEEE Transactions on Circuits and Systems II: Express Briefs  
IET Control Theory & Applications  
IETE Journal of Research  
IMA Journal of Mathematical Control and Information  
Indian Control Conference  
International Journal of Numerical Modelling: Electronic Networks, Devices and Fields  
International Journal of Robust and Nonlinear Control  
Journal of Control, Automation and Electrical Systems  
Journal of the Franklin Institute  
Simulation: International Transactions of the Society for Modeling and Simulation  
Sustainable Energy Technologies and Assessments  
Transactions of the Institute of Measurement and Control
3. Dr. Dipayan Guha  
Computers and Electrical Engineering  
Energy Storage  
Energy Systems  
IEEE Transactions on Cybernetics  
International Journal of Automation and Control  
International Journal on Electric Power Systems Research  
Iranian Journal of Science and Technology, Transactions of Electrical Engineering  
ISA Transaction  
Journal of Renewable and Sustainable Energy  
Swarm and Evolutionary Computation
4. Dr. Nand Kishor  
IET Renewable Power Generation  
Applied Soft Computing, Elsevier Science  
IEEE Sensors Journal  
IEEE Transactions of Automatic Control  
IEEE Transactions on Energy Conversion  
IEEE Transactions on Industrial Applications  
IEEE Transactions on Industrial Electronics  
IEEE Transactions on Power System  
IEEE Transactions on Smart Grid  
IEEE Transactions on Sustainable Energy  
International Journal of Electrical Power & Energy Systems, Elsevier Science  
International Journal of Hydrogen Energy, Elsevier Science  
Journal of Solar Energy, Elsevier Science
5. Dr. Prashant Kumar Tiwari  
India Com – 2021

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|-----|---------------------------|--|
|     |                           | PIICON-2022  |
| 6.  | Prof. R. K. Singh         | National Power System Conference-2022<br>Power Electronics Specialist Conference<br>IEEE Energy Conversion Congress and Exposition, ECCE<br>IEEE Transactions on Nuclear Science<br>2022 IEEE Students Conference on Engineering and Systems (SCES)<br>Knowledge-Based Systems   |
| 7.  | Dr. Rajesh Gupta          | IEEE Transaction on Power Delivery<br>IET Generation Transmission and Distribution<br>IEEE Industrial Electronics Society Conferences<br>IEEE Transaction on Industry Application<br>IET Power Electronics<br>IEEE Transaction on Power Electronics<br>IECON 2021<br>IEEE Transaction on Industrial Electronics<br>IEEE Transactions on Energy Conversion<br>IETE Journal of Research  |
| 8.  | Dr. Saumendra Sarangi     | IEEE Systems Journal<br>IET Generation, Transmission and Distribution  |
| 9.  | Dr. Suman M.              | International Journal of electrical energy and power systems<br>Energy conversion and management<br>IEEE Transactions on Industry Applications<br>IEEE Systems Journal<br>IEEE Transactions on Power Electronics<br>IET Generation, Transmission and Distribution<br>Electric Power System Research<br>IEEE Transactions on Smart Grid<br>International Transactions on Electrical Energy Systems<br>Journal of Institution of Engineers(India) Series B |
| 10. | Dr. M. Venkatesh Naik     | Energy and Environment<br>IEEE Access<br>Renewable & Sustainable Energy Reviews<br>Journal of Power Electronics<br>7th International Conference on Electrical Engineering, Computer Science and Informatics (EECSI)<br>9 <sup>th</sup> IEEE PES Asia-pacific Power and Energy Engineering Conference Bangalore<br>Serbian Journal of Electrical Engineering<br>2 <sup>nd</sup> Electric Power and Renewable Energy Conference (EPREC-2021)               |
| 11. | Dr. Niraj Kumar Choudhary | Students Conference on Engineering & Systems<br>International Conference on Power, Control & Embedded Systems<br>National Power Systems Conference<br>Indian Journal of Science & Technology<br>International journal of emerging electric power systems<br>IEEE Systems Journal<br>SCES-2022<br>UPCON-2022  |
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**Book(s)/Book(s) Chapter(s) Authored**

SI.No.	Faculty Name	Book	Book Chapter	Publisher
1.	V. Soni, N. Singh,	Fundamentals and Innovations in Solar Energy	10	Energy Systems in Electrical Engg. Springer, Singapore
2.	V. Patel, D. Guha, and S. Purwar,	Control of Standalone Microgrid	Minimum order disturbance observer-aided integral sliding mode controller for frequency regulation of hybrid power system	Academic Press (Elsevier)
3.	Vipin Das P, N. K. Singh, Rakesh Maurya, A. K. Singh & N. Singh	Fundamentals and Innovations in Solar Energy	Advances in Hybrid Solar System	Springer Singapore
4.	Chandra Sekar S., Asheesh K. Singh, Sri Niwas Singh, and V. G. Agelidis	Emerging Power Converters for Renewable Energy and Electric Vehicles Modeling, Design, and Control	Front-End Power Converter Topologies for Plug-in Electric Vehicles	CRC Press (Taylor & Francis)
5.	S. Ghosh, A. K. Singh, R. Maurya, Sri Niwas Singh, and V. G. Agelidis	Cable Based and Wireless Charging Systems for Electric Vehicles: Technology & control, management and integration	Charging stations and standard	IET Digital Library (IET, UK)
6.	Suman M, S. Srividhya and P. Padmagirisan	Integration of Renewable Energy Sources with Smart Grid	Microgrid Protection	Wiley Publication
7.	P.Dwivedi, P. Verma, Kiran Kumar Gullipilli, M. Venkatesh Naik	Impact of Electric Vehicle Charging on Grid & Distribution Networks		Lambert Academic Publishing, International book market service Ltd
8.	P. Singh, N. Singh, N. K. Choudhary	Advances in VLSI, Communication, and Signal Processing	Fault Detection and Classification in Microgrid using Wavelet Transform and Artificial Neural Network	Springer Singapore
9.	Seema Pal, N. Singh and N. K. Choudhary	Machine Learning, Advances in Computing, Renewable Energy and Communication	Correlation Based Short Term Electric Demand Forecasting using ANFIS Model	Springer Singapore
10.	V. Patel, D. Guha, and S. Purwar,	Microgrids: Modeling, Control, and Applications	Disturbance observer-aided adaptive sliding mode controller for frequency regulation in hybrid power system	Academic Press, Elsevier
11.	D. Guha, P. K. Roy, S. Banerjee, S. Purwar	Application of Intelligent Control Algorithms to Study the Dynamics of Hybrid Power System		Springer

**Invited Lectures Delivered**

- Lecture are delivered by Dr. Asheesh Kumar Singh at International Conference on Modern Approaches in Engineering, Science and

Management (MAESM-2021), Bansal Institute of Engineering & Technology, Lucknow on 16/04/2021 entitled Keynote lecture on "Artificial intelligence: A Modern Approach".



2. Lecture are delivered by Dr. Asheesh Kumar Singh at PES Day 2021 (Theme: Clean Energy Revolution), IEEE Student Branch (SB), Gayatri Vidya Parishad College of Engineering, Madhurawada, Visakhapatnam, A.P., India on 22/04/2021 entitled Microgrid & its Applications.
3. Lecture are delivered by Dr. Suman M. at Faculty Development Programme, EEED, NIT Trichy on 26/05/2021 entitled Technologies for Smart Electrical Power Grid.
4. Lecture are delivered by Dr. Nitin Singh at ATAL-AICTE sponsored FDP, KNIT Sultanpur (UP) on 14/06/2021 entitled Artificial intelligence and Green Power Technology (AIGPT).
5. Lecture are delivered by Dr. Asheesh Kumar Singh at Online FDP under ATAL Academy on "Artificial Intelligence and Green Power Technology (AIGPT)", KNIT Sultanpur (U.P.) on 14/06/2021 entitled Introduction to AI Techniques.
6. Lecture are delivered by Mr. Nitin Singh at Five Day Faculty Development Program, NIT Patna, Patna, Bihar on 29/06/2021 entitled Soft Computing Techniques and Their Applications in Electrical Engineering.
7. Lecture are delivered by Dr. Asheesh Kumar Singh at Online FDP under ATAL Academy on "Microgrid an Opportunity: Electric Vehicles and Renewable Energy Resources", Dayalbagh Educational Institute (Deemed to be University), Agra, India on 05/07/2021 entitled Emerging Trends in Microgrid.
8. Lecture are delivered by Dr. Asheesh Kumar Singh at Online Faculty Development Program on "Artificial Intelligence", Electrical Engineering Department, Bansal Institute of Engineering and Technology, Lucknow (UP) India on 19/07/2021 entitled Artificial Intelligence: an Overview.
9. Lecture are delivered by Dr. Prashant Kumar Tiwari at AICTE Training and Learning (ATAL) Sponsored One Week Online Faculty Development Program on "Green Technology for Sustainable Life: Indian Perspective", EED, NIT Silchar on 20/07/2021 entitled Wind Energy in the Context of Current Electricity Markets.
10. Lecture are delivered by Mr. Nitin Singh at One Week Faculty Development Program, EED, RKGIT, Ghaziabad, U.P. on 06/09/2021 entitled Artificial Intelligence for Power System Planning.
11. Lecture are delivered by Dr. Rajesh Gupta at FDP on "Energy Management & Planning in Smart Cities for Sustainable Development (EMPSSD-2021)" Sponsored by AICTE Training and Learning (ATAL) Academy from September 20-24, 2021, REC Sonbhadra on 22/09/2021 entitled Role of Energy Storage in Smart Cities.
12. Lecture are delivered by Dr. Rajesh Gupta at Malviya Day, MMMUT Gorakhpur on 01/12/2021 entitled Future prospects of Renewable Energy and Storage in Indian Context.
13. Lecture are delivered by Dr. Prashant Kumar Tiwari at 3<sup>rd</sup> One Week Self Financed Short-term course on "Advances in Power Technologies (APT-2021)", EED, MNNIT Allahabad on 23/12/2021 entitled "Introduction to Competitive Electricity Markets".
14. Lecture are delivered by Dr. Rajesh Gupta at 2<sup>nd</sup> International Conference on Power Electronics & IoT Applications in Renewable Energy and its Control (PARC) in a hybrid mode which is scheduled on 21st-22nd Jan 2022, GLA Mathura on 22/01/2022 entitled Future mix of Renewable Energy and Storage for Power Flow Control.
15. Lecture are delivered by Dr. Prashant Kumar Tiwari at 5 Day Faculty Development Program on "Computational Intelligence in Control, Power and Instrumentation (CICPI)", EEED, Institute of Engineering and Management (IEM), Kolkata on 01/02/2022 entitled Introduction to Electricity Markets.
16. Lecture are delivered by Dr. Rajesh Gupta at ATAL FDP at Govt. Engineering College Bharuch, GEC Bharuch on 28/02/2022 entitled DC/AC Microgrid for low power distribution system.
17. Lecture are delivered by Dr. Prashant Kumar Tiwari at 5 days Short Term Course on Stability Issues, Challenges and Solutions in Renewable Integrated Power Systems, NIT Uttarakhand on 01/03/2022 entitled Indian Electricity Markets: Prospects & Challenges.
18. Lecture are delivered by Dr. Prashant Kumar Tiwari at 5 days AICTE-ATAL-sponsored Online Faculty Development Programme on "Smart

- Cities for Sustainable Development”, EED, MNNIT Allahabad on 07/03/2022 entitled Smart Cities and its Components.
19. Lecture are delivered by Dr. Niraj Kumar Choudhary at ATAL-sponsored online Faculty Development Programme on “Smart Cities for Sustainable Development” (SCSD-2022), EED, MNNIT Allahabad on 10/03/2022 entitled Technology Transfer from Smart city to Smart Village: Broad perspective.
20. Lecture are delivered by Dr. Deepak Kumar at AICTE Training And Learning (ATAL) sponsored one week online Faculty Development Program on “Smart Cities for Sustainable Development”, EED, MNNIT Allahabad on 10/03/2022 entitled Smart City and its Components.

#### Expert/Invited Lectures Organized

1. A lecture is delivered by Vassilios G. Agelidis, Professor, DTU, Denmark on 20/11/2021 entitled Unpacking E-Mobility Technologies for India.

#### Events Organized by Department

Sl. No.	Name	Title	From	To
1.	Industrial Visit	Industrial Visit of PG Students to MUNPL, Meja, Prayagraj	27.11.2021	
2.	Industrial Visit	Industrial Visit of PG Students to PPGCL, Bara, Prayagraj	13.11.2021	
3.	International Conference	The International Conference on Advances in Management and Technological Innovations Impacting Industries-III (ICAMT III), MNNIT Allahabad	20.04.2021	21.04.2021
4.	Faculty Development Program	Modeling and Simulation of Dynamical Systems (MSDS), EED, MNNIT Allahabad	06.09.2021	10.09.2021
5.	Workshop	One-Week Short Term Course [online] on "Modelling and Simulations of Dynamical Systems (MSDS 2021)", MNNIT Allahabad	27.09.2021	01.10.2021
6.	International conference	Special Session on Advances in Electric Vehicle Charging and Next Generation Wireless Technology at Canada (online)	13.10.2021	16.10.2021
7.	Short Term Course	Unpacking E-Mobility Technologies for India, MNNIT Allahabad	20.11.2021	24.11.2021
8.	International conference	9 <sup>th</sup> IEEE Uttar Pradesh Conference (UPCON-2022), IIIT Allahabad	02.12.2021	04.12.2021
9.	Short term Course	3 <sup>rd</sup> One Week Self-Financed Short Term Course on “Advances in Power Technologies (APT-2021)”, MNNIT Allahabad	20.12.2021	24.12.2021
10.	International Conference	2 <sup>nd</sup> IEEE International Conference on Power Electronics & IoT Applications in Renewable Energy and its Control (PARC-2022), GLA University, Mathura, U.P	21.01.2022	22.01.2022
11.	International Conference	7 <sup>th</sup> IEEE Students’ Conference on Engineering and Systems (SCES-2022), MNNIT Allahabad	01.03.2022	03.03.2022
12.	Workshop	One-Week Online Workshop on "Intelligent Control and Protection Techniques for Hybrid Microgrid (ICPT-2022)", MNNIT Allahabad	05.03.2022	09.03.2022
13.	Faculty Development Program	Five days AICTE-ATAL-Sponsored Online Faculty Development Programme on “Smart Cities for Sustainable Development”, EED, MNNIT Allahabad	07.03.2022	11.03.2022

#### Events Attended

1. Dr. Prashant Kumar Tiwari attended International conference on 2<sup>nd</sup> Electric Power and Renewable Energy Conference (EPREC-2021) at NIT Jamshedpur during 28/05/2021 to 30/05/2021.

2. Dr. M. Venkatesh Naik attended International Conference on Intelligent Technologies (CONIT 2021) at Bangalore, India during 25/06/2021 to 27/06/2021.
3. Dr. Rajesh Gupta attended International Conference on 47<sup>th</sup> Annual Conf. of IEEE Ind. Electronics (IECON 2021) at Canada (online) during 13/10/2021 to 16/10/2021.
4. Dr. Prashant Kumar Tiwari attended Short Term Course on Unpacking E-Mobility Technologies for India at MNNIT Allahabad during 20/11/2021 to 24/11/2021.
5. Dr. Prashant Kumar Tiwari attended Short Term Course on 3<sup>rd</sup> One Week Self Financed Short Term Course on "Advances in Power Technologies (APT-2021) at MNNIT Allahabad during 20/12/2021 to 24/12/2021.
6. Dr. Asheesh Kumar Singh attended GIAN Course on Designing Money in Connected World – Digital Currency and Payments Systems at Online during 17/01/2022 to 21/01/2022.
7. Dr. Prashant Kumar Tiwari attended Faculty Development Program on 5 days AICTE-ATAL-Sponsored Online Faculty Development Programme on "Smart Cities for Sustainable Development" at MNNIT Allahabad during 07/03/2022 to 11/03/2022.
8. Dr. Asheesh Kumar Singh attended GIAN course on Blockchain for Business at Online during 26/03/2022 to 31/03/2022.

### Research Projects Completed/Ongoing

Sl. No.	Principal Investigator /Co investigator(s)	Project Title	Funding Agency	Amount (INR)	Duration
1.	Dr. Prashant Kumar Tiwari (PI)	Development of Electric Vehicle Charging Infrastructure for Building Micro-Grids Containing Renewables for Smart City Applications	Council of Science & Technology (CST) U.P.	Rs.10.92 Lakhs	Ongoing
2.	Dr. Asheesh K. Singh (PI)	Implementation of fast charging/discharging PHEVs integrated with modern UPS for peak demand reduction in distributed system	CSIR	Rs.29.253 Lakhs	Ongoing
	Dr. Asheesh K. Singh (PI)	E-Mobility: An Electricity Grid Perspective	SPARC, under Govt. of India	Rs. 63.38 Lakhs	Ongoing
	Dr. Richa Negi (PI)	Integrated Renewable Resources and Storage: Operation and Management [IReSOpm]	DST-RCN Call on Energy Research-2018 (Indo-Norway Joint Proposal Call)	Rs.46.52 Lakhs	Ongoing
	Dr. Asheesh K. Singh (PI)	E-Mobility: An Electricity Grid Perspective	SPARC	Rs.63.38 Lakhs	Ongoing
	Dr. Asheesh K. Singh (Co-PI)	Developing a Model for Effective Adoption of Solar Energy System in India	ICSSR	Rs.12.00 Lakhs	Ongoing
	Dr. Deepak Kumar (PI)	Design of two-dimensional digital filters using finite-frequency reduced-order modelling	Science & Engg. Research Board (SERB)	Rs. 6.60 Lakhs	Ongoing
	Dr. Suman M. (PI)	Development of Unintentional Islanding Protection Scheme with Low Voltage & Frequency Ride Through Capability	Science & Engg. Research Board, New Delhi	Rs.32.33 Lakhs	Ongoing
	Dr. Rajesh Gupta (PI)	Solar PV Supported Reconfigurable EV Charger with	NaMPET-III, MeitY	Rs.30.70 Lakhs	Ongoing

Dr. Saumendra Sarangi (PI)	Reduced Switching Devices Development of novel protection Schemes for HYBRID Microgrid	SERB India	Rs.27.48 Lakhs	Ongoing
Dr. Prashant Kumar Tiwari (Co-PI)	Development of Smart Power System Laboratory with Renewables	DST, FIST, New Delhi	Rs.1.41 Corer	Ongoing
Dr. Asheesh K. Singh (Co-PI)	Integrated Renewable Resources and Storage: Operation and Management [IReSOpm]	DST-RCN Call on Energy Research-2018	Rs.46.52 Lakhs	Ongoing
Dr. Shubhi Purwar (Co-PI)	Study on Cyber-physical Approach for Electric Power Grid	SERB	Rs.	Ongoing
Dr. Asheesh K. Singh (Co-PI)	Developing a Model for Effective Adoption of Solar Energy System in India	ICSSR	Rs. 12.00 Lakhs	Ongoing
Dr. Asheesh K. Singh (PI)	Implementation of fast charging/ discharging PHEVs integrated with modern UPS for peak demand reduction in distribution system	Council of Scientific & Industrial Research (CSIR), Govt. of India	Rs. 29.25 Lakhs	Ongoing
Dr. Rajesh Gupta (PI)	To strengthen the research facility in the department	DST-FIST	Rs.141 Lakhs	Ongoing
Dr. Suman M. (Co-PI)	Development of Smart Power System Laboratory with Renewables,	Dept. of Science and Technology	Rs.141 Lakhs	Ongoing

#### Other Relevant Information

1. Dr. Rajesh Gupta received Appointed as Associate Editor of IEEE Transactions on Energy Conversion and IEEE Power Engineering Letters on 07/2021.
2. Dr. Rajesh Gupta received Listed in top 2% Scientist in the World under the category, Electrical & Electronics, by Stanford University, 2021 on 10/2021.
3. Dr. Deepak Kumar received Best Paper Award by International Journal of Modelling and Simulation of Year 2021 for paper: Sonker, B., Kumar, D. and Samuel, P., 2019. Design of two degree of freedom-internal model control configuration for load frequency control using model approximation. International Journal of Modelling and Simulation, 39(1), pp.27-37. on 12/2021.
4. Dr. Suman M. received The IET Generation, Transmission & Distribution Premium Award (Best Paper Award 2021), for the paper titled, Band pass filter and AFVmean-based unintentional islanding detection, Volume 13, Issue 9, May 2019, pp. 1489-1498 on 03/2022.

#### 9.8 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 & 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 & technologies essential

to the local and global needs in the field of Electronics & Communication Engineering.

**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 04/2021 - 03/2022:**

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.	Dr. Ankita Srivastava	2017REL08	Location Based Routing Optimization Schemes for Multichannel Urban VANET	Dr. Arun Prakash
2.	Mr. Pritam Keshari Sahoo	2016REL11	Hybrid Modulation Techniques Under Diverse Turbulence Conditions of Outdoor and Indoor FSO Channel	Dr. Yogendra Kumar Prajapati
3.	Prateek Kishor Verma	2015REL13	Design, Modeling and Analysis of Charge Plasma based Junctionless Transistors	Dr. Santosh Kumar Gupta
4.	Ms. Richa Singh	2017REL01	Fabrication and Characterization of Thin Film Mos2 Based Photodetectors	Dr. ShwetaTripathi
5.	Prateek Raj Gautam	2016 REL01	Energy Efficient 2D and 3D Localization in WSNs using Single Anchor Node	Dr. Arvind Kumar
6.	Akash Srivastava	2018REL08	Sensing Performance Enhancement in SPR Based Sensor using two Dimensional and Related Nanomaterials	Dr. Yogendra Kumar Prajapati

**Publication in International Journals**

1. J. Rout and H. Kar, "New ISS Result for Lipschitz Nonlinear Interfered Digital Filters Under Various Concatenations of Quantization and Overflow.", *Circuits, Systems, and Signal Processing*, vol.40, Issue 4, pp.1852–186, 04/2021, Published by Springer. (SCI, IF=1.681)
2. Anuj K. Sharma, Baljinder Kaur; Y. K. Prajapati, "Plasmonic sensor for magnetic field detection with chalcogenide glass and ferrofluid materials under thermal variation in near infrared", *Optical Materials*, vol.117, pp.111175, 05/2021, Published by Elsevier. (SCI, IF=3.08)
3. Prateek Kishor Verma & Santosh Kumar Gupta, "An Improved Analog/ RF and Linearity Performances with Small-Signal Parameter Extraction of Virtually Doped Recessed Source/Drain Dopingless Junctionless Transistor for Radio-Frequency Applications", *Silicon*, vol.13, Issue 5, pp.1519–153, 05/2021, Published by Springer. (SCI, IF=1.210)
4. Rajeev Kumar, Sarika Pal, Narendra Pal, Alka Verma, J. P. Saini & Yogendra Kumar Prajapati, "Figure of merit enhancement of Ti3C2Tx Graphene-based Long-range surface plasmon sensor at Telecommunication wavelength", *Optical and Quantum Electronics*, vol.53,



- pp.218, 05/2021, Published by Springer publication. (SCI, IF=2.084)
5. Surjeet Raikwar, Yogendra Kumar Prajapati\*, D. K. Srivastava, J. B. Maurya & J. P. Saini, "Graphene-based Surface Plasmon Resonance Sensor for Examination of Rodent Urine," *Photonic Sensors*, vol.11, pp.305-313, 05/2021, Published by Springer. (SCI, IF=2.072)
  6. Mamidi Nagaraju, Santosh Kumar Gupta, Vijaya Bhadauria, "Design and Implementation of Parallel bypass Bin Processing for Cabac Encoder", *Advances in Electrical and Electronic Engineering*, 06/2021, Published by VSB - Technical University of Ostrava and University of Zilina Faculty of Electrical Engineering. (Scopus)
  7. Shivam Singh, Y. K. Prajapati, "Highly Sensitive Dual-Core Symmetrical Side-Polished Modified D-shaped SPR Based PCF Refractive Index Sensor with Deeply Etched Micro Openings", *Optik*, vol.235, pp.166657, 06/2021, Published by Elsevier. (SCI, IF=2.443)
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  9. Maneesh Kumar Singh, Sarika Pal, Alka Verma, Vimal Mishra, Yogendra Kumar Prajapati, "Sensitivity enhancement using anisotropic black phosphorus and antimonene in bi-metal layer-based surface plasmon resonance biosensor", *Superlattices and Microstructures*, vol.156, pp. 106969, 06/2021, Published by Elsevier. (SCI, IF =2.658)
  10. Jahnvi Tiwari, Arun Prakash and Rajeev Tripathi, "A Novel Cooperative MAC Protocol for Safety Applications in Cognitive Radio Enabled Vehicular Adhoc Networks", *Vehicular Communications*, vol.29, 06/2021, Published by Elsevier. (SCI, IF=4.706)
  11. A. Srivastava, R. Singh, S. Jit and S. Tripathi, "Pentacene and CuO Nanocomposite Based Self-Powered Broadband Photodetector", *IEEE Electron Device Letters*, vol.42, Issue 6, pp.875-878, 07/2021, Published by IEEE. (SCI, IF= 4.816)
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  14. Artika Srivastava, Anuj K. Sharma, Yogendra Kumar Prajapati, "On the sensitivity-enhancement in plasmonic biosensor with photonic spin Hall effect at visible wavelength", *Chemical Physics Letters*, vol.774, pp.138613, 07/2021, Published by Elsevier. (SCI, IF=2.328)
  15. Abhishek Kumar, Santosh Kumar Gupta, Vijaya Bhadauria, "Low-power and low glitch area current steering DAC", *Engineering Science and Technology an International Journal*, pp.https:// do, 07/2021, Published by Elsevier. (SCI, IF= 4.36)
  16. Dheeraj Dubey, Rajeev Tripathi and Yogendra Kumar Prajapati, "Hybrid- Subcarrier Intensity Modulation Topology Optimization with Pointing Errors over Gamma-Gamma Fading Free-Space Optical Link", *Optical Engineering*, vol.60, Issue 8, pp.086106, 08/2021, Published by SPIE. (SCI, IF=1.35)
  17. V. A. Popescu, Y. K. Prajapati, Anuj K. Sharma, "Highly Sensitive Magnetic Field Detection in Infrared Region with Photonic Spin Hall Effect in Silicon Waveguide Plasmonic Sensor", *IEEE Transactions on Magnetics*, vol.57, Issue 10, pp.4002210, 08/2021, Published by IEEE. (SCI, IF=1.848)
  18. Alka Verma, Anuj Kr. Sharma, Y. K. Prajapati, "Simulation and Analysis of SPR-based Biosensor with Borophene and Antimonene Layers", *Optical Materials*, vol.119, pp.111355, 09/2021, Published by Elsevier. (SCI, IF=3.08)
  19. A. K. Dwivedi, T. Baliyan, & S. Tripathi, "Surface Potential Modeling of DG SOI MoS<sub>2</sub> FET (MFET) and Gate Misalignment Effect Analysis Therein", *Semiconductors*, vol.55, Issue 9,



- pp.717-725, 09/2021, Published by Springer. (SCI, IF=0.660)
20. Maneesh Kumar Singh, Sarika Pal, Alka Verma, Ritwick Das, Yogendra Kumar Prajapati, "A nanolayered structure for sensitive detection of Hemoglobin Concentration using Surface Plasmon Resonance", *Applied Physics A*, vol. 127, pp.832, 10/2021, Published by Springer. (SCI, IF=2.584)
  21. Yogendra Kumar Prajapati, J. B. Maurya, Anuj K. Sharma, "Tunable & enhanced performance of graphene-assisted plasmonic sensor with photonic spin Hall effect in near infrared: Analysis founded on graphene's chemical potential and components of light polarization", *Journal of Applied Physics-D*, vol.55, Issue 9, pp.095102, 11/2021, Published by IOP. (SCI, IF= 3.207)
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  23. A. Srivastava, S. Jit and S. Tripathi, "Pentacene and Er-Doped ZnO Nanocomposite Based UV-Visible-NIR Wideband Photodetector", *IEEE Photonics Technology Letters*, vol.33, Issue 21, pp.1193-1196, 11/2021, Published by IEEE Photonics Society. (SCI, IF=2.414)
  24. Afreen Haque, Varun Mishra, Yogesh Kumar Verma, Santosh Kumar Gupta, "Investigation of Novel Low Bandgap Source Material for Heterodielectric GAA-TFET with Enhanced Performance", *Silicon*, 11/2021, Published by Springer. (SCI, IF=2.67)
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  26. A. Srivastava and S. Tripathi, "Robustness of Pentacene: MoS<sub>2</sub>: ZnO Ternary Blend for Optoelectronic Devices", *IEEE Transactions on Device and Materials Reliability*, vol.21, Issue 4, pp.528-535, 12/2021, Published by IEEE. (SCI, IF=1.886)
  27. R. Singh and S. Tripathi, "Low Intensity UV Light Detection by Al<sub>2</sub>O<sub>3</sub> Separated MoS<sub>2</sub>/CuO Junction", *IEEE Photonics Technology Letters*, vol.33, Issue 24, pp.1427-1430, 12/2021, Published by IEEE Photonics Society. (SCI, IF=2.414)
  28. A. Srivastava, S. Jit and S. Tripathi, "Er-Doped ZnO, CuO and Pentacene Based Broadband Photodetector With High External Quantum Efficiency", *IEEE Electron Device Letters*, vol.42, Issue 12, pp.1802-1805, 12/2021, Published by IEEE Inc.. (SCI, IF=4.816)
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  31. K. K. Kavi, S. Tripathi, R. A. Mishra and S. Kumar, "Design, Simulation, and Work Function Trade for DC and Analog/RF Performance Enhancement in Dual Material Hetero Dielectric Double Gate Tunnel FET", *Silicon*, pp.1-13, 02/2022, Published by Springer. (SCI, IF=2.941)
  32. Saumya Tripathi, A. Srivastava, A. Raman and S. Tripathi, "CuO/Pentacene Type-II Planar Heterojunction for UV-Vis-NIR Photodetection With High EQE", *IEEE Transactions on Electron Devices*, vol.69, Issue 2, pp.722-728, 02/2022, Published by IEEE Electron Devices Society. (SCI, IF=3.221)
  33. Maneesh Kumar Singh, Sarika Pal, and Yogendra Kumar Prajapati, "Design and Analysis of an SPR Sensor based on Antimonene and Platinum for the Detection of Formalin", *IEEE Transactions on Nano*

- Bioscience, vol.10, 03/2022, Published by IEEE. (SCI, IF=2.193)
34. Sushmita Jaiswal, Santosh Kumar Gupta, "Digital Performance Analysis of Double Gate MOSFET by Incorporating Core Insulator Architecture", Silicon, 03/2022, Published by Springer. (SCI, IF=1.210)
  35. A. Srivastava and S. Tripathi, "Spectral response optimization in Pentacene and cupric oxide-based photodetector using structural engineering :Planar and bulk heterostructure", Optical Materials, vol.126, pp.0925-3467, 03/2022, Published by Springer. (SCI, IF=3.08)
  36. Abhishek Kumar, Santosh Kumar Gupta, & Vijaya Bhadauria, "Design of IF-RF based heterodyne transmitter using current steering DAC with 5.4 GHz spur-free bandwidth", IETE Journal of Research (TIJR), 03/2022, Published by Taylor and Francis. (SCI, IF=2.333)
  37. Vipin Kumar Verma, Sarika Pal, Conrad Rizal, Yogendra Kumar Prajapati, "Tunable and Sensitive Detection of Cortisol using Anisotropic Phosphorene with a Surface Plasmon Resonance Technique: Numerical Investigation", Magnetochemistry, vol.8, Issue 3, pp.31, 03/2022, Published by MDPI. (SCI, IF=2.193)
  38. L. Agarwal, K. S. Rao, A. Srivastava, and S. Tripathi, "Ytterbium doped {ZnO} nanolaminated planar waveguide for ring resonator applications", Journal of Physics D: Applied Physics, vol.55, Issue 22, pp.225106, 03/2022, Published by IOP Science. (SCI, IF=3.207)

#### Publication in International Conferences

1. D. Shukla, A. Kumar, V. Bhaduria, S. K. Gupta, "865–867 MHz 180 nm Transmitter with Direct BPSK Modulation for Wireless Sensor Application", 4<sup>th</sup> International Conference on VLSI, Communication and Signal Processing (VCAS 2021), MNNIT Allahabad, Prayagraj-211004, India, 09/2021, Published by Springer.
2. V. Mishra, Y. K. Verma, S. K. Gupta & A.A. Haque, "Charge Plasma-Based Tunnel FET with Enhanced DC Performance Applicable for Ultra-low Power Applications", 4<sup>th</sup> International Conference on VLSI, Communication and Signal Processing (VCAS 2021), MNNIT Allahabad, Prayagraj-211004, India, 09/2021, Published by Springer.

#### Patents

1. Patent No.202022100430.7, Entitled a system for an improved long-range surface plasmon resonance (LR-SPR) sensor with extremely high im, Applied on 17/03/2022.

#### Reviewer in International Journals and Conferences

Sl. No.	Faculty Name	Journal Name
1.	Dr. Amit Dhawan	Circuits, Systems & Signal Processing Transactions of the Institute of Measurement and Control
2.	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
3.	Dr. Arun Prakash	Vehicular Communications IEEE Transactions on Cognitive Communication and Networking IEEE Access Physical Communication Adhoc Networks Transactions on Emerging Telecommunications Technologies Computer Networks
4.	Dr. Basant Kumar	Sustainable Computing: Informatics and Systems Journal Multimedia Tools and Applications Journal of Security and Communication Networks Journal of Information and Computer Security

5. Dr. Haranath Kar  
Journal of Intelligent Systems  
Journal of Information Sciences  
Journal of the Franklin Institute  
Transactions of the Institute of Measurement and Control  
IEEE Transactions on Circuits and Systems II: Express Briefs  
Fluctuation and Noise Letters
6. Dr. Manish Tiwari  
Circuit System Signal Processing  
Transactions of the Institute of Measurement and Control  
Students Conference on Engineering and Systems  
International Conference on Power, Control & Embedded Systems  
International Conference on Emerging Trends in Communication Technologies
7. Dr. R. K. Nagaria  
IEEE International Conference on Emerging Trends in Electrical, Electronics & Sustainable Energy Systems (ICETEESES-16)  
International Conference on Advance Computational Technique in Information & Communication Technology (ICACTICT-16)
8. Dr. Rajeev Tripathi  
Wireless Personal Communication Springer  
Adhoc Networks  
IEEE Communication Letters  
IEEE Conference on Wireless Communication and Sensor Networks (WCSN), IIT Allahabad  
IEEE UPCON, IIT Allahabad  
IETE Journal of Research, Taylor and Francis  
International Journal of Electronics  
International Journal of Electronics, Taylor and Francis  
Journal of Computational Science  
National Conference on Research and Practices in current area of IT (RPIT04) held at SLIT India  
Optik – International Journal for Light and Electron Optics  
Vehicular Communication  
West Indian Journal of Engineering
9. Dr. Ram Awadh Mishra  
Journal of Computational Electronics (JCEL)  
Analog Integrated Circuits & Signal Processing (ALOG)  
International Journal of Applied Mathematics and Computer Science (AMCS)
10. Dr. Santosh Kumar Gupta  
IEEE Access  
IEEE Students  
IEEE Transactions on Electron Devices  
International Journal of Electronics Letters  
International Journal of VLSI Design and Communication Systems (VLSIC)  
Journal of Computational Electronics  
Journal of The Institution of Engineers (India): Series B  
Microelectronics Journal  
Semiconductor Science and Technology  
Superlattices and Microstructures  
Wireless Personal Communications
11. Dr. Smriti Agarwal  
IEEE Transactions on Microwave Theory and Techniques  
8<sup>th</sup> International Conference on Signal Processing and Integrated Networks (SPIN 2021)

		IEEE Transactions on Geoscience and Remote Sensing (TGRS)
		Neural Computing and Applications
12.	Dr Sumit Kumar Jha	IEEE Transactions on Systems, Man and Cybernetics: Systems
		IEEE Transactions on Control Systems Technology
13.	Dr. V. Krishna Rao	Transactions of the Institute of Measurement and Control
14.	Dr. Vijay Shanker Tripathi	Journal of Superconducting
		ICCCCM-2016 (2 <sup>nd</sup> International Conference on Control Computing
		Communication and Materials)
		UPCON2017 (4 <sup>th</sup> IEEE Uttar Pradesh Section International
		Conference on Electrical, Computer and Electronics)
15.	Dr. Vinay Kumar	IEEE Internet of Things Journal
		IEEE Access
		International Journal of Electronics and Communication Engineering
		Physical Communication
		IEEE System Journal
16.	Dr. Yogendra Kumar Prajapati	Applied Physics
		IEEE Sensor Letters
		International Journal of Engineering, Science and Technology
		International Journal of Infrared Physics & Technology
		International Journal of Journal of Optics
		International Journal of Optical Fiber Technology
		International Journal of Optics Communications
		International Journal of Optics Letters
		International Journal of Physica Scripta
		International Journal of Progress in Electromagnetic Research
		International Journal of Sensors & Actuators: B. Chemical
		International Journal of Silicon
		JOSA-B
		Optical and Quantum Electronics

#### Book(s)/Book(s) Chapter(s) Authored

SI.No.	Faculty Name	Book	Book Chapter	Publisher
1.	Akash Srivastava, Alka Verma & Y. K. Prajapati	Handbook of Nanomaterials for Sensing Applications	Effect of 2D, TMD, perovskite, and 2D transition metal carbide/nitride materials on performance parameters of SPR biosensor	Elsevier
2.	Smriti Agarwal & D. Singh	Recent Trends in Electronics & Communication. Lecture Notes in Electrical Engineering		Springer, Singapore
3.	Smriti Agarwal & A. Sharma	Emerging Trends in Wireless Communication	Latest Trends in Printed Antenna Designs for Emerging Wireless Communication Systems	Central West Publishing (CWP), Australia

#### Invited Lectures Delivered

1.	Lecture delivered by Dr. Yogendra Kumar Prajapati at Lecture series program, Department of Electronics & Communication Engineering Institute of Technology, Nirma University, Ahmedabad on 06/08/2021 entitled Free space optical communication: Future & its challenges.	2.	Lecture delivered by Dr Sumit Kumar Jha at Workshop, CSED, MNNIT Allahabad on 11/02/2022 entitled One Week Workshop on "Advance Computing Technologies".
		3.	Lecture delivered by Dr. Yogendra Kumar Prajapati at Atal Workshop on Photonics and its application, Department of Electronics

- Engineering Sardar Vallabhbhai National Institute of Technology, Surat on 17/02/2022 entitled Free Space Optics: Emerging beyond Conventional RF Communication
4. Lecture delivered by Dr. Yogendra Kumar Prajapati at Gian course on Advances in Nanotechnology & its Application in Future Electronics, ECED, MNNIT Allahabad on 09/03/2022 entitled Nanotechnology and Nanomaterials for Circuits and Devices

### Events Organized by Department

Sl. No.	Name	Title	From	To
1.	International conference	Fourth International Conference on VLSI, Communication and Signal Processing (VCAS 2021), ECED, MNNIT Allahabad	24.09.2021	26.09.2022

### Research Projects Completed/Ongoing

Sl. No.	Principal Investigator /Co investigator(s)	Project Title	Funding Agency	Amount (INR)	Duration
1.	Dr. Santosh Kumar Gupta (PI)	Analysis of Various Structures of MTJs for Possible Application in MRAMs and Logic Circuits	CSIR-SRF (vide File No. 09/1032(0014) 2K 18 EMR-I dated April 17, 2018)	Rs. Lakhs	Ongoing
2.	Dr. Karuppanan P. (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	Rs.29.25 Lakhs	Ongoing
3.	Dr. Vinay Kumar (PI)	To develop a testbed based on Magnetic Induction (MI) communications for Agricultural soil condition monitoring (water concentration, minerals, and toxic chemicals)	DST	Rs.41.00 Lakhs (Approx)	Ongoing
4.	Dr. Vijaya Bhadauria (PI)	Special Manpower Development Program Chip to System Design (SMDP-C2SD)	Ministry of Electronics & Information Technology (Meity)	Rs.15.95 Lakhs	Ongoing
5.	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	Rs.89.4 Lakhs	Ongoing
6.	Dr. Santosh Kumar Gupta (Co-PI)	Special Manpower Development Program Chip to System Design (SMDP-C2SD)	DeiTy, Govt. of India at MNNIT Allahabad	Rs.70.00 Lakhs (Approx)	Ongoing
7.	Dr. Yogendra Kumar Prajapati (PI)	Role of graphene and MoS2 on performance of surface plasmon resonance based sensors: An application to biosensing,	Board of Research in Nuclear Sciences (BRNS)	Rs.24.00 Lakhs	Ongoing
8.	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	Rs.53.70 Lakhs	Ongoing
9.	Dr. Yogendra Kumar Prajapati (Co-PI)	Design and Analysis of Optical Waveguide for Biosensing	Collaborative Research Scheme	Rs.11.00 Lakhs	Ongoing

	Application	Under TEQIP-III (NPIU)		
10. Dr. Shweta Tripathi (PI)	Development of Non-Invasive Saliva Based Glucometer For Diabetes Management	SERB,DST	Rs.23.48 Lakhs	Ongoing
11. Dr. Yogendra Kumar Prajapati (Co-PI)	Project proposal for setup a Optical Communication of the department	Universities & Higher Educational Institutions (FIST)	Rs.1.15 Crore	Ongoing
12. Dr. Vinay Kumar (PI)	Design and Development of Underwater Sensor Networks using Magnetic Induction based Communications	SERB, Govt.of India	Rs.25.00 Lakhs (Approx)	Ongoing
13. 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	Rs.41.00 Lakhs	Ongoing
14. Dr. Vinay Kumar (PI)	Wireless Body area Networks: A magnetic Induction Communication Perspective	International Project	Rs.10.00 Lakhs (Approx)	Ongoing
15. Dr. Arun Prakash (PI)	Experimental Investigation of Multihop Sensory Data Collection for Networking Applications	MNNIT Allahabad	Rs.2.00 Lakhs	Ongoing
16. Dr. Basant Kumar (PI)	Design of Neural Network based Pacemaker	Department of Biotechnology (DBT), Govt. of India	Rs.69.64 Lakhs	Ongoing
17. Dr. Yogendra Kumar Prajapati (Co-PI)	Phosphorene based fiber optic plasmonic sensor for biomedical application	Collaborative Research Scheme Under TEQIP-III (NPIU)	Rs.13.32 Lakhs	Ongoing
18. Dr. Santosh Kumar Gupta (PI)	To develop and Test FPGA based low power wireless sensor network with front end and receiver modules	MNNIT Allahabad	Rs.2.00 Lakhs	Ongoing
19. 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	Rs.21.00 Lakhs	Ongoing

#### Other Relevant Information

1. Dr. Santosh Kumar Gupta received Honorary Rosalind Member of London Journals Press (ID #NG19807) on 05/2021.
2. Dr. Smriti Agarwal received Elevated to IEEE Senior member grade by Institute of Electrical and Electronics Engineers (IEEE) on 08/2021.

#### 9.9 GIS CELL

##### Vision

To establish an identity in the area of geoinformatics amongst national & international academic and research organizations through knowledge creation, acquisition & 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

**List of Laboratories:**

1. Geoinformatics Laboratory

**Courses Run by the Department:**

1. M. Tech. (GIS & Remote Sensing)
2. Ph.D. (GIS & Remote Sensing)

**Courses in which students were admitted during 04/2021 - 03/2022:**

1. M. Tech. (GIS & Remote Sensing)
2. Ph.D. (GIS & Remote Sensing)

**List of Ph.D. Thesis Completed**

Sl.No.	Name of Student	Reg. No.	Thesis Title	Thesis Supervisor(s)
1.	Ashutosh Kumar Tripathi	2015RGI51	Cloud Enabled Spatial Data Infrastructure	Dr. Sonam Agarwal
2.	Dharmendera Kumar Meena	2016RGI07	Design and Development of Web GIS Framework for Schools using OGC Standards: A Case Study of Prayagraj District	Dr. Sonam Agarwal

**Publication in International Journals**

1. Kanaya Dutta, Debolina Basu and Sonam Agrawal, "Synergetic interaction between spatial land cover dynamics and expanding urban heat islands", Environmental Monitoring and Assessment, vol.193, Issue 4, pp.1-22, 04/2021, Published by Springer Nature Switzerland AG. (SCI, IF=2.513)
2. Ashutosh Kumar Tripathi, Sonam Agrawal and R. D. Gupta, "Comparison of GIS-based AHP and fuzzy AHP methods for hospital site selection: a case study for Prayagraj City, India", GeoJournal, pp.1-22, 05/2021, Published by Springer Nature. (Scopus)
3. Manohar Yadav, Parvej Khan, Ajai Kumar Singh, Bharat Lohani, "An automatic hybrid method for ground filtering in mobile laser scanning data of various types of roadway environments", Automation in Construction, vol.126, pp.1-17, 06/2021, Published by Elsevier. (SCI, IF=10.51)
4. Kanaya Dutta, Debolina Basu and Sonam Agrawal, "Evaluation of seasonal variability in magnitude of urban heat islands using local climate zone classification and surface albedo", International Journal of Environmental Science and Technology, vol.19, Issue 9, pp.8677-869, 08/2021, Published by Springer Nature. (SCI, IF=3.519)
5. L. S. Ullo, A. Mohan, A. Sebastianelli, S. E. Ahamed, B. Kumar, R. Dwivedi and G. Sinha, "A New Mask R-CNN Based Method for Improved Landslide Detection", IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, vol.14, pp.3799-3810, 10/2021, Published by IEEE. (SCI, IF=3.7)
6. A. Mohan, A. Anand, A. K. Singh, R. Dwivedi and B. Kumar, "Selective encryption and optimization based watermarking for robust transmission of landslide images", Computers and Electrical Engineering, vol.95, 10/2021, Published by Elsevier. (SCI, IF=3.9)
7. Manohar Yadav, "A multi-constraint combined method for road extraction from airborne laser scanning data", Measurement, vol.186, pp.1-14, 12/2021, Published by Elsevier. (SCI, IF=5.131)
8. M. Devara, V. K. Maurya, A. Tiwari and R. Dwivedi, "A multi-criteria landslide susceptibility mapping using deep multi-layer perceptron network: A case study of Srinagar-Rudraprayag region (India)", Advance in Space Research, vol. 69, Issue 4, pp.1883-1893, 02/2022, Published by Elsevier. (SCI, IF=2.7)
9. Sonam Agrawal, Ashutosh Kumar Tripathi and R. D. Gupta, "Development and implementation of automatic metadata generation framework for SDI using OSS: a case study of Indian NSDI",

Arabian Journal of Geosciences, vol.15, pp.1-17, 02/2022, Published by Springer Nature. (Scopus)

#### Publication in International Conferences

1. Subhrant Verma, Sonam Agrawal and Kanaya Dutta, "Satellite Imagery Driven Assessment of Land Use Land Cover, Urbanization and Surface Temperature Pattern Dynamics over Tropical Megacities", Philippine Geomatics Symposium 2021, Virtual, pp.313-320, 06/2021, Published by International Archives Photogramm. Remote Sens. Spatial Inf. Sci.
2. P. Singh, V. Maurya and R. Dwivedi, "Pixel Based Landslide Identification using Landsat 8 and GEE", 2021 IEEE International Geoscience and Remote Sensing Symposium IGARSS, 2021, virtual, pp.8444-8447, 07/2021, Published by IEEE.
3. M. Shukla, V. Maurya, R. Dwivedi, "Groundwater Monitoring using Grace Mission", XXIV ISPRS Congress, online, pp.425-430, 07/2021, Published by ISPRS Archives.
4. D. Meghanadh, V. K. Maurya, M. Kumar and R. Dwivedi, "Automatic Detection of Landslides Based on Machine Learning Framework", 2021 IEEE International Geoscience and Remote Sensing Symposium IGARSS, 2021, online, pp.8460-8463, 07/2021, Published by IEEE.
5. Nyenshu Seb Rengma, Manohar Yadav, "Rainfall Mapping using Machine Learning Algorithm", IEEE International India Geoscience and Remote Sensing Symposium (InGARSS), Ahmedabad (India), pp.149-152, 12/2021, Published by IEEE.

#### Reviewer in International Journals and Conferences

Sl. No.	Faculty Name	Journal Name
1.	Dr. Manohar Yadav	Journal of Surveying Engineering International Journal of Digital Earth International Journal of Pavement Engineering International Journal of Remote Sensing International Society for Photogrammetry and Remote Sensing (ISPRS) Technical Commission V Symposium on "Education & Outreach - Geospatial technology – Pixel to People" Journal of Applied Remote Sensing Journal of Selected Topics in Applied Earth Observations and Remote Sensing Mathematical Problems in Engineering Survey Review
2.	Dr. Ramji Dwivedi	Journal of Surveying Engineering Remote Sensing Letters International Journal of Remote Sensing Journal of India Society of Remote Sensing Scientific Reports Geocarto International
3.	Dr. Sonam Agarwal	Arabian Journal of Geosciences ISPRS International Journal of Geo-Information Education and Information Technologies Forests Energies SN Applied Sciences Sustainability Geocarto International

### Book(s)/Book(s) Chapter(s) Authored

Sl. No.	Faculty Name	Book	Book Chapter	Publisher
1.	Sonam Agrawal & G. B. Khairnar	Geo-intelligence for Sustainable Development. Advances in Geographical and Environmental Sciences	Cloud-Based Geospatial Mapping and Analysis of Prayagraj Kumbh Mela of India: The UNESCO Intangible Cultural Heritage	Springer, Singapore
2.	R. D. Gupta, Sonam Agrawal & A. K. Tripathi	Geospatial Data Science in Healthcare for Society 5.0. Disruptive Technologies and Digital Transformations for Society 5.0	NSDI Based Innovative Approach for Development of Open Source SDI for Health Sector: A Way Forward.	Springer, Singapore

### Invited Lectures Delivered

- Lecture delivered by Dr. Manohar Yadav at AICTE- ISTE sponsored Faculty Refresher Program on Advanced Surveying Instruments and Techniques, Civil Engineering Department, All India Shri Shivaji Memorial Society's Polytechnic, Pune on 19/06/2021 entitled types of LiDAR.
- Lecture delivered by Dr. Ramji Dwivedi at ATAL FDP, AISA Polytechnic, Nagpur on 22/06/2021 entitled GPS Technology and its applications.
- Lecture delivered by Dr. Ramji Dwivedi at ATAL FDP, IET Lucknow on 28/07/2021 entitled GPS Technology and its applications.
- Lecture delivered by Dr. Manohar Yadav at a five days' workshop on Role of Geospatial Technology in New Era of Development - An Indigenous Initiative, Scanpoint Geomatics Ltd & School of Civil Engineering, Lovely Professional University on 02/09/2021 entitled LiDAR Remote Sensing: Fundamentals and Application.

### Events Organized by Department

Sl. No.	Name	Title	From	To
1.	Workshop	Short-term course on Training on Geospatial Technologies for Disaster Mitigation, MNNIT Allahabad	21.03.2022	25.03.2022
2.	Workshop	Short-term course on Training on InSAR: Theory, Processing and Applications, MNNIT Allahabad	27.03.2022	31.03.2022

### Research Projects Completed/Ongoing

Sl. No.	Principal Investigator /Co investigator(s)	Project Title	Funding Agency	Amount (INR)	Duration
1.	Dr. Manohar Yadav(Co-PI)	Sustainable Energy System for Achieving Novel Carbon Neutral Energy Communities (Sustenance)	DST India-European Union (Horizon 2020)	Rs. 5.04 Crores	Ongoing
2.	Dr. Ramji Dwivedi(PI)	Landslide monitoring, strain mapping and landslide forecasting using ALOS (L-band SAR) acquisitions	JAXA	Rs.Data support	Ongoing
3.	Dr. Ramji Dwivedi(PI)	Regional Center for Geodesy (RCG) at MNNIT Allahabad	DST	Rs.2.00 Crores	Ongoing
4.	Dr. Ramji Dwivedi(PI)	Multi-temporal SAR Interferometry studies for near-real time landslide monitoring	ISRO	Rs.45.43 Lakhs	Completed on 03/2022

### Other Relevant Information

1. Dr. Manohar Yadav received appointed as one of the expert members in Geospatial Information sectional committee, LITD 22 [acts as a national mirror committee of International Standard Organization (ISO)/TC 211]] to formulate a Bureau of Indian Standards (BIS) document: "Indian standard on LiDAR" on 09/2021.

### 9.10 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:

1. Language Laboratory

#### Courses Run by the Department:

1. English Language and Composition (HS11101/12101)
2. Communications Skills and Workshop (HS11102/12102)
3. Language Lab (HS11201/12201)
4. Principles of Management (HS15101/14101)
5. Economics (HS17101)
6. Accounting and Financial Management (HS17501)
7. Social Psychology (HS17502)
8. Human Resource Management (HS18501)
9. Indian Social Organization (HS18502)

10. Communication Skill and Personality Development (HS52105)
11. Research Methodology in Social Sciences (HS61104)
12. Strategic Human Resource Management (HS63301)
13. Communication & Organisational Behaviour (HS62109)
14. Literary Criticism (HS6018)
15. Public Policy: Formulation & Management (HS63113)
16. Mini Project (HS70106)

#### Courses in which students were admitted during 04/2021-03/2022:

1. English Language and Composition (HS11101/12101)
2. Communications Skills and Workshop (HS11102/12102)
3. Language Lab (HS11201/12201)
4. Principles of Management (HS15101/14101)
5. Economics (HS17101)
6. Accounting and Financial Management (HS17501)
7. Social Psychology (HS17502)
8. Human Resource Management (HS18501)
9. Indian Social Organization (HS18502)
10. Communication Skill and Personality Development (HS52105)
11. Research Methodology in Social Sciences (HS61104)
12. Strategic Human Resource Management (HS63301)
13. Communication & Organisational Behaviour (HS62109)
14. Literary Criticism (HS6018)
15. Public Policy: Formulation & Management (HS63113)
16. Mini Project (HS70106)

### List of Ph.D. Thesis Completed

Sl.No.	Name of Student	Reg. No.	Thesis Title	Thesis Supervisor(s)
1.	Sushil Kumar	2016RHU52	Effect of workplace spirituality on Employees' Happiness & Organizational Commitment: An Empirical Study of University Teachers in Uttar Pradesh	Dr. Ravindra Tripathi
2.	Divya Rai	2015RHU51	Effeminacy of Agriculture: Impact Analysis of Mahila Kisaan Sashakti karan Pariyojana on Socio-Economic Status, Knowledge and	Prof. Ambalika Sinha (Retired)

			Decision Making of Women Cultivators of Tonk, Rajasthan.	
3.	Shravan Kumar Dixit	2017RHU01	Comparative Efficacy of Target-Based Gratitude Intervention and Distinctive Cross-Cultural Conceptions of Gratitude	Dr. Jyotsna Sinha
4.	Swati Gupta	2016RHU03	An Experimental Study of Psycho-social Factors Affecting Menstrual Health among Adolescent School Girls, pertaining to Allahabad (Prayagraj), Uttar Pradesh	Prof. Ambalika Sinha (Retired)
5.	Jitendra Kumar Kushwaha	2016RHU02	Determinants of Entrepreneurial Inclination in Uttar Pradesh: An Empirical Study	Prof. Ambalika Sinha (Retired)

### Publication in International Journals

- Kartikey Sharma, Jyotsna Sinha, "Strangulation of Free Thinking in Nineteen Eightyfour", IRJMESH, vol.12, Issue 5, pp.11-14, 05/2021, Published by Isara Solutions. (IF=7.189).
- Mano Ashish Tripathi, Ravindra Tripathi, Uma Shankar Yadav, Rajesh Kumar Shastri, "Gig Economy: A paradigm shift towards Digital HRM practices", Journal of Positive School Psychology, Issue 2, pp.5609-5617, 03/2022, Published by Journal of Positive School Psychology. (Scopus).
- Dixit Shravan K, Jyotsna Sinha. Adaptation and validation of the gratitude questionnaire (GQ-6) for the Indian context. Current Psychology, 2021. DOI:10.1007/s12144-021-02143-2.
- Mitu Mandal (2022), Team Building and Appreciative Inquiry in Research and Development Teams. Vision: Journal of Business Perspective. Sage Publication.
- R. Tripathi (2022), "Exclusive and Digital analysis of the transformation of Institutions in the knowledge and innovation system of the handmade world carpet industry", Journal of Positive School Psychology, Vol.6.No.3, (in co-authorship).
- R. Tripathi (2022), "First Global Handicraft Index 2022: World's first GHI for growth and promotion of our craft, Tradition, and Skill of Artisan at the Global level", International Journal of Mechanical Engineering, Vol.7 (S1), (in co-authorship).
- R. Tripathi (2022), "Entrepreneurial Development of Artisan in ODOP in Uttar Pradesh to Boost Economy: Strategies for Socio-Economic Welfare of Artisans", Empirical Economics Letters, Vol 21.Special Issue No. 3, (in co-authorship) (ABDC-C-rated).
- R. Tripathi (2022), "Performance of Women Artisans as Entrepreneurs in ODOP In Uttar Pradesh to Boost Economy: Strategies and a Way towards Global Handicraft Index for Small Business", Academy of Marketing Studies Journal.Vol 26, Special Issue 2, (in co-authorship) (ABDC-B-Rated).
- R. Tripathi (2021), "A dynamic relationship between crude oil price and Indian equity market: an empirical study with special reference to Indian benchmark index Sensex", Bench marking: An International Journal, Vol. 28 No. 2, (in co-authorship) (ABDC-B-Rated).
- R. Tripathi (2021), "Performance of Women as Entrepreneurs in Moonj Craft (Family Business) during Post Pandemic COVID 19: Developing Strategies for Women Artisan", Empirical Economics Letters, Vol.20, Special Issue No.2. (ABDC-C-rated).

### Publication in National Journals

- Tripathi Sushmita, Jyotsna Sinha. The Evolution of Environmental Education as a driver for improving the technologies of managing the use of natural resources. Indian Journal of Environmental Protection, Volume 41, Pages 590-595. 2021.

### Reviewer in International Journals and Conferences

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



		Journal of Education, Society and Behavioral Science
		Journal of Global Research in Education and Social Science
		Journal of Scientific Research and Reports
2.	Dr. Ravindra Tripathi	Computational Economics (SSCI, SCIE, SCOPUS) – Published by Springer
		FIIB Review (SCOPUS) – Published by SAGE
		Management and Labour Studies (ABDC & SCOPUS) – Published by SAGE

#### Book(s)/Book(s) Chapter(s) Authored

Sl. No.	Faculty Name	Book	Book Chapter	Publisher
1.	Jyotsna Sinha	Cuckoo in Crisis	NA	Akhand Publishing House, Delhi
2.	Jyotsna Sinha	Quality of Life through Spiritual Intelligence	NA	Writers Choice New Delhi
3.	Jyotsna Sinha	How To Overcome Failure	Success and Failure: A Conscious Coupling	Lab Academia Research & Publishing Centre, Prayagraj
4.	Jyotsna Sinha	Peeling the Layers of the Pandemic Rethinking the Human Imagination	COVID-19: Psychological Impact, Well-Being and Mental Health	Disha International Publishing House

#### Invited Lectures Delivered

- Lecture delivered by Dr. Jyotsna Sinha at Shambhunath Institute of Management, Allahabad on 15/04/2021 entitled Essential Communication Skills for Recruitment/ Placement.
- Lecture delivered by Dr. Rajesh K. Shastri at Workshop, Faculty of Commerce, Mahatma Gandhi Central University, Bihar on 16/04/2021 entitled Digital Transformation of Human Resource Management: A new Perspective.
- Lecture delivered by Dr. Jyotsna Sinha at Rohilkhand University on 25/06/2021 entitled Psychoanalytic Criticism.
- Lecture delivered by Dr. Rajesh K. Shastri at Faculty Induction Programme-V, Director UGC-HRDC, JNU, New Delhi-110 067 on 20/09/2021 entitled Strategic Planning and its Significance for Education".
- Lecture delivered by Dr. Rajesh K. Shastri at FDP, Department of Business Administration Faculty of Management M.J.P. Rohilkhand University, Bareilly in collaboration with All India Council for Technical Education, New Delhi on 23/10/2021 entitled Strategies for HRM in the ERA of Digital Transformation.
- Lecture delivered by Dr. Soni Joseph during the inauguration of the Certificate Course in Communicative English at Mar Thoma College, Chungathara, Kerala, 07/08/2021.
- Lecture delivered by Dr. Jyotsna Sinha at Rewa University, MP on 26/02/2022 on 'Basic Communication Skills in English.
- Lecture delivered by Dr. Jyotsna Sinha at Krishna Institute of Engineering and Technology (KIET), Ghaziabad, UP on 12/02/2022 entitled "Nuances of Communication".
- Lecture delivered by Dr. Jyotsna Sinha at Iswar Saran Degree College, Allahabad on 10/02/2022 On 'An Introduction to Communication Skill'.
- Lecture delivered by Dr. Jyotsna Sinha at Ewing Christian College, Prayagraj, Allahabad entitled Nuances of Psychoanalytical Criticism on 31/07/2021.
- Dr. Mitu Mandal delivered Expert Talk in National E-Conference on "Recent Emerging Trends in Science, Engineering and Management" held on 7<sup>th</sup> and 8<sup>th</sup> October, 2021. Organised by LDC Institute of Technical Studies, Prayagraj (U.P.).



### 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	Rs.3.00 Lakhs	Completed

### Other Relevant Information

1. Dr. Jyotsna Sinha received 100% in Coursera: Foundations of Mindfulness by Rice University, USA on 05/2021.
2. Dr. Jyotsna Sinha received 100% in Coursera: Know Thyself by The University of Edinburgh on 05/2021.
3. Dr. Soni Joseph acted as a Resource Person/ Expert for Developing the Course Content for The Diploma Course in the Teaching of English (DCTE), a one-year Diploma Course for In-service and Pre-Service Teachers of English, developed by Regional Institute of Education (a constituent Unit of NCERT), Bhopal.
4. Dr. Jyotsna Sinha received Certificate of Excellence in Reviewing by Journal of Education, Society and Behavioral Science.

### 9.11 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.	Sumeeta Singh	2015RMA01	Propagation of Shock Wave in Conducting and Non-Conducting Gases	Dr. Gorakh Nath & Dr. Pankaj Srivastava

### Publication in International Journals

1. G. Nath, S. Singh "Approximate analytical solution for ionizing cylindrical magnetogas-dynamic shock wave in rotational axisymmetric self-gravitating perfect gas: Isothermal flow", Differential Equations and Dynamical Systems, 04/2021, (Scopus)
2. G Nath, A Devi, "Exact and numerical solutions using Lie group theoretic method for the cylindrical shock waves in a self-gravitating ideal gas with axial magnetic field", Int. J. Appl. Com. Maths, vol.7, Issue 3, pp.61, 04/2021, Published by Springer Nature. (Scopus)
3. G Nath, "Similarity solution for magnetogas-dynamic shock wave in a perfectly conducting dusty gas in rotating medium with axial or azimuthal magnetic field and increasing energy in presence of conductive and radiative heat fluxes", Acta Astronautica, vol.182, pp.599-610, 05/2021, Published by Elsevier Science. (SCI, IF=2.954)
4. Ajim Ansari, Brajesh Kumar Sharma, Shiv Datt Kumar, Srinivas Behara, "Graded Prime Ideals Attached to a Group Graded Module", Iranian Journal of Mathematical Sciences and Informatics, 05/2021, Published by ACECR at Tarbiat Modares University. (Scopus)
5. Sushil Kumar, Priyamvada Singh, Rama Sushil, Pitam Singh & Anil Tiwari, "Microtremor measurement to evaluate site characteristics by horizontal to vertical spectral ratio technique in Sikkim, Northeast Himalayas, India", Quaternary

- International, vol.585, pp.134-142, 05/2021, Published by Elsevier. (SCI, IF=2.003)
6. G Nath, S. Singh "A self-similar solution for unsteady adiabatic and isothermal flows headed by a shock wave in non-ideal gas using Lie group analysis with azimuthal or axial magnetic field in rotating medium", Eur. Phys. J. Plus, vol.136, pp.477, 05/2021, Published by Springer Nature. (SCI, IF=3.758)
  7. Pramod Kumar Yadav and Ankit Kumar, "An inclined magnetic field effect on entropy production of non-miscible Newtonian and micropolar fluid in a rectangular conduit", International Communications in Heat and Mass Transfer, vol.124, pp.105266, 05/2021, Published by Elsevier. (SCI, IF=5.431)
  8. G Nath, "Cylindrical shock wave propagation in a self-gravitating rotational axisymmetric perfect gas under the influence of azimuthal or axial magnetic field and monochromatic radiation with variable density", Pramana-J Phys, vol.95, pp. 95, 08/2021, Published by Springer Nature. (SCI, IF=2.699)
  9. G Nath, "Analytical solution for unsteady adiabatic and isothermal flows behind the shock wave in a rotational axisymmetric mixture of perfect gas and small solid particles", Z. Naturforsch, vol.76, Issue 9, pp.853-873, 09/2021, Published by De Gruyter. (SCI, IF=1.712)
  10. T. V. Zhyber, L. O. Lihonenko, O. V. Piskunova, P. Srivastava & T. A. Huzik, "Logit-model for predicting startup's venture funding", Socio-Economic Problems of the Modern Period of Ukraine, vol.151, Issue 5, pp.29-36, 09/2021.
  11. G Nath, "Exponential shock wave in perfectly conducting self-gravitating rotational axisymmetric dusty gas with magnetic field, radiative and conductive heat fluxes", Phys. Fluids, vol.33, Issue 10, pp.103324 (20, 10/2021, Published by American Institute of Physics. (SCI, IF = 4.98)
  12. Pankaj Srivastava, Saurabh Srivastav, "Intelligent Ranking System for Sustainability Factors in Case of Community-based Tourism", International Transaction Journal of Engineering, Management, Applied Sciences & Technologies, vol.12, Issue 5, pp.1-13, 12/2021. (SCI)
  13. Pankaj Srivastava, Rajkrishna Mondal, "Design and Development of an Intelligent System to Assess Kidney Performances of Persons Suffering from Diabetes", International Transaction Journal of Engineering, Management, Applied Sciences & Technologies, vol.12, Issue 4, pp.1-14, 12/2021. (SCI)
  14. G Nath, "Analytical solution for the propagation of shock waves in a rotating medium: Power series solution", J. Eng. Phys. Thermophy, vol.95, pp. https://doi.org/10.1007/s12573-021-01202-2, 01/2022, Published by Springer Nature. (Scopus)
  15. Pramod Kumar Yadav, Amit Kumar Verma, "Analysis of two immiscible Newtonian and micropolar fluid flow through an inclined porous channel", Mathematical Methods in the Applied Sciences, vol.45, Issue 3, pp.1700-1724, 02/2022, Published by Wiley. (SCI, IF = 3.007)
  16. G Nath, "A self-similar solution for piston generated magnetogasdynamic shock wave in a perfectly conducting dusty gas in rotating medium with the flux of monochromatic radiation", Z. Naturforsch, vol.77, Issue 4, pp.379-401, 02/2022, Published by Walter De Gruyter GmbH. (SCI, IF=1.712)
  17. G Nath, "Approximate analytical solution for the propagation of shock wave in a mixture of small solid particles and non-ideal gas: Isothermal flow", Z. Naturforsch, vol.77, Issue 2, pp.191-206, 02/2022, Published by De Gruyter. (SCI, IF=1.712).

#### Publication in International Conferences

1. Pankaj Srivastava, Rajkrishna Mondal, "Qualiflex based ranking system by using Interval Valued Hesitant Fuzzy Set and its application to rank the Diabetic patients", 2021 International Conference on Computing, Communication, and Intelligent Systems (ICCCIS), 19-20 February 2021, pp.78-85, 04/2021, Published by IEEE.

#### Reviewer in International Journals and Conferences

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

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

- |    |                           |   |
|----|---------------------------|---|
|    |                           | Wave in Random and Complex Media  |
| 3. | Dr. Manoj Kumar           | Zeitschrift für Naturforschung A - A Journal of Physical Sciences<br>Mathematical Methods in the Applied Sciences<br>Journal of Applied Mathematics and Computing (JAMC)<br>Neural Computing and Applications (NCAA)  |
| 4. | Dr. Mukesh Kumar          | Journal of Computational and Applied Mathematics<br>Communications in Nonlinear Science and Numerical Simulation<br>Computers & Mathematics with Applications<br>Indian Journal of Pure & Applied Physics (IJPAP)<br>International Journal of Geometric Methods in Modern Physics<br>International Journal of Mathematical, Engineering & Management Sciences<br>Journal of Mathematical analysis and Applications<br>Mathematical Methods in the Applied Sciences<br>Nonlinear Dynamics<br>Nonlinear Engineering – Modelling and Applications  |
| 5. | Dr. Pitam Singh           | The European Physical Journal Plus<br>IEEE Access<br>IEEE Transactions on Engineering Management.<br>OPSEARCH<br>International Journal of Applied and Computational Mathematics<br>IEEE Transactions on Fuzzy Systems   |
| 6. | Dr. Pramod Kumar<br>Yadav | Iranian Journal of Fuzzy Systems<br>Mathematical modelling in Colloid Science<br>Arabian Journal for Science and Engineering (AJSE)<br>Archive of Applied Mechanics<br>Archives of Mechanics<br>Differential Equations and Dynamical Systems<br>Heat Transfer<br>International Journal on Geomathematics<br>Journal of the Brazilian Society of Mechanical Sciences and Engineering (BMSE)<br>Journal of the Taiwan Institute of Chemical Engineers<br>Mathematical Methods in the Applied Sciences<br>Meccanica<br>Microfluidics and Nanofluidics<br>Microsystem Technologies (MITE)<br>National Academy Science Letters<br>Propulsion and Power Research<br>Special Topics & Reviews in Porous Media-An International Journal<br>The European Physical Journal Plus<br>Theoretical and Computational Fluid Dynamics |
| 7. | Dr. Prashanta Majee       | Transport in porous media<br>Thai Journal of Mathematics<br>Computational and Applied Mathematics<br>Proceedings of the National Academy of Sciences, Physical Sciences (NASA)  |
| 8. | Dr. Sahadeo Padhye        | Yugoslav Journal of operation research<br>Asia Security and Privacy Conference<br>Computational and Applied Mathematics<br>IEEE Access  |

- Information Security Journal: A Global Perspective  
 International Journal of Communication system  
 International Journal of Computer Mathematics: Computer Systems Theory  
 International Journal of Information security Science  
 Journal of Internet Technology  
 National workshop on Cryptography  
 Transactions on Emerging Telecommunications Technologies  
 Communications in Algebra  
 Computational Methods for Differential Equations  
 International Journal of Information Technology & Decision Making  
 Italian journal of pure and applied Mathematics  
 Journal of Computational Science  
 Journal of Indian Mathematical Society  
 Journal of Prime Research in Mathematics  
 Journal of Scientific Research, BHU (on reduction & relation type of an ideal)  
 Mathematical Reviews  
 Mathematical Reviews (for Some remarks on n-absorbing subsemimodules)  
 Mathematical Reviews ( foroisson Dixmier-Moeglin equivalence from a topological point of view)  
 Mathematical Reviews (For Critical binomial ideals of Northcott type)  
 Mathematical Reviews/J. Aust. Math. Soc.  
 Mathematical Reviews/MathSciNet (Reviewer No. - 098594).  
 National Academy of Science Letters  
 Palestine Journal of Mathematics  
 Springer Plus, SCI Journal  
 Turkish Journal of Mathematics  
 International Journal of Biomathematics  
 AIMS Mathematics

**Book(s)/Book(s) Chapter(s) Authored**

Sl. No.	Faculty Name	Book	Book Chapter	Publisher
1.	Pavlo Hryhoruk, Nila Khrushch, Nina Poyda-Nosyk & Pankaj Srivastava	Strategies, Models and Technologies of Economic Systems Managemen		FAI Publications
2.	Pankaj Srivastava & Saurabh Srivastava	Mathematical, Computational Intelligence & Engineering Approaches for Tourism, Agriculture and Health care	Itinerary Planning Destination Ranking Tourism Analytics System	Springer Singapore
3.	Pankaj Srivastava & Saurabh Srivastava	Mathematical, Computational Intelligence & Engineering Approaches for Tourism, Agriculture and Health care	"Spectrum of Intelligent Tourist Destination Image Decision Information System	Springer Singapore
4.	Pankaj Srivastava, Rajkrishna Mondal	Mathematical, Computational Intelligence and Engineering Approaches for Tourism, Agriculture and Health care	Design & Development of Intelligent Information System using Hesitant Fuzzy Weighting Linguistic Term Sets for Computing with Words	Springer Singapore
5.	P.Srivastava, S. S. Thakur, Georgia	Mathematical, Computational Intelligence and Engineering		Springer Singapore

Irina Oros, Ali A. Al Approaches for Tourism,  
Jarrah, Vichian Agriculture and Health care  
Laohakosol

### Invited Lectures Delivered

1. Lecture delivered by Dr. Shiv Datt Kumar at National Level 05 days Faculty Development Programme on Emerging Trends in Mathematics, Tirumala Engineering College, Jonnalagadda, Guntur District, Andhra Pradesh on 17/06/2021 entitled Representation Theory of Finite Groups.

### Expert/Invited Lectures Organized

1. A lecture is delivered by Prof R. Thangadurai, Professor, Harish Chandra Research Institute

### 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	Science and Engineering Research Board (SERB)	Rs.22.80 Lakhs	Completed
2.	Dr. Pramod Kumar Yadav (Co-PI)	Flow through a membrane modeled of porous cylindrical particles using Particle-in-cell approach	DST, New Delhi	Rs.12.86 Lakhs	Completed
3.	Dr. Manoj Kumar (PI)	Numerical studies of effects on human-heart due to growing blockage in coronary artery	Department of Biotechnology (DBT)	Rs.21.73 Lakhs	As Prof. Manoj Kumar is no more so project is closed.
4.	Dr. Pramod Kumar Yadav (PI)	"Hydrodynamics modelling of Complex porous membranes and their applications in engineering sciences	SERB, Govt. of India	Rs.8.08 Lakhs	Completed
5.	Dr. Manoj Kumar (PI)	Numerical Algorithms Based on Neural Network for the Solution of Boundary Value Problems	National Board for Higher Mathematics (NBHM)	Rs.13.64 Lakhs	As Prof. Manoj Kumar is no more so project is closed.

## 9.12 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 Lab
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 Virtual Instrumentation Laboratory
13. Metrology Laboratory
14. Product Design and Manufacturing Laboratory
15. Refrigeration and Air Conditioning Laboratory
16. Steam Engine 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 04/2021 - 03/2022:

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.

#### List of Ph.D. Thesis Completed

Sl.No.	Name of Student	Reg. No.	Thesis Title	Thesis Supervisor(s)
1.	Mohd. Nayab Zafar	2015RME06	An Optimisation Approach Integrated with Artificial Potential Field Method for Mobile Robot Path Planning and Navigation Control	Dr. Jagadish Chandra Mohanta
2.	Alka Bharti	2014RME08	Design, Fabrication and Performance Analysis of a Solar Parabolic Trough Collector	Dr. Bireswar Paul
3.	Vaibhav Srivastava	2016RME07	An experimental evaluation of self healing characteristics in AA2014 alloy based smart metal matrix composites structures	Dr. Manish Gupta
4.	Pankaj Kumar Gupta	2018RME09	Development of Aluminium Alloy based Hybrid Metal Matrix Composites: Properties, Characterization & Machining	Dr. Manoj Kumar Gupta
5.	Shubham Tripathi	2017RME08	A study on implementation of Smart Supply Chain Management in Indian scenario	Dr. Manish Gupta
6.	Sunil Singh Rana	2017RME07	Nanocellulose from Hemp Fibres and its Epoxy based Bio nano composites: Synthesis, Analysis and Characterization	Dr. Manoj Kumar Gupta
7.	Raj Kumar Gond	2018RME51	Sugarcane Bagasse Nanofibres Reinforced PLA Composites for Packaging Applications	Dr. Manoj Kumar Gupta

8.	Bholu Kumar	165ME09	Supersonic Jet Mixing from Convergent-Divergent Bevelled Nozzles	Dr. Shantanu Srivastava
9.	Reetesh Kumar Shukla	2010RME02	Non-Destructive life prediction of engineering materials under fatigue and fracture using Electro-Mechanical Impedance Technique	Dr. K. N. Pandey
10.	Abhishek Kumar	2010RME60	Effect of Self-Healing Dicyclopentadiene Microcapsules on Fracture Toughness of Epoxy	Dr. K. N. Pandey

#### Publication in International Journals

- Shagun Varshney, Nidhi Mishra, M. K. Gupta, "Progress in nanocellulose and its polymer based composites: A review on processing, characterization, and applications", *Polymer Composites*, vol.42, pp.3660-3686, 04/2021, Published by Willey. (SCI, IF=3.17)
- S. S. Rana, M. K. Gupta, "Fabrication of Bionanocomposites Reinforced with Hemp Nanocellulose and Evaluation of their Mechanical, Thermal and Dynamic Mechanical properties.", *Proceedings of the Institution of Mechanical Engineers, Part L*, vol.235, Issue 11, pp.2470–248, 04/2021, (SCI, IF=2.31)
- Saty Dev and Rajeev Srivastava, "Effect of infill parameters on material sustainability and mechanical properties in fused deposition modelling process: a case study", *Progress in Additive Manufacturing*, vol.6, pp.631-642, 04/2021, Published by springer. (SCI)
- Bholu Kumar, Suresh Kant Verma & Shantanu Srivastava, "Mixing Characteristics of Supersonic Jet from Bevelled Nozzles", *International Journal of Heat and Technology*, vol.39, Issue 2, pp.559-572, 04/2021, Published by IIETA. (Scopus)
- Shubham Tripathi and Manish Gupta, "A framework for procurement process re-engineering in Industry 4.0", *Business process management journal*, vol.27, Issue 2, pp.439-458, 05/2021, Published by Emerald Publication. (SCI, IF=2.121)
- Jitendra Narayan Gangwar and Samir Saraswati, "Stability of dual (diesel-alcohol) and triplicate (diesel-alcohols-ethers) fuel blends", *Biofuels*, vol.12, Issue 1, 05/2021, Published by Taylor and Francis. (SCI, IF=2.65)
- Syed Abbas Ali and Samir Saraswati, "Control Oriented Observer for Cylinder Pressure Estimation of SI Engine using Frequency Response Function", *International Journal of Modeling Identification and Control*, vol.39, Issue 2, pp.138-149, 05/2021, Published by Inder science. (Scopus)
- Ram Sajeevan and Avanish Kumar Dubey, "Machining quality comparison of Al-TiB2 composite using conventional EDM and magnetic force-assisted powder-mixed EDM", *Advances in Materials and Processing Technologies*, pp.1-17, 06/2021, Published by Taylor & Francis Ltd. (SCI, IF=2.37)
- Umesh Kumar Singh and Avanish Kumar Dubey, "Study of Weld Characteristics in Friction Stir Welding of Dissimilar Mg-Al-Zn Magnesium Alloys Under Varying Welding Conditions", *Journal of Materials Engineering and Performance*, vol.30, pp.7690–770, 06/2021, Published by springer. (SCI, IF=2.036)
- A. Sanyal, N. Zafar, J. C. Mohanta & F. Ahmed, "Path Planning Approaches for Mobile Robot Navigation in Various Environments: A Review", *Advances in Interdisciplinary Engineering*, vol.1, pp.555-572, 06/2021, Published by Springer. (Scopus)
- Garima Kushwaha, Samir Saraswati & Bireswar Paul, "Characterization of spark plug deposits of an SI engine fuelled with Gasoline-Ethanol Blends", *International Journal of Ambient Energy*, pp.DOI: 10.10, 06/2021, Published by Taylor & Francis. (SCI)
- G. Kushwaha, S. Saraswati and B. Paul, "Characterisation of spark plug deposits of an SI engine fuelled with gasoline-ethanol blends", *International Journal of Ambient Energy*, pp.1-

- 38, 07/2021, Published by Taylor & Francis. (SCI)
13. M. K. Gupta, M. Ramesh, Sabu Thomas, "Effect of hybridization on properties of natural and synthetic fibres reinforced polymer composites (2001-2020): A review. Polymer Composites", Polymer Composites, vol.42, pp.4981-5010, 07/2021, Published by Willey. (SCI, IF=3.17)
  14. R. K. Gond. M. K. Gupta, Mohammad Jawaid, "Extraction of Nanocellulose from Sugarcane Bagasse and its Characterization for Potential Applications", Polymer Composites, vol.42, pp.5400-5412, 07/2021, Published by Willey. (SCI, IF=3.17)
  15. Piyush Pal, Suresh Kumar Patel, Ajaya Bharti, Audhesh Narayan, Rahul Dev, Dhananjay Singh, "Energy, exergy, energy matrices, exergoeconomic & enviroeconomic assessment of modified solar stills ", Sustainable Energy Technologies and Assessments, vol.47, Issue 101514, pp.1-34, 07/2021, Published by Elsevier. (SCI, IF=5.353)
  16. D. Kumar, K. N. Pandey, "A comparative study of erosion wear rate of conventional and unconventional thermal barrier coatings on IN800 superalloys", Sadhana, vol.46, pp.01-17, 07/2021, Published by Springer. (SCI, IF=1.214)
  17. Vineed Narayanan, G Venkatarathnam, "Theoretical analysis of Rankine cycle operating with zeotropic mixtures of carbon dioxide and hydrocarbons", ASME, Journal of Energy Resources Technology, vol.144, Issue 6, pp.062103, 08/2021, Published by ASME. (SCI, IF = 3.070)
  18. Vaibhav Srivastava and Manish Gupta, "Impact of Post Hardening Mechanism on Self-Healing Assessment of AA2014 Nitinol-Based Smart Composites", Metals and Materials International, vol.27, Issue 8, pp.2666-2681, 08/2021, Published by Springer. (SCI, IF=1.990)
  19. Srikant Tiwari, S. B. Mishra, "Low velocity oxy fuel spraying of hydroxyapatite coating on a multifunctional UNS S31254 austenitic stainless steel", Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, vol.235, Issue 8, pp.958-972, 08/2021, Published by Sage. (SCI, IF=1.871)
  20. S. Acharya, "Natural Convection Heat Transfer from Upward, Downward, and Sideward Solid/ Hollow Hemispheres", JTHT, vol.36, Issue 1, pp.141-153, 09/2021, Published by AIAA. (SCI)
  21. Umesh Kumar Singh and Avanish Kumar Dubey, "Study of joining performance of dissimilar Mg alloys in friction stir welding", Proc IMechE Part C: Journal of Mechanical Engineering Science, vol.235, Issue 18, pp.3554–356, 09/2021, Published by Sage journals. (SCI, IF=1.758)
  22. Umesh Kumar Singh and Avanish Kumar Dubey, "Effect of process parameters in friction stir welding of dissimilar magnesium alloys", Journal of the Brazilian Society of Mechanical Sciences and Engineering, vol.43, Issue 10, pp.1-16, 09/2021, Published by Springer Verlag. (SCI, IF =2.361)
  23. Piyush Pal, Suresh Kumar Patel, Ajaya Bharti, Audhesh Narayan, Rahul Dev, Dhananjay Singh, "Energy, exergy, energy matrices, exergo economic and enviroeconomic assessment of modified solar stills", Sustainable Energy Technologies and Assessments An Internal Journal, vol.47, 10/2021, Published by Elsevier. (SCI, IF=5.353)
  24. M. Agarwal, N. Dixit, M. Dixit, Srivastava, "Interfacial study for the effect of Al<sub>2</sub>O<sub>3</sub> addition on the microstructure and micro-hardness of the Al<sub>2</sub>O<sub>3</sub>/AA6061 semi-solid cast composite.", Phase Transitions, vol.94, Issue 12, pp.899-909, 10/2021, Published by Taylor & Francis online. (SCI, IF=1.452)
  25. S. H. Mullick, D. Das Gupta & P. K. Kundu, "Numerical study on natural convection and entropy generation inside a fluid saturated square porous enclosure with non-uniform heating from top", Journal of Porous Media, vol.25, Issue 1, pp.83-102, 10/2021, Published by Begell House Inc.. (SCI, IF=1.782)
  26. Agarwal, Mayank & Srivastava, Rajeev, "Correlation between tensile strength and microstructural properties of LM6 semi-solid cast alloy ball-milled with Si-rich/Al powder.", Philosophical Magazine Letters, vol.102, Issue 1,

- pp.26-34, 10/2021, Published by Taylor & Francis online. (SCI)
27. M. Mukhopadhyay & P. K. Kundu, "Ecological and Economical Processing of Ti-6Al-4V with an Augmentation in Grindability", *Sadhana*, vol.46, pp.196, 10/2021, Published by Springer Nature. (SCI, IF=1.347)
  28. Umesh Kumar Singh and Avanish Kumar Dubey, "Study of optimum welding performance in friction stir welding of dissimilar Mg alloys using integrated RSM-TLBO algorithm", Part E: *Journal of Process Mechanical Engineering*, vol.236, Issue 3, pp.1153-1166, 11/2021, Published by sage journals. (SCI, IF=1.356)
  29. Manish Dixit, Rajeev Srivastava, "Effect of Sintering Temperature on the Microstructure and Properties of the Copper Synthesized by Powder Metallurgy Route", *Advancement in Materials, Manufacturing and Energy Engineering*, vol.1, pp.549-557, 12/2021, Published by springer. (SCI)
  30. Bholu Kumar, Suresh Kant Verma, Shantanu Srivastava, "Effect of Collar and Bevel Angle in Mixing Enhancement of Mach 1.76 Jet Exiting From a Convergent-Divergent Nozzle", *Applied Engineering Letters*, vol.6, Issue 1, pp.1-10, 2021. (Scopus)
  31. Shiv Sunder Singh, Akash Subhash Awale, and Binayaka Nahak, "Assessment the Surface Characteristics of Heat-Treated AISI 1040 Steel Using Magnetic Non-Destructive Techniques", *Russian Journal of Non-destructive Testing*, vol.58, Issue 5, pp.369-380, 01/2022, Published by Springer. (SCI)
  32. Raju Singh and Audhesh Narayan, "Parametric study of indigenously developed electrochemical diamond cut-off grinding setup using in conel 925", *International Journal of Machining and Machinability of Materials*, 01/2022, Published by Inderscience. (Scopus)
  33. Binayaka Nahak & Ashish Srivastava, "Non-destructive Monitoring of Electro-discharge Machined Die Steel", *Arabian Journal for Science and Engineering*, pp.1-8, 01/2022, Published by Springer. (SCI, IF=2.8)
  34. M. Dixit, M. Garwal, R. Srivastava & D. P. Singh, "Study the effect of introducing 6061 Al alloy chip on the microstructure and properties of the 6061 wrought Al alloy prepared by gravity die-cast", *Journal of The Institution of Engineers*, vol.103, Issue 1, pp.333-340, 01/2022, Published by springer. (Scopus)
  35. M. D. F. Ahmed, J. C. Mohanta & M. N. Zafar, "Development of smart quadcopter for autonomous overhead power transmission line inspections", *Materials Today: Proceeding*, vol.51, Issue 1, pp.261-268, 02/2022, Published by Elsevier. (Scopus, IF=1.46)
  36. Ajmit Kumar, Sanket Kumar and K. N. Pandey, "Life Prediction of C3X Gas Turbine blade of CMSX-4 Material", *Advances in Materials and Processing Technologies*, 02/2022, Published by Taylor & Francis. (Scopus)
  37. Dhruv Kant Rahi and Avanish Kumar Dubey, "Comparative study of machining quality for Al-SiC-Gr hybrid metal matrix composite using ECM and ECSG", Part C: *Journal of Mechanical Engineering Science*, 02/2022, Published by sage journals. (SCI, IF=1.356)
  38. F. Ahmed, J. C. Mohanta, A. Keshari & P. S. Yadav, "Recent Advances in Unmanned Aerial Vehicles: A Review", *Arabian Journal for Science and Engineering*, vol.1, Issue 1, pp.1-11, 02/2022, Published by Springer. (SCI, IF=2.995)
  39. M. K. Gupta, M. Manimaran, "Investigation of Mechanical and Dynamic Mechanical properties of a novel Acacia arabica fiber polyester hybrid composites", *Polymer Composites*, vol.17, Issue 22, pp.2724-2735, 03/2022, Published by Willey. (SCI, IF=3.17)
  40. P. S. Yadav, V. Agrawal, J. C. Mohanta & MDF Ahmed, "A robust sliding mode control of mecanum wheel-chair for trajectory tracking", *Materials Today: Proceeding*, vol.56, Issue 1, pp.1623-630, 03/2022, Published by Elsevier. (Scopus, IF=1.46)
  41. Deepak Kumar Gupta, Avanish Kumar Dubey, "Modeling and optimization of Wire-EDM parameters for machining of Ni54.1Ti45.9 shape memory alloy using hybrid approach", Part E: *Journal of Process Mechanical Engineering*, 03/2022, Published by sage journals. (SCI, IF=1.356)



### Publication in National Journals

1. Dhananjay Singh Yadav, Vikalp Kumar Dixit, Vikramaditya, Nitendra Kumar Gond, Bireswar Paul, "Numerical analysis of heat transfer augmentation using wire coil insert in tube", International Journal of Creative Research Thoughts (IJCRT), vol.10, Issue 1, pp.24-30, 01/2022, Published by IJCRT.
2. Dhananjay Singh Yadav, Ansab Khan, Bireswar Paul, Akshoy Ranjan Paul, "Performance analysis of mixed fuel biogas and LPG in domestic cook stove burner", International Journal of Creative Research Thoughts (IJCRT), vol.10, Issue 1, pp.31-36, 01/2022, Published by IJCRT.

### Publication in International Conferences

1. Sanket Kumar, Ajmit Kumar and K. N. Pandey, "CFD analysis of thermal barrier coated C3X gas turbine blade of CMSX-4 material", Proceeding First international conference on "Technological Innovations in Mechanical Engineering (TIME-2021)", Sharda University, Greater Noida, Uttar Pradesh, India, 04/2021.
2. Ajmit Kumar, Sanket Kumar and K N Pandey, "Life Prediction of C3X Gas Turbine blade of CMSX-4 Material", Proceeding of the First International Conference on "Technological Innovations in Mechanical Engineering (TIME-2021)", Sharda University, Greater Noida, Uttar Pradesh, India, 04/2021.
3. Ali, S. and Saraswati, S, "Estimation of Gasoline Engine Emissions from Cylinder Pressure Parameters: Artificial Neural Network Approach", Business of Automated Mobility (BAM) Forum, 06/2021, Published by SAE Technical Paper 2021-01-1014.
4. Satyajeet Kumar, Anshul Yadava, Virendra Patel, Binayaka Nahak, Anil Kumar Sing, "Mechanical behaviour of SiC particulate reinforced Cu alloy based metal matrix composite", International Conference on Advances in Mechanical Engineering Research and Development (ICRAMERD-20) Recent, NIL, pp.186-190, 08/2021, Published by Materials Today: Proceedings.
5. Ashiwani Kumar, Virendra Kumar, Anil Kumar, Binayaka Nahak Rajesh Singh, "Investigation of

mechanical and tribological performance of marble dust 7075 aluminium alloy composites", Part of special issue: International Conference on Advances in Materials Processing & Manufacturing Applications, NIL, pp.4542-4547, 08/2021, Published by Materials Today: Proceedings.

6. Business of Automated Mobility (BAM) Forum, "Effect of ethanol-gasoline blends on adsorption/desorption process in SI engine", SAE Powertrains, Fuels & Lubricants Digital Summit, 09/2021, Published by SAE Technical Paper 2021-01-1184.
7. P. John, V. R. Komma & S. P. Bhore, "4D Printing - A Smart way of 3D Printing: A Brief Review", International Conference on Mechanical Engineering (INCOME-2021), Netaji Subhas University of Technology, New Delhi, India, pp.Paper ID 3, 11/2021, Published By Proceedings.
8. Reetesh Kumar Shukla and K. N. Pandey, "EMI based Fatigue life assessment of friction stir welded AA5083-O and AA6063-T6 aluminium alloy", Second International Conference on Future Technologies 2021 (ICoFT-2021) in Manufacturing, Automation, Design and Energy, NIT Puducherry, 12/2021.
9. Dhananjay Singh Yadav, Bireswar Paul., "Investigation of Partially Premixed Combustion In Household LPG Cook Stove Burner With Modification.", 48<sup>th</sup> National Conference on Fluid Mechanics and Fluid Power (FMFP 2021), BITS Pilani, Pilani Campus, Rajasthan, India, 12/2021.
10. Dhananjay Singh Yadav, Bireswar Paul., "Experimental Study Of Partially Premixed Biogas Flame On Co-Flow Burner", 48<sup>th</sup> National Conference on Fluid Mechanics and Fluid Power (FMFP-2021), BITS Pilani, Pilani Campus, Rajasthan, India, 12/2021.
11. Saddam Hossain Mullick, Debabrata Das Gupta, and Pranab Kumar Kundu, "Influence of Central Angle on Buoyancy Driven Thermal Flow Behaviours inside a Circular Porous Enclosure Heating from below", 26<sup>th</sup> National and 4<sup>th</sup> International ISHMT-ASTFE Heat and Mass Transfer Conference (IHMTTC 2021), IIT Madras, pp.1101-1106, 12/2021, Published by Begell House Inc.

12. Ajmit Kumar, Sanket Kumar and K. N. Pandey, "Life Prediction of Thermal Barrier Coated C3X Gas Turbine Blade of CMSX-4 Material", Proceeding of the Virtual ASME Gas Turbine Conference 2021, 12/2021.
13. R. Prabhu Sekar, R. Ravivarman and Gadi Anil, "Effect of Balanced sliding velocity and slide to roll ratio on surface wear in symmetric profile modified high contact ratio spur gears", 5<sup>th</sup> International and 20<sup>th</sup> National Conference on Machines and Mechanisms, IITDM Jabalpur, pp.1-8, 12/2021.
14. Arunesh Kumar Srivastava and K. N. Pandey, "Optimization of Processing Parameter for Optimal Performance of Dyneema HB-50 Composite", Second International Conference on Future Technologies 2021 (ICoFT 2021) in Manufacturing, Automation, Design, and Energy, NIT Puducherry, 12/2021.
15. Bireswar Paul & Hrituparna Paul, "Solar Radiation Prediction using Artificial Neural Network: A Comprehensive Review", 6<sup>th</sup> International Conference on Computational Intelligence in Data Mining (ICCIDM-2021), Aditya Institute of Technology and Management, K. Kotturu, Tekkali, Srikakulam District, Andhra Pradesh, 12/2021, Published by Springer.
16. Govind Murari, Binayaka Nahak & Tej Pratap, "Hybrid surface modification for improved tribological Performance of IC engine components—a review", International Conference on Thin-Film Processing & Application (ICTFPA - 2022), MATS University jointly with CEMMPRE-University of Coimbra, School of Sciences-University of Minho, and University of Johannesburg, pp.1-8, 02/2022, Published By Recomend for SAGE IMechE Part E: Journal of Process Mechanical Engineering (SCI).

#### Publication in National Conferences

1. Saddam Hossain Mullick, Debabrata DasGupta, and Pranab Kumar Kundu, "Entropy Generation inside a Tilted Air Saturated Porous Quadratic Enclosure", 48<sup>th</sup> National Conference on Fluid Mechanics and Fluid Power (FMFP 2021), BITS Pilani, 12/2021, Published by Springer.
2. Saddam Hossain Mullick, Aditya Prakash Ghosh, Debabrata Das Gupta and Pranab Kumar Kundu, "Comparative Study between Step and Sinusoidal Temperature Profiles during Natural Convection inside a Square Enclosure Heated from Bottom", 48<sup>th</sup> National Conference on Fluid Mechanics and Fluid Power (FMFP 2021), BITS Pilani, 12/2021, Published by Springer.

#### Reviewer in International Journals and Conferences

Sl. No.	Faculty Name	Journal Name
1.	Dr. Avanish Kumar Dubey	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 Optics and Laser Technology Advances in Engineering Software Materials and Manufacturing Processes Journal of Intelligent and Fuzzy Systems
2.	Dr. Bireswar Paul	India Section A: Physical Sciences Journal of Thermal Engineering National Conference on Internal Combustion Engines & Combustion



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|----|------------------------------|---|
| 3. | Dr. Jagadish Chandra Mohanta | Vision Based Virtual Force Guidance for Tele-robotics system<br>Computer Simulation and Dynamic Modelling of a Quadrupedal<br>Pronking Gait Robot with SLIP Model<br>Computers & Electrical Engineering   |
| 4. | Dr. K. N. Pandey             | Engineering Fracture Mechanics  |
| 5. | Dr. M.K. Khurana             | Journal of Advanced Manufacturing Systems<br>BLB International Journal of Science and Technology  |
| 6. | Dr. Manish Gupta             | Advances in Mechanical, Industrial, Automation and Management<br>Systems<br>International Journal of Procurement Management<br>International Journal of Operations and Production Management<br>International Journal of Logistics Systems and Management   |
| 7. | Dr. Manoj Kumar Gupta        | American Journal of Materials Engineering and Technology<br>International Journal of Physical Sciences<br>American Journal of Mechanical Engineering<br>Archives of Current Research International<br>Current Applied Polymer Science<br>Journal of Silicon<br>British Journal of Applied Science & Technology<br>International Journal of Technology<br>Advances in Materials & Processing Technologies<br>Plastics, Rubber and Composites: Macromolecular Engineering<br>Indian Journal of Fibre & Textile Research<br>Journal of Materials Science Research and Reviews<br>Biomaterials<br>Bulletin of Materials Science<br>Journal of Thermoplastic Composite Materials<br>Polymers for Advanced Technologies<br>Journal of Materials Processing Technology<br>Advances in Mechanical Engineering<br>Journal of Reinforced Plastics and Composites<br>International Journal of Ambient Energy<br>Materials Research<br>Polymer Composites<br>International Journal of Materials and Product Technology<br>Journal of the Chinese Advanced Materials Society<br>Nanotechnology Reviews |
| 8. | Dr. Pranab Kumar Kundu       | Sadhana<br>Journal of Associations of Engineers (I)<br>Journal of the Brazilian Society of Mechanical Sciences and<br>Engineering<br>Journal of Institution of Engineers(I): Series C<br>Materials Today: Proceedings<br>AIMTDR Conferences<br>Applied Sciences<br>SN Applied Sciences (SNAS)<br>Physics of Fluids<br>IHMTTC-2021<br>FMFP-2021  |
| 9. | Dr. Praveen Kumar Agrawal    | Mechatronics  |

- Third International Conference on Advances in Control and Optimization of Dynamical Systems  
Transactions of the Institute of Measurement and Control  
International Journal of Dynamics and Control  
Expert Systems With Applications  
Mechanism and Machine Theory
10. Dr. R. Prabhu Sekar  
11. Dr. Rahul Dev  
Energy  
Solar Energy  
3<sup>rd</sup> International Conference on "Recent Advances in Materials Manufacturing and Thermal Engineering (RAMMTE-2022)  
International Journal of Machining and Machinability of Materials
12. Dr. Rajeev Srivastava  
13. Dr. Ravi Prakash  
Applied Energy  
Building Simulation  
Energy  
Energy and Buildings  
Energy for Sustainable Development  
Environment, Development and Sustainability  
Environmental Impact Assessment Review  
Frontiers of Environmental Science and Engineering  
Journal of Housing and Built Environment  
Open Journal of Energy Efficiency(OJEE)  
Research Journal of the University of Mauritius  
Science in Society  
Sustainability: International Journal of Environmental, Cultural, Economic and Social Sustainability  
Sustainable Cities and Society
14. Dr. Samir Saraswati  
Mathematical and Computer Modelling of Dynamical Systems  
Neural Computing and Applications  
International Journal of Engine Research  
Chemical Engineering Science  
International Journal of Modeling Identification and Control  
Biofuels
15. Dr. Shantanu Srivastava  
16. Dr. Suryanarayan B. Mishra  
International Journal of Thermodynamics  
Materials and Design  
High Temperature Materials and Processes  
Acta Metallurgica Sinica  
Journal of Materials Engineering and Performance  
3<sup>rd</sup> Indian Conference on Applied Mechanics
17. Dr. Swastik Acharya  
18. Dr. Tej Pratap  
Brazilian Journal of Chemical Engineering  
Elsevier International Journal of Materials Processing Technology  
International Journal of Mechanical Sciences  
Journal of Manufacturing Science and Engineering  
Journal of Micromanufacturing  
Journal of The Indian Chemical Society  
Materials Research Express  
Proceedings of the Institution of Mechanical Engineers, Part E:  
Journal of Process Mechanical Engineering  
Sadhana  
Surface and Coatings Technology  
Surface Topography: Metrology and Properties

19.	Dr. Vineed Narayan	Journal of Thermal Analysis and Calorimetry Environmental Science and Pollution Research AIMTDR, Conference Journal of Materials Science Materials Today: Proceedings
20.	Dr. Jitendra Narayan Gangwar	Fuel Biofuels
21.	Dr. Sunil Kumar Gupta	International Journal of Adhesion and Adhesives Mechanics of Composite Materials Polymer and Polymer Composites

### Book(s)/Book(s) Chapter(s) Authored

Sl. No.	Faculty Name	Book	Book Chapter	Publisher
1.	T. Pratap & K. Patra	Advanced Machining and Finishing	Micro-nano Surface Texturing, Characterization and Their Impact on Bio-interfaces	Elsevier Inc.
2.	Shivam and Manish Gupta	Recent Advances in Smart Manufacturing and Materials. Lecture Notes in Mechanical Engineering	Research Opportunities in Industry 4.0: A Literature Review	Springer, Singapore
3.	Abhishek Gaikwad, Kishore Debnath, and M. K. Gupta	Advances in Machining of Composite Materials	Nano-structured Polymer-Based Composites	Springer
4.	S. K. Patel, A. Pratap, P. Sahoo, B. Nahak & T. Pratap	Next Generation Materials and Processing Technology-its Advances & Constraints	Cutting Force Analysis in Micromilling of Al6061-SiCp Composite	Springer Nature Singapore Pte Ltd.
5.	R. N. Gupta, A. P. Harsha & T. Pratap	Green Tribology: Emerging Technologies & Applications	Nano-technology-driven Interventions in Bio-lubricants Tribology for Sustainability	CRC Press: Taylor & Francis Group
6.	K. Tewari & R. Dev	Recent Advances in Manufacturing, Automation, Design & Energy Technologies, Book Series: Lecture Notes in Mechanical Engg. (2022)	Comparative Enviro-Economic Analysis of Transparent Water Heating Systems and Conventional Systems	Springer Singapore
7.	Bireswar Paul & Hrituparna Paul.	Computational Intelligence in Data Mining	Solar Radiation Prediction using Artificial Neural Network: A Comprehensive Review	Springer Nature

### Invited Lectures Delivered

- Lecture delivered by Dr. Avanish Kumar Dubey at AICTE-ISTE sponsored online Induction/ Refresher program on Sustainable Product Design and Manufacturing, SMVD University, Jammu on 19/04/2021 entitled Sustainability Issues in Advanced Machining.
- Lecture delivered by Dr. Y. G. Bala at Anna University Sponsored Online- Six Day Faculty Development & Training Programme on "ME
- Lecture delivered by Dr. Avanish Kumar Dubey at AICTE sponsored online short term training program on Advances in Manufacturing Systems, MITS Gwalior, M.P. on 25/06/2021

- entitled Evolution of Advanced Machining Processes.
4. Lecture delivered by Dr. Rahul Dev at One Week Online Faculty Development Program on Recent Innovative Developments in Thermal Engineering (RIDTE-2021) (28<sup>th</sup> June–3<sup>rd</sup> July, 2021), MED, Malla Reddy Engineering College Maisammaguda, Dhulapally, Medchal-Malkajgiri, Telangana on 28/06/2021 entitled Solar Thermal Applications.
  5. Lecture delivered by Dr. Rahul Dev at Tarunotsav (June 26-30, 2021) for class X, Kendriya Vidyalaya, Aliganj, Lucknow on 30/06/2021 entitled Motivational & Professional Talk (Online).
  6. Lecture delivered by Dr. Tej Pratap at One Week Faculty Development Program (FDP) on Recent Trends in Mechanical Engineering (RTME 2021), Jointly Organised by ICFAI University Jaipur in Association with IET (UK) Delhi Local Network, India on 23/07/2021 entitled Advancement in Micro-nano Fabrication and its Applications.
  7. Lecture delivered by Mr. Sunil Kumar Gupta at TechNXT Association, on 21/08/2021 entitled Joining of Materials using Polymer Nano-composite Adhesive.
  8. Lecture delivered by Dr. Pranab Kumar Kundu at short-term course on Nanoinformatics for Biomedical Applications (NBA-2021), IIIT Allahabad on 28/08/2021 entitled Construction of Microfluidic Systems to be used in biomedical applications.
  9. Lecture delivered by Dr. K. N. Pandey at A one week Faculty Development Programme (FDP) on "Advancement in Mechanical Engineering (AME)", Raj Kumar Goel Institute of Technology, Ghaziabad-India, on 10/09/2021 entitled Life prediction of a turbine blade of CMCX4 material.
  10. Lecture delivered by Dr. Avanish Kumar Dubey at AICTE sponsored online short term training program on Advances in Manufacturing Systems, MITS Gwalior, M.P. on 20/09/2021 entitled Evolution of Advanced Machining Processes.
  11. Lecture delivered by Dr. Avanish Kumar Dubey at AICTE sponsored online ATAL-FDP program on Advances in Micro-Manufacturing, BIET Jhansi, U.P. on 25/09/2021 entitled Laser Micro-Manufacturing.
  12. Lecture delivered by Dr. Jagadish Chandra Mohanta at AICTE Sponsored One Week Online STTP on Advances in Manufacturing Systems, MITS, Gwalior on 25/09/2021 entitled Robotics: Past, Present and Future.
  13. Lecture delivered by Dr. Bireswar Paul at Short Term Course, LDC institute of Technical studies on 07/10/2021 entitled Recent Emerging Trends in Science, Engineering and Management (RETSEM-2021).
  14. Lecture delivered by Dr. Avanish Kumar Dubey at webinar, Mahendra Engineering College (Autonomous)- Namakkal, Tamilnadu on 24/11/2021 entitled Evolution of Advanced Machining Processes.
  15. Lecture delivered by Dr. Rahul Dev at five-day virtual mode Faculty Development Program (FDP) from November 29- December 03, 2021, Departments of Mechanical Engineering and Electrical & Electronics Engineering, Aditya Engineering College (A), Surampalem, Andhra Pradesh, India on 01/12/2021 entitled Recent Advancement & Research Opportunities in the Solar Energy Sector.
  16. Lecture delivered by Dr. Rahul Dev at AICTE-ISTE sponsored one week online Induction/ Refresher Programme on "Solar Energy in the Present Era" from 24<sup>th</sup>-31<sup>st</sup> December 2021, MED, BIT, Durg, Chhattisgarh India-491001 on 30/12/2021 entitled Climate Change and the Importance of Solar Energy.
  17. Lecture delivered by Dr. Pranab Kumar Kundu at FDP (online) on "Emerging Trends in Thermal Engineering (ETTE2021)", MED, PVP Siddhartha Institute of Technology on 31/12/2021 entitled MEMs Fabrications for constructing microfluidic systems.
  18. Lecture delivered by Dr. Rahul Dev at Two weeks Short Term Training Program (STTP) on "Alternative Energy Sources for Sustainable Development" during January 3-14, 2022 through online mode, Department of Mechanical, Production & Industrial and Automobile Engineering, Delhi Technological University, Delhi on 06/01/2022 entitled "Solar Energy: An

- Alternate and Sustainable Way for Various Applications".
- Lecture delivered by Dr. Y. G. Bala at SERB sponsored High End Workshop (kaaryashala) under Accelerate Vigyan scheme on 5-Axis CNC machine, Mechanical Engineering Department/ NIT Srinagar on 08/03/2022 entitled Tooling System in 5-Axis CNC.
  - Lecture delivered by Dr. Tej Pratap at Invited Talk Followed by Hands on Training, University of Johannesburg (Doornfontein Campus)

Doornfontein-2028 Johannesburg (South Africa) on 28/03/2022 entitled Micro-fabrication Processes, Optimization, Surface characterization and Applications.

#### Expert/Invited Lectures Organized

- A lecture is delivered by Dr. Pradip Bhattacharjee, DGM, NTPC Korba, Chattisgarh, Employee Development & Training Center NTPC Korba, Chattisgarh on 29/09/2021 entitled Generating Electricity from Coal.

#### Events Organized by Department

Sl. No.	Name	Title	From	To
1.	International Conference	Advances in Management and Technological Innovations: Impacting Industries-III, SMS, MNNIT Allahabad	20.04.2021	22.04.2021
2.	परिचर्चा (Paricharcha)	"मातृभाषा में तकनीकी शिक्षा", यांत्रिकी अभियंत्रण विभाग, मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान	28.09.2021	28.09.2021

#### Events Attended

- Dr. Rahul Dev attended One Week Short Term Training Program (Online) on Role of Renewable Energy Sources in Indian Energy Security (RORES-2021) at Department of Mechanical,

Production & Industrial and Automobile Engineering (Centre for Energy & Environment), Delhi Technological University (Online) during 05/07/2021 to 10/07/2021.

#### Research Projects Completed/Ongoing

Sl. No.	Principal Investigator /Co investigator(s)	Project Title	Funding Agency	Amount (INR)	Duration
1.	Mr. Binayaka Nahak (Co-PI)	Optimal parameter setting & experimental characterization of tubular component using warm hydro-forming	National Project Implementation Unit (NPIU), A unit of Ministry of Education, Govt. of India for implementation of World bank assisted Projects in technical education (TEQIP Collaborative Research	Rs.13.83 Lakhs	Ongoing
2.	Dr. Pranab Kumar Kundu (PI)	An Affordable Diagnostic Instrument: CoIOSENS	Department of electronics & information technology, Govt. of India	Rs.28.32 Lakhs	Ongoing
3.	Dr. Mukul Shukla (Co-PI)	Hybrid composite for light weight impact resistant helmet	NPIU-TEQIP	Rs.17.7 Lakhs	Ongoing
4.	Dr. Manish Gupta (PI)	"Development of aluminium based syntactic metal foam with shape memory alloy and metal reinforcement assisted with self-healing capability for structural	CSIR, India under CSIR-HRDG-EMR Session-I	Rs.25.43 Lakhs	Ongoing

		applications" (Proposal Submitted)			
5.	Dr. Pranab Kumar Kundu (PI)	USHA: Urine Sense towards Health Analysis of kidney	Indian Council of Medical Research (ICMR)	Rs.10.00 Lakhs	Ongoing
6.	Dr. Praveen Kumar Agrawal (Co-PI)	Point-of-care AI technology based X-ray imaging device for automated early diagnosis of viral respiratory diseases	Department of Science and Technology under Biomedical Device and Technology Development Programme	Rs.51.6 Lakhs	Ongoing
7.	Dr. J. C. Mohanta (PI)	Quadcopter Application for Line Inspection of Power Transmission Lines	DST-ICPS, New Delhi	Rs.24.12 Lakhs	Ongoing
8.	Dr. Manoj Kumar Gupta (PI)	Green composite prepared by waste sugarcane bagasse and poly lactic acid (PLA) for packaging applications	CST, U.P.	Rs.11.40 Lakhs	Completed on 06/2021
9.	Dr. K. N. Pandey (PI)	Life prediction of turbine blades under coated and uncoated conditions	ARDB	Rs.24.33 Lakhs	Completed on 02/2022
10.	Dr. Audhesh Narain (PI)	Development and Performance Study of Milling Electro-Chemical Spark Micromachining Process	Council of Science and Technology, U.P.	Rs.7.80 Lakhs	Completed on 03/2022

### 9.13 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 1101)
2. Physics II (PH1202)
3. Physics Lab (PH1151)
4. Physics Lab (PH1251)
5. Ph. D. Courses

#### Courses in which students were admitted during 04/2021 - 03/2022:

1. Ph.D.

#### List of Ph.D. Thesis Completed

Sl.No.	Name of Student	Reg. No.	Thesis Title	Thesis Supervisor(s)
1.	Dr. Anil Kumar	2017RPH04	Wet-Chemical Synthesis & Characterizations of Some Electrochromic Transition Metal Oxide Thin Films for Smart Window Applications	Dr. P. P. Sahay

#### Publication in International Journals

1. Mohit Sahni, Sabyasachi Mukhopadhyay, R. M. Mehra, Sunil Chauhan, Prakash Chandra Sati, Manish Kumar, Munendra Singh, Naresh Kumar,

"Effect of Yb/Co co-dopants on surface chemical bonding states of BiFeO<sub>3</sub> nanoparticles with promising photocatalytic performance in dye degradation", Journal of Physics and Chemistry



- of Solids Volume, vol.152, pp.109926 pp1, 05/2021, Published by Elsevier. (SCI, IF=4.393)
2. Vivek Chaudhary, Rajiv Kumar Pandey, Rajiv Prakash, Naresh Kumar and Arun Kumar Singh, "Unfolding Photophysical Properties of Poly (3-hexylthiophene)-MoS<sub>2</sub> Organic-Inorganic Hybrid Materials: An Application to Self-Powered Photodetectors", *Nanotechnology*, vol.32, Issue 38, pp.385201, 06/2021, Published by IOP Science. (SCI, IF=3.953)
  3. P. P. Sahay, "Galvanostatically deposited Co<sub>3</sub>O<sub>4</sub>-NiO nanocomposite thin films onto FTO glass substrates: An investigation of their microstructural and supercapacitive properties", *Journal of Alloys and Compounds*, vol.867, pp.159022, 06/2021, Published by Elsevier. (SCI, IF = 6.371)
  4. Ramgopal Agrawal, Akhilesh Pandey and Ravi Prakash, "Direct product of random unitary matrices: Two-point correlations and fluctuations", *Phys. Rev. E*, vol.104, Issue 3, pp.034208-1 t, 09/2021, Published by American Physical Society. (SCI, IF=2.707)
  5. M. Sahni, S. Kumar, S. Chauhan, M. Singh, S. Pandit, P. C. Sati, M. Kumar, A. Kumar, Naresh Kumar, "Structural, optical and photocatalytic properties of Ni doped BiFeO<sub>3</sub> nanoparticles", *Materials Today: Proceedings*, vol.49, Issue 8, pp.3015-3021, 01/2022, Published by Isevier Ltd. (Scopus, IF=1.24)
  6. M. Bohra, R. Arras, J. F. Bobo, V. Singh Naresh Kumar, H. Chou, "Multiple spintronic functionalities into single zinc-ferrous ferrite thin films", *Journal of Alloys and Compounds*, vol.895, Issue 1, pp.162425, 02/2022, Published by Elsevier B.V. (SCI, IF=6.371)
  7. Aradhana Tiwari & P. P. Sahay, "Modification in the physical properties of nanocrystalline ZnO thin films by Sn/Ni co-doping for transparent conductive oxide applications", *Physica B: Physics of Condensed Matter*, vol.629, pp. 413638, 03/2022, Published by Elsevier. (SCI, IF = 2.436)

#### Reviewer in International Journals and Conferences

Sl. No.	Faculty Name	Journal Name
1.	Dr. Animesh Kumar Ojha	Journal of Materials Science and Engineering B Applied Surface Science Journal of Alloys and Compounds Journal of Photochemistry and photobiology A: Chemistry Journal of Physical Chemistry C Journal of Raman Spectroscopy Materials Chemistry and Physics Nanotechnology RSC Advances Spectrochimica Acta Vibrational Spectroscopy
2.	Dr. Naresh Kumar	Journal of Electronic Materials Applied Physics Letters International Conference on "Computing Applications in Electrical & Electronics Engineering Journal of Alloys and Compounds Journal of Applied Physics Journal of Electronic Materials Journal of Magnetism and Magnetic Materials Journal of Materials Science: Materials in Electronics
3.	Dr. P. P. Sahay	ACS Omega Chemical Engineering Journal Chemical Physics Letters Iranian Journal of Science and Technology, Transactions A: Science

	Journal of Alloys and Compounds
	Journal of Physics and Chemistry of Solids
	Journal of Vacuum Science & Technology B
	Materials Chemistry and Physics
	Materials Research Bulletin
	Materials Science in Semiconductor Processing
	Optical Materials
	Sensors & Actuators: B. Chemical
	Sensors and Actuators B
	Superlattices and Microstructures
	Thin Solid Films
4. Dr. Ravi Prakash	Journal of Physics A: Mathematical and Theoretical
5. Dr. S. N. Pandey	International Journal of Nanoscience and Nanotechnology
	Quantum Information Processing

#### Invited Lectures Delivered

- Lecture delivered by Dr. P. P. Sahay at Faculty Development Program on Energy Storage: Science & Technology, Dept. of Physics, MNNIT Allahabad sponsored by AICTE Training and Learning (ATAL) on 22/09/2021 entitled Transition Metal Oxide Based Pseudocapacitors –An Energy Storage Device.
- Lecture delivered by Dr. Naresh Kumar at Faculty Development Program on Energy Storage: Science & Technology, organized under the aegis of AICTE Teaching and Learning (ATAL), Coordinator, ATAL on 24/09/2021 entitled Pulsed laser deposition/ablation: Synthesis of nanomaterials & Thin Films for energy storage.
- Lecture delivered by Dr. P. P. Sahay at Short-term course (STC) under QIP on 'Advanced Materials for Environmental Sensors', Indian Institute of Technology Indore on 08/03/2022 entitled Semiconducting Metal Oxides for Chemical Gas Sensors.

#### Research Projects Completed/Ongoing

Sl. No.	Principal Investigator /Co investigator(s)	Project Title	Funding Agency	Amount (INR)	Duration
1.	Dr. Naresh Kumar (PI)	Development of ferrite-semiconductor composite hollow nano spheres based sensors for enhanced bio & gas sensing performance.	CSIR	Rs.16.00 Lakhs	Ongoing
2.	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)	Rs.11.42 Lakhs	Ongoing

#### Other Relevant Information

- Dr. Naresh Kumar received Served as Session Chair in "4<sup>th</sup> International Conference on Science & Engineering of Materials-ICSEM2021" organized by Sharda University Greater Noida on 07/2021.

#### 9.14 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. M.B.A.
2. PhD.

**Courses in which students were admitted during 04/2021 - 03/2022:**

1. M.B.A.
2. Ph.D.

**List of Ph.D. Thesis Completed**

Sl.No.	Name of Student	Reg. No.	Thesis Title	Thesis Supervisor(s)
1.	Rosangpuii Hmar	2017RMS04	The Inter-dynamics of Macro and Micro Determinants of Entrepreneurship Development: A Case Study of Mizoram State	Prof. Geetika
2.	Rahul Bodhi	2016RMS04	Social Media Usage And Its Impact On Employee Performance And Well-Being In The Context Of It Industry In India	Dr. Tripti Singh
3.	Naveen Kumar Singh	2016RMS03	Developing a Model for Effective Adoption of Mobile Payment Systems in India	Prof. G. P. Sahu

**Total No. of M.Tech. Thesis Completed in School of Management Studies : 44**

**Publication in International Journals**

1. R. Singh, Geetika, P. Ghosh and S. Sinha, "Mergers in Indian Public Sector Banks: Can Human Resource Practices Ensure Effective Implementation of Change", Management Decision, vol.60, Issue 3, pp.606-633, 05/2021, Published by Emerald Insight. (SCI)
2. R. Hmar, G. Goel, & N. Tiwari, "Entrepreneurship in a protected region with limited infrastructure: a study of Mizoram State in India", International Journal of Business Excellence, vol. 27, Issue 2, pp.accepted, 05/2021, Published by Inderscience. (Scopus)
3. R. Singh, Geetika and P. Ghosh, "People-centric Interventions in Change Implementation: An Analysis of Change Models: An Analysis of Change Models", Organization Development Journal, 12/2021, (Scopus)
4. T. Nandan, M. Agrawal & R. K. Soni, (2022). Tweets analytics for directional prediction of stock market movement: A Short window event study. International Journal of Intelligent Enterprise. Inderscience in press. Print ISSN: 1745-3232; Online ISSN: 1745-3240.

5. Y. Dwivedi, T. Nandan & P. R. Agrawal (2022), The Pricing Behaviour on Buying-back IT Companies' shares in India. Journal of Positive School Psychology, 6(2), 5280-5288. Online ISSN: 2717-7564.
6. A. Pandey & T. Nandan (2022), Supply Chain Barriers for Electric Vehicles and their Mitigation Strategies: A Systematic Literature Review. International Journal of Electric and Hybrid Vehicles. Inderscience. In press. Print ISSN: 1751-4088; Online ISSN: 1751-4096.
7. G. P. Sahu, P. Singh & P. Dwivedi, "Adoption of solar energy in India: a study through interpretive structural modelling", World Journal of Science, Technology and Sustainable Development, 07/2021, Published by Emerald Insight.
8. Chhaya Mani Tripathi, Tripti Singh "Sailing through the COVID-19 pandemic: managing expatriates' psychological well-being and performance during natural crises", Journal of Global Mobility, vol. 10, Issue 2, pp192-208 Published by Emerald Insight. (IF=2.2)
9. Chhaya Mani Tripathi & Tripti Singh "An Empirical Analysis of the willingness for expatriate assignment; the role of career motivation and parental support" SCMS Journal of Indian Management, Vol. 18 Issue 4, p112-126. 15p, Published by SCMS. (IF=0.4)

10. S. Mishra & V. Tripathi, "Theoretical framework on state-of-the-art sales ethics in marketing", *International Journal of System Assurance Engineering and Management*, vol.13, pp.57–78, 08/2021, Published by Springer. (Scopus, IF=1.8)
11. V. Tripathi, A. Khare & S. Saurabh, "Attitudinal Segmentation of Mobile Banking Users: A Perspective on Continuance Intention", *Productivity*, vol.62, Issue 3, pp.209-224, 10/2021.
12. Marianna Sigala, Satish Kumar, Naveen Donthu, Riya Sureka, Yatish Joshi, "A bibliometric overview of the Journal of Hospitality and Tourism Management: Research contributions and influence", *Journal of Hospitality and Tourism Management*, vol.47, Issue 3, pp.273-288, 04/2021, Published by Elsevier. (SCI, IF= 5.959)
13. Yatish Joshi, Dwarika Prasad Uniyal, Deepak Sangroya, "Investigating consumers' green purchase intention: Examining the role of economic value, emotional value and perceived marketplace influence", *Journal of Cleaner Production*, vol.328, pp.129638, 12/2021, Published by Elsevier. (SSCI, IF = 11.072)
14. Giampaolo Viglia, Satish Kumar, Nitesh Pandey, Yatish Joshi, "Forty years of The Service Industries Journal: a bibliometric review", *The service industries journal*, vol.42, Issue 1-2, pp.1--20, 01/2022, Published by Taylor & Francis. (SSCI, IF = 9.405)
15. Deepak Sangroya, Rambalak Yadav, Yatish Joshi, "Does gamified interaction build a strong consumer-brand connection? A study of mobile applications" *Australasian Journal of Information Systems*, vol. 25, pp.1–23, 11/2021, Published by Australian Computer Society (Scopus)
16. Yatish Joshi, Rambalak Yadav, Amit Shankar, "The interplay of emotional value, trend affinity and past practices in sustainable consumption: an application of theory of reciprocal determinism". *Journal of Strategic Marketing*, 04/2021, Published by Taylor & Francis. (Scopus)
17. Rakesh Kumar, Shalini Shukla, "Entrepreneurial intention for social cause: Role of moral obligation, contextual support and barriers", *International Journal of Business and Globalisation*, vol.24, Issue 8, pp.367-387, 08/2021, Published by Inderscience Publications. (Scopus)
18. Shalini Shukla, Rakesh Kumar, Shailesh Kumar Kaushal, "Effect of gender and prior exposure to family business on entrepreneurial intentions: Empirical evidences from India.", *Journal of Asia Entrepreneurship and Sustainability*, vol.17, Issue 7, pp.51-72, 12/2021, Published by Ross Smith Academic Publications.
19. Kishore Kumar, Hari Prapan Sharma, Waseem Khan, Rakesh Kumar, "Factors influencing adoption of green banking practices: Evidence from commercial banks in India.", *Journal of Asia Entrepreneurship and Sustainability*, vol.18, Issue 1, pp.41-57, 02/2022, Published by RossiSmith Academic Publications.
20. R. Kumar & S. Shukla (2022). Creativity, Proactive Personality and Entrepreneurial Intentions: Examining the mediating role of Entrepreneurial Self-efficacy. *Global Business Review* (Sage Publications), 23(1), 101-118. <https://doi.org/10.1177/0972150919844395> Indexing: Scopus, ESCI, ABDC. (C List)
21. R. Kumar, & V. Tripathi, (2022). Green Advertising: Examining the role of celebrity credibility using SEM Approach. *Global Business Review* (Sage Publications), 23(2), 440-459. <https://doi.org/10.1177/0972150919862660> Indexing: Scopus, ESCI, ABDC. (C List)
22. K. Kumar, R. Kumari, M. Nandy, M. Sarim & R. Kumar, (2022), "Do ownership structures and governance attributes matter for corporate sustainability reporting An examination in the Indian context", *Management of Environmental Quality*, Vol. 33 No. 5, pp. 1077-1096, <https://doi.org/10.1108/MEQ-08-2021-0196> (Scopus, ABDC "C" List)
23. Kishore Kumar, Ranjita Kumari and Rakesh Kumar, "The state of corporate sustainability reporting in India: Evidence from environmentally sensitive industries." *Business and Society Review* 126, no. 4 (2021): 513-538. (Scopus, ABDC "C" List)

24. Kishore Kumar, Ranjita Kumari, Archana Poonia and Rakesh Kumar. "Factors influencing corporate sustainability disclosure practices: empirical evidence from Indian National Stock Exchange." *Journal of Financial Reporting and Accounting* (2021). <https://doi.org/10.1108/JFRA-01-2021-0023>. (Scopus, ABDC "C" List)

#### Publication in International Conferences

1. Vibhuti Tripathi & Tarunija Chandra, "The Impact of Brand Revitalization Strategies on Revival of Skin Care Product Category with reference to Boroline: The mediating role of Integrated Marketing Communications", 7<sup>th</sup> Biennial Conference of INDAM, IIM Rohtak, 01/2022, Published by IIM Rohtak.

#### Reviewer in International Journals and Conferences

Sl. No.	Faculty Name	Journal Name
1.	Dr. Geetika	Globalisation, Societies and Education Journal of Entrepreneurship; in Emerging Economies FIIB Business Review
2.	Dr. Ganesh Pd. Sahu	International Journal of E-Governance International Journal of E-Government Research The Annual Americas Conference on Information Systems (AMCIS) International Journal of Information Management Americas Conference on Information Systems (AMCIS) Information Systems and e-Business Management
3.	Dr. Somen Dey	Opsearch Management of Environmental Quality
4.	Dr. Tanuj Nandan	International Journal of Industrial and Systems Engineering (IJISE) 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
5.	Dr. Tripti Singh	Journal of Humanitarian Logistics and Supply Chain Management Benchmarking: An International Journal
6.	Dr. Vibhuti Tripathi	International Journal of Consumer Studies FIIB Business Review

#### Book(s)/Book(s) Chapter(s) Authored

Sl. No.	Faculty Name	Book	Book Chapter	Publisher
1.	Tripathi, V. & Mishra, A.	Sustainable Marketing	Can Captive Banking Behaviour Propel Habit: Study of Online Banking during COVID-19	K. K. Publication
2.	Tripathi, V. & Mishra, S.	Sustainable Marketing	Clustering Luxury Market: Profiling Indian Consumers	K. K. Publication
3.	Tripathi, V. & Chandra, T.	Sustainable Marketing	Resurrection of Vicco: A case study towards understanding Brand Revitalization	K. K. Publication
4.	Somen Dey and Abhishek Das	Computational Management. Modeling and Optimization in Science & Technologies	Forecasting Long-term Electricity Demand: Evolution from Experience-Based Techniques to Sophisticated Artificial Intelligence (AI) Models.	Springer



### Invited Lectures Delivered

1. Lecture delivered by Dr. Geetika at ATAL Programme, Central University of Rajasthan, Kishanganj on 20/05/2021 entitled Human Values and Ethics for Academic Excellence.
2. Lecture delivered by Dr. Geetika at week long ATAL programme, NIT Jamshedpur on 12/06/2021 entitled Social Enterprises'.
3. Lecture delivered by Dr. Vibhuti Tripathi at United University on 25/02/2022 entitled Fundamentals of Research Methodology & Current Research Trends.
4. Lecture delivered by Dr. Yatish Joshi at, National Institute of Technology, Rourkela on 12/01/2022 entitled AICTE sponsored faculty development program on "Sustainable Business Eco-System: ESG Reporting".
5. Lecture delivered by Dr. Yatish Joshi at, Centre for Management Studies, North-Eastern Regional Institute of Science & Technology, Nirjuli, Arunachal Pradesh on 18/08/2021 entitled AICTE sponsored short term training program on "Research Methodology and Data Analysis".
6. Lecture delivered by Dr. Rakesh Kumar at Department of Humanities and Management Science, Madan Mohan Malviya University of Technology, Gorakhpur on 29/04/2021 entitled 'Data Analysis using MS Excel'.
7. Lecture delivered by Dr. Rakesh Kumar at GGES Education Group, Unnao on 06/06/2021 entitled Marketing in 21<sup>st</sup> Century: Opportunities & Challenges.
8. Lecture delivered by Dr. Rakesh Kumar at School of Management, Doon University, Dehradun (Uttarakhand) on 02/08/2021 entitled Correlation and Regression.
9. Lecture delivered by Dr. Rakesh Kumar at Human Behavtics Pvt. Ltd on 29/08/2021 entitled Multiple Regression and Discriminant Analysis.
10. Lecture delivered by Dr. Rakesh Kumar at Sikkim University on 01/09/2021 entitled Improving Personal Effectiveness on Workshop.
11. Lecture delivered by Dr. Rakesh Kumar at National Service Scheme (NSS) Madan Mohan Malviya University of Technology, Gorakhpur on 03/09/2021 entitled Managing Stress and Anxiety during Covid-19 Pandemic.

### Expert/Invited Lectures Organized

Sl. No.	Name	Organization	Topic
1.	Mr. Manoj Paliwal	Wipro Limited	Management Skills & Time Utilization
2.	Dr. Vinod Kumar	IIIT Lucknow	Website Analytics
3.	Mr. Manish Mishra	LeEco	Programmatic Buying
4.	Mr. Partha Sen	Avyay	AI in Digital Marketing
5.	Mr. Mehul Shah	Salesmate	Search Engine Optimization
6.	Dr. Arun Kumar Kaushik	IIM Amritsar	Scale Development in Management Science Research
7.	Dr. Amit Kumar Agarwal	IIIT Naya Raipur	Systematic Literature Review in Management Science Research
8.	Dr. Rambalak Yadav	IMT Hyderabad	Editors Perspective
9.	Dr. Deepak Sangroya	Jindal Global Business School	Digital Business Model
10.	Mr. Dhananjay Singh (IRS)	Asst Commissioner, Vadodra	Thoughts on Public Finance, Trade & Technology during COVID-19 Pandemic
11.	Dr. Ashutosh Pandey	Tays Private Limited	Mobile Marketing
12.	Dr Rameshwar Dubey	Liverpool Business School, Liverpool John Moores University	Big Data and Predictive Analytics
13.	Dr Gary Graham	Leeds University Business School, University of Leeds	Big Data and Predictive Analytics
14.	Mr. Nitin Kalara	ALQIMI	Business Analytics
15.	Prof. Yogesh Dwivedi	Professor, Swansea University UK	Block Chain, Case study on Block chain



16.	Prof. Ravi Srivastava	JNU New Delhi	Indian economy reform packages and its implication for the industry
17.	Prof. Kishore Kumar Das	Dept. of Statistics, Assam University	Application of Statistics in Management
18.	Dr. Priyanka Sharma	IIM Lucknow	Marketing Analytics
19.	Dr. Gaurav Kabra	NITIE Mumbai	Analytics in Supply Chain Management
20.	Mr. Pritam Dutta	Aheuser-In Bev, Bangalore	Digital Transformation its challenges and application
21.	Mr. Dheer Singh	Bharti Airtel UP East Lucknow	Marketing through Telecom Lens
22.	Mr. Dhananjay Singh	IRS Asst. Commissioner GST Ministry of Finance	Thoughts on public finance trade in technology during Covid 19 pandemic
23.	Mr. Rakesh Chopra Mentor & Director	ICON Techno Cloud Pvt. Ltd.	Business Analytics and Its Application in Management
24.	Abha Uday Sawant	Sameer Telang	Mutual Fund Expert Speak
25.	Darshana Rampuria	Mr. Mukul Mishra	Awareness Program in Money Management
26.	Lakhpat Singh	EBSCO	EBSCO Workshop

#### Events Organized by Department

Sl. No.	Name	Title	From	To
1.	International conference	3 <sup>rd</sup> ICAMT-III (Online) 'Advances in Management and Technological Innovations: Impacting Industries', SMS, MNNIT Allahabad, Prayagraj	19.04.2021	21.04.2021
2.	Short Term Training Program	Online Teaching and Learning Technologies, MNNIT Allahabad	14.06.2021	18.06.2021
3.	Workshop	Fundamentals of Digital Marketing, SMS, MNNIT Allahabad, Prayagraj	21.10.2021	30.10.2021

#### Events Attended

- Dr. Yatish Joshi attended Data Science Summer School at Hertie School Data Science Lab during 09/07/2021 to 30/07/2021.
- Dr. Rakesh Kumar attended International conference on 3<sup>rd</sup> ICAMT-III (Online) 'Advances in Management and Technological Innovations: Impacting Industries' at SMS, MNNIT Allahabad, Prayagraj during 19/04/2021 to 21/04/2021.
- Dr. Rakesh Kumar attended International Conference on Global Conference on Innovations in Management and Business at NIT Warangal, Chapman University of California and Howard University of Washington D.C. during 27/07/2021 to 28/07/2021
- Dr. Somen Dey attended Online Global Certification Course on Business and Operations Analytics (Instructors: Prof. M. K. Tiwari, Director NITIE Mumbai and Prof. David Simchi-Levi, Professor MIT USA) at NITIE Mumbai during 03/07/2021 to 05/07/2021.
- Dr. Somen Dey attended Faculty Development Program on Emerging Issues and Recent Advancements in Demand & Supply Chain Management (Online) at IMS, BHU during 07/01/2022 to 11/01/2022.
- Dr. Somen Dey attended Online Global Certification Course on Social Network Analysis (Instructor: Prof. Noshir Contractor, Professor, Kellogg School of Management Northwestern University) at NITIE Mumbai during 12/01/2022 to 02/03/2022.

**Research Projects Completed/Ongoing**

Sl. No.	Principal Investigator /Co investigator(s)	Project Title	Funding Agency	Amount (INR)	Duration
1.	Dr. Ganesh Pd. Sahu (PI)	Seven million Solar Urja Lamps (SoUL) through Localization of Solar Energy project	MNRE through IIT Bombay	Rs. 281 Lakhs	Ongoing
2.	Dr. Ganesh Pd. Sahu (PI)	National Mission Project on Pedagogy	NME-ICT, MoE, Govt. of India (through IIT Kharagpur)	Rs. 7.00 Lakhs	Ongoing
3.	Dr. Geetika (PI)	Multi-partnership Model of Self-sustainable Shelters for Urban Homeless Poor	HUDCO-HSMI New Delhi	Rs.16.00 Lakhs	Ongoing
4.	Dr. Ganesh Pd. Sahu (PI)	GIAN Phase I and II	MoE	Rs.174.08 Lakhs	Ongoing
5.	Dr. Ganesh Pd. Sahu (PI)	Aakash Project	NME-ICT, MoE, Government of India (through IIT Bombay)	Rs. 6.00 Lakhs	Ongoing
6.	Dr. Ganesh Pd. Sahu (PI)	Teach 10000 Teachers (T10KT) NME-ICT Remote Centre	NME-ICT, MoE, Government of India (through IIT Bombay)	Rs.7.50 Lakhs (module wise funding)	Ongoing
7.	Dr. Ganesh Pd. Sahu (PI)	Developing a Model for Effective Adoption of Solar Energy Systems in India	IMPRESS, ICSSR New Delhi	Rs. 12.6 Lakhs	Ongoing



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**FINANCIAL AND ACCOUNT DETAILS**

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- 10.1 Financial and Account Report**
- 10.2 Annual Account 2021-22**

## 10.1 FINANCIAL AND ACCOUNT REPORT



BRANCH: DIRECTOR GENERAL OF AUDIT (CENTRAL), LUCKNOW AT  
ALLAHABAD



Date: 19 Oct 2022

To,

Secretary, Department of Higher Education, Ministry of Education, Shastri Bhawan, New Delhi-110001

Subject: Issue of Separate Audit Report : PR-19847 on the Accounts of MNNIT Allahabad, Prayagraj for the year 2021-22.

Letter No. DIS-430865

Sir/Madam,

इस पत्र के माध्यम से मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद, प्रयागराज के वर्ष 2021-22 के लेखों पर पृथक लेखा परीक्षा प्रतिवेदन (अंग्रेजी) अवसारीत किया जा रहा है।

- कृपया सुनिश्चित करें की पृथक लेखापरीक्षा प्रतिवेदन एवं सम्बंधित लेखे संसद के दोनों सदनों के सम्मुख प्रस्तुत हुए।
- कृपया पृथक लेखापरीक्षा प्रतिवेदन एवं लेखो को संसद के दोनों सदनों के सम्मुख अंतिम 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,  
प्रधान निदेशक लेखापरीक्षा (केंद्रीय)

Letter No. DIS-430919 Dated 19.10.2022

वर्ष 2021-22 के लेखों पर पृथक लेखापरीक्षा प्रतिवेदन (अंग्रेजी) की प्रति निदेशक, राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद, प्रयागराज - 211004 को आवश्यक कार्यवाही हेतु प्रेषित है। संस्थान यदि आवश्यकता अनुभव करें, 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।

Yours faithfully,

Jayakar Babu  
Deputy Accountant General / Deputy Director



**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, 2022**

We have audited the attached Balance Sheet of Motilal Nehru National Institute of Technology Allahabad, (Institute) Prayagraj as at 31 March 2022, the Income & Expenditure Account and Receipt & Payment Account for the year ended on that date under Section 19(2) of the Comptroller & 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 & Expenditure Account and Receipt & Payment Account dealt with by this report have been drawn up in the format of Financial Statement for Central Higher Education Institutions (format) 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

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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) General**

The Institute has not depicted Land distinctly as Freehold Land and Leasehold land as required under format of MHRD.

**(B) Grants-in-Aid**

The Institute received Grant-in-aid of Rs. 161.23 Crore during the year 2021-22. After taking opening balance of Rs. 120.68 Crore, the total fund available worked out to Rs. 281.91 Crore. Out of this the Institute utilized Rs. 177.83 Crore leaving a balance of Rs. 104.08 Crore as on 31<sup>st</sup> March 2022.

**(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 2022, and*

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

### **Annexure**

**1. Adequacy of Internal Audit System**

Internal audit of the Institute has been conducted for the year 2021-22.

**2. Adequacy of Internal Control System**

Internal control system of the Institute is characterized by the following deficiencies

- a. Non-investment of the Bank FDRs at higher available rates.
- b. Non fulfillment of vacancy, as only 207 are posted as against 362 in Teaching staff and 129 are posted as against 398 in Non-Teaching staff.

**3. System of Physical verification of fixed assets**

Physical verification of fixed assets has been conducted for the year 2021-22.

**4. System of Physical verification of inventory**

Physical verification of inventory has been conducted for the year 2021-22.

**5. Regularity in payment of statutory dues**

The Institute is regular in payment of statutory dues.

## 10.2 ANNUAL ACCOUNTS: 2021-22

**MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD**  
**BALANCE SHEET AS AT 31ST MARCH 2022**

(Amount-Rs)

Sources of Funds	Sch	Current Year	Previous Year
Corpus/capital fund	1	3,03,86,60,176.19	2,64,27,39,063.08
Designated/ earmarked funds	2	2,36,29,79,533.05	1,84,72,55,373.43
Current liabilities and provisions	3	2,22,94,77,778.93	2,27,57,88,393.68
<b>Total</b>		<b>7,63,11,17,488.17</b>	<b>6,76,57,82,830.19</b>

Application of Funds	Sch	Current Year	Previous Year
<b>Fixed Assets</b>			
Tangible assets	4	1,91,04,07,180.12	1,73,95,29,559.02
Capital work-in-progress	4	1,33,77,05,058.00	64,71,64,023.65
Intangible assets	4	5,15,89,674.46	4,69,87,009.00
<b>Investments from earmarked/endowment funds:</b>	5		
Long term		2,32,70,50,615.52	1,05,51,98,912.17
Short term			
<b>Investment others</b>	6	62,99,35,920.00	75,39,38,490.00
<b>Current assets</b>	7	1,14,94,88,158.39	1,65,85,67,016.65
<b>Loans, advances &amp; deposits</b>	8	22,49,40,881.68	86,43,97,819.70

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<b>Total</b>		<b>7,63,11,17,488.17</b>	<b>6,76,57,82,830.19</b>
Significant accounting policies	23		
Contingent liabilities and notes to accounts	24		

**ASSISTANT REGISTRAR (A/CS)**

**REGISTRAR**

**DIRECTOR**

**INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2022**

(Amount-Rs)

Particulars	Sch	Current Year	Previous Year
<b>Income</b>			
Academic receipts	9	52,64,30,612.79	43,59,44,219.85
Grants & donations	10	1,19,69,74,840.93	1,17,62,58,820.15
Income from investments	11	-	-
Interest earned	12	4,21,15,117.00	9,81,05,403.00
Other incomes	13	5,54,63,526.60	5,36,29,596.59
Prior period income	14	94,91,571.30	43,682.00
<b>Total (A)</b>		<b>1,83,04,75,668.62</b>	<b>1,76,39,81,721.59</b>
<b>Expenditure</b>			
Staff payments & benefits	15	1,01,03,13,492.93	95,87,86,860.00
Academic expenses	16	30,09,78,052.00	23,62,71,280.50
Administrative and general expenses	17	15,48,06,116.00	15,40,75,125.66
Transportation expenses	18	5,98,924.00	7,74,339.00
Repair & maintenance	19	2,02,15,135.00	3,11,07,798.00
Finance costs	20	2,13,074.71	1,84,723.86
Other expenses	21	31,48,426.00	10,45,794.00
Prior period expenses	22	8,38,990.90	38,848.00



Motilal Nehru National Institute of Technology Allahabad [MNNIT Allahabad]

Depreciation		15,60,48,466.90	13,46,92,197.90
<b>Total (B)</b>		<b>1,64,71,60,678.44</b>	<b>1,51,69,76,966.92</b>
<b>Balance being excess of income over expenditure (A-B)</b>		18,33,14,990.18	24,70,04,754.67
Transfer to /from Designated fund, Building Fund, Others) - Apportioned amount of Depreciation towards Assets purchased out of Capital Fund		15,60,30,497.90	13,46,66,510.90
<b>Balance Being Surplus/ (Deficit) Carried to General Fund</b>		33,93,45,488.08	38,16,71,265.57
Significant accounting polcies	<b>23</b>		
Contingent liabilities and notes on accounts.	<b>24</b>		

ASSISTANT REGISTRAR (A/CS)

REGISTRAR

DIRECTOR

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

(Amount-Rs)

Particulars	Capital Fund-Institute	Capital Fund-Subsidiaries (Ref Annexure A (1))	Current Year	Previous Year
<b>Institute</b>				
Balance as at the beginning of the year	2,37,21,88,909.69	27,05,50,153.39	2,64,27,39,063.08	2,24,56,79,524.35
Add: Contributions towards Corpus/Capital Fund	-		-	-
Add: Grant from UGC, Government of India and State government to the extent utilized for capital expenditure	45,38,95,444.46		45,38,95,444.46	25,72,57,793.00
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	33,93,45,488.08	42,48,204.10	34,35,93,692.18	43,37,15,699.63
<b>Total</b>	<b>3,16,54,29,842.23</b>	<b>27,47,98,357.49</b>	<b>3,44,02,28,199.72</b>	<b>2,93,66,53,016.98</b>
Add/(Less): Adjustments		30,16,977.72	30,16,977.72	(98,31,009.00)
Less: Apportioned Amount of Depreciation	15,60,30,497.90	-	15,60,30,497.90	13,46,66,510.90
Less: Transfer to Corpus Fund as per 52 FC-52.06	24,85,54,503.35		24,85,54,503.35	14,94,16,434.00
Less: Transfer to Grant Head Salary (OH-36)	-		-	-
<b>Balance as at the end of the year</b>	<b>2,76,08,44,840.98</b>	<b>27,78,15,335.21</b>	<b>3,03,86,60,176.19</b>	<b>2,64,27,39,063.08</b>

## SCHEDULE FORMING PART OF BALANCE SHEET

## ANNEXURE A(1) OF SCH 1

## FUND ACCOUNT - SUBSIDIARIES

(Amount in Rs.)

Particulars	Opening Balance as on 01/04/2021	Add: Income (as per Annexure i)	Less: Expense (as per Annexure ii & iii)	Adjustment	As at March 31, 2022	As at March 31, 2022
Dean Academic Affairs	8,75,97,187.98	1,58,88,041.00	84,17,765.00		9,50,67,463.98	8,75,97,187.98
G. K. Agarwal Trust	40,66,312.23	1,83,142.00	1,04,166.00	-	41,45,288.23	40,66,312.23
Industrial Estate	4,04,63,983.91	60,10,552.00	13,01,654.00	-	4,51,72,881.91	4,04,63,983.91
Nodal Center	(4,11,882.00)		4,680.00		(4,16,562.00)	(4,11,882.00)
P.D.T.C.	(1,78,088.00)	-			(1,78,088.00)	(1,78,088.00)
Project Account	17,46,190.33	-	67,57,319.00	-	(50,11,128.67)	17,46,190.33
Research & Consultancy Cell	3,52,07,258.42	-	3,34,657.00	-	3,48,72,601.42	3,52,07,258.42
School of Non Formal Continuing Education (SNFCE)	1,42,85,114.00	31,17,200.00	10,80,441.00		1,63,21,873.00	1,42,85,114.00
Sponsored Gold Medal	9,35,220.80	3,52,244.00	46,251.00	-	12,41,213.80	9,35,220.80
Student Welfare Fund	2,93,55,763.22	40,89,093.00	16,86,820.90	-	3,17,58,035.32	2,93,55,763.22
SCST Scholarship	-	24,27,646.00	22,21,402.00	25,16,977.72	27,23,221.72	-
Sponsored Scholarships & Awards	-	15,265.00	50,000.00	5,00,000.00	4,65,265.00	-
TEQIP - III	5,70,61,129.50	1,17,713.00	59,65,789.00	-	5,12,13,053.50	5,70,61,129.50
Text Book Lending Bank	4,21,963.00	18,253.00	-		4,40,216.00	4,21,963.00
<b>Total</b>	<b>27,05,50,153.39</b>	<b>3,22,19,149.00</b>	<b>2,79,70,944.90</b>	<b>30,16,977.72</b>	<b>27,78,15,335.21</b>	<b>27,05,50,153.39</b>

**SCHEDULE FORMING PART OF BALANCE SHEET  
SCHEDULE 2-EARMARKED/ENDOWMENT FUNDS**

(Amount-Rs)

Particulars	FUND –WISE BREAK UP								Total	
	GPF	CPF	NPS	Donation	Corpus Fund	Staff Deve- lopment	Devl. Renewal Fund	Maintenance Fund	Current year	Previous year
<b>A.</b>										
a) Opening balance of the funds	30,58,22,818.00	99,70,329.98	45,77,624.20	51,70,596.94	1,51,70,27,942.59	22,02,197.84	12,42,245.94	12,41,617.94	1,84,72,55,373.43	1,65,72,81,392.59
b) Additions during the year									-	-
c) Income from investments made of the funds (Interest from Autosweep)			1,88,835.00	587.00	1,41,68,680.00	18,155.00	17,168.00	17,137.00	1,44,10,562.00	53,82,603.00
d) Accrued interest on investments of the funds	1,18,19,485.00	4,84,711.00			6,63,29,667.00	93,789.00	42,986.00	42,986.00	7,88,13,624.00	2,29,07,889.00
e) Interest on Saving Bank a/c	1,37,503.00	8,268.00	23,671.00	97,173.00	1,19,790.00	2,862.00	2,930.00	2,930.00	3,95,127.00	3,11,797.00
f) Other additions (specify nature)									-	-
TDS 2021-22	6,40,389.00	13,219.00			4,71,554.00	4,844.00	2,220.00	2,220.00	11,34,446.00	18,08,002.00
Reversal of Bank Charges									-	413.00
R&C Cell & Project A/c									-	99,48,828.00
Transfer from Institute-Capital Fund					24,85,54,503.35				24,85,54,503.35	14,94,16,434.00
CSAB & DASA					16,07,08,975.87				16,07,08,975.87	-
Donation Received									-	51,51,467.94
Employee Subscription	3,95,95,946.00	4,58,280.00	7,10,80,370.00						11,11,34,596.00	10,30,20,969.00
<b>Total (A)</b>	<b>35,80,16,141.00</b>	<b>1,09,34,807.98</b>	<b>7,58,70,500.20</b>	<b>52,68,356.94</b>	<b>2,00,73,81,112.81</b>	<b>23,21,847.84</b>	<b>13,07,549.94</b>	<b>13,06,890.94</b>	<b>2,46,24,07,207.65</b>	<b>1,95,52,29,795.53</b>
<b>B.</b>										
<b>Utilization/Expenditure towards objectives of funds</b>										
i. Capital Expenditure									-	-
Payment to Subscriber less	2,58,15,326.00								2,58,15,326.00	4,22,97,671.00

Motilal Nehru National Institute of Technology Allahabad [MNNIT Allahabad]

Uncashed cheques										
Payment to NSDL			7,08,78,576.00						7,08,78,576.00	6,56,76,698.00
ii. Revenue Expenditure			53.10	27,33,719.50					27,33,772.60	53.10
<b>Total (B)</b>	2,58,15,326.00	-	7,08,78,629.10	27,33,719.50	-	-	-	-	9,94,27,674.60	10,79,74,422.10
<b>Net balance as at the year end (A-B)</b>	<b>33,22,00,815.00</b>	<b>1,09,34,807.98</b>	<b>49,91,871.10</b>	<b>25,34,637.44</b>	<b>2,00,73,81,112.81</b>	<b>23,21,847.84</b>	<b>13,07,549.94</b>	<b>13,06,890.94</b>	<b>2,36,29,79,533.05</b>	<b>1,84,72,55,373.43</b>

(Amount-Rs)

Represented by:	FUND –WISE BREAK UP								Total	
	GPF	CPF	NPS	Donation	Corpus Fund	Staff Development	Development /Renewal Fund	Maintenance Fund	Current Year	Previous Year
Cash & bank balance	83,89,656.00	5,33,696.12	49,91,871.10	25,34,637.44	90,47,725.87	4,83,802.00	4,64,302.00	4,63,646.00	2,69,09,336.53	78,44,00,329.26
Investments	31,79,11,726.00	98,20,360.00	-	-	1,94,67,90,123.00	17,35,008.00	7,95,209.00	7,95,209.00	2,27,78,47,635.00	1,03,63,13,899.00
Interest accrued but not due	41,43,487.00	1,57,503.86	-	-	4,47,07,420.59	50,144.84	22,982.94	22,982.94	4,91,04,522.17	1,87,86,554.82
TDS	17,55,946.00	4,23,248.00	-	-	67,37,385.00	52,893.00	25,056.00	25,053.00	90,19,581.00	76,56,132.00
Amount Receivable from Institute	-	-	-	-	98,458.35	-	-	-	98,458.35	98,458.35
<b>Net balance as at the year end (A-B)</b>	<b>33,22,00,815.00</b>	<b>1,09,34,807.98</b>	<b>49,91,871.10</b>	<b>25,34,637.44</b>	<b>2,00,73,81,112.81</b>	<b>23,21,847.84</b>	<b>13,07,549.94</b>	<b>13,06,890.94</b>	<b>2,36,29,79,533.05</b>	<b>1,84,72,55,373.43</b>

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

(Amount-Rs)

Particulars	Current Year	Previous Year
<b>A. Current Liabilities</b>		
<b>1. Deposits from staff</b>		-
<b>2. Deposits from students</b>		-
<b>3. Sundry Creditors</b>		-
a) For Goods & Services		-
b) Others (Refer Annexure B (1))	55,41,77,912.00	44,77,37,012.00

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<b>4. Deposit-Others(Including EMD, Security Deposit)</b>	-	-
<b>5. Statutory Liabilities (GPF,TDS,WC TAX,CPF,GIS,NPS):</b>	-	-
a) Overdue	-	-
b) Others (Refer Annexure B (2))	(29,19,132.81)	33,01,806.26
<b>6. Other current Liabilities</b>	-	-
a) Salaries	-	-
b) Receipts against sponsored projects	-	-
c) Receipts against sponsored fellowships & scholarships (Refer Annexure B (3))	18,64,27,194.00	18,71,73,534.00
d) i. Unutilised Grants (Refer Annexure B(4))(B)	37,19,39,612.34	79,51,29,402.73
d) ii. Unutilised IRG (Refer Annexure B(4))(B)	66,88,50,069.85	41,16,95,096.85
d) iii. Interest on Unutilised Grants	20,49,775.00	47,29,843.00
e) Grants in advance	-	-
f) Other funds (Refer Annexure B (5))	2,88,520.00	2,88,520.00
g) Other liabilities (Refer Annexure B (6))	12,02,74,835.55	10,86,72,368.84
<b>Total (A)</b>	<b>1,90,10,88,785.93</b>	<b>1,95,87,27,583.68</b>
<b>B. Provisions</b>		
<b>1. For Taxation</b>	-	-
<b>2. Gratuity</b>		
<b>3. Superannuation/Pension</b>		
Acturial Provision on Pension	25,67,09,120.00	23,96,04,613.00
Pension Pay	99,81,320.00	1,05,03,465.00
Pension Relief	36,08,394.00	20,77,983.00
Commutated Pension Payable		-
New Pension Scheme	36,95,076.00	31,17,116.00
<b>4. Accumulated Leave Encashment</b>		
Leave Encashment on LTC Other Staff	-	70,317.00
Retirement Leave Encashment Payable		-
<b>5. Expenses payable (Refer Annexure B (7))</b>	5,43,95,083.00	6,16,87,316.00
<b>Total (B)</b>	<b>32,83,88,993.00</b>	<b>31,70,60,810.00</b>
<b>Total (A+B)</b>	<b>2,22,94,77,778.93</b>	<b>2,27,57,88,393.68</b>



## 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 01/04/2021	Receipts During the Year	Payments During the Year	Journal Entry	As at March 31, 2022	As at March 31, 2021
<b>Institute</b>						
Loan Account of PDTC & Industrial Estate	1,47,23,920.00	-	-		1,47,23,920.00	1,47,23,920.00
HEFA Loan	30,59,45,574.00	11,12,73,020.00	8,50,00,000.00		33,22,18,594.00	30,59,45,574.00
HEFA Loan-II Multi Stories Faculty Quarters	5,94,96,336.00	10,00,00,000.00	1,98,32,120.00		13,96,64,216.00	5,94,96,336.00
<b>Subsidiaries</b>						
Project Account - Transferable amount to R&C Cell	7,96,672.00	-	-		7,96,672.00	7,96,672.00
R&C Cell - Payable to RES, Bhadhoi	39,325.00	-	-		39,325.00	39,325.00
R&C Cell - Testing & Consultancy	6,40,33,787.00	-	-		6,40,33,787.00	6,40,33,787.00
R&C Cell -Unclaimed Deposits	27,01,398.00	-	-		27,01,398.00	27,01,398.00
<b>Total</b>	<b>44,77,37,012.00</b>	<b>21,12,73,020.00</b>	<b>10,48,32,120.00</b>	<b>-</b>	<b>55,41,77,912.00</b>	<b>44,77,37,012.00</b>

ASSISTANT REGISTRAR (A/CS)

REGISTRAR

DIRECTOR

**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 01/04/2021	Receipts During the Year	Payments During the Year	As at March 31, 2022	As at March 31, 2021
<b>Institute</b>					
Income Tax	11,94,536.00	10,97,12,024.00	10,96,74,344.00	12,32,216.00	11,94,536.00
GST Payable	10,383.26	-	10,383.26	-	10,383.26
GST ITC	38,224.00	46,94,177.19	42,94,026.00	4,38,375.19	38,224.00
GST RCM	5,05,304.00	-	5,05,304.00	-	5,05,304.00
Employees contribution to C.P.F	-	4,58,280.00	4,58,280.00	-	-
Employees contribution to N.P.S	16,348.00	7,09,49,443.00	7,71,06,205.00	(61,40,414.00)	16,348.00
GPF- contribution to employees	-	3,93,57,645.00	3,93,42,370.00	15,275.00	-
<b>Subsidiaries</b>					
R&C Cell - GST	15,29,891.00	-	-	15,29,891.00	15,29,891.00
Industrial Estate - GST	7,120.00	6,41,765.00	6,43,361.00	5,524.00	7,120.00
SNFCE - GST		15,802.00	15,802.00	-	-
SNFCE - Income Tax	-	41,992.00	41,992.00	-	-
<b>Total</b>	<b>33,01,806.26</b>	<b>22,58,71,128.19</b>	<b>23,20,92,067.26</b>	<b>(29,19,132.81)</b>	<b>33,01,806.26</b>

**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 01/04/2021		Transaction during the year 2021-22		Closing balance as on 31/03/2022	
	Debit	Credit	Debit	Credit	Debit	Credit
<b>Institute</b>						

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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	-	-	91,36,638.00	91,36,638.00	-	-
U.G.C. Fellowship	-	1,45,906.00	1,45,906.00	-	-	-
AIEEE Scholarship	-	1,05,000.00	1,05,000.00		-	-
AICT Fellowship		1,17,666.00	1,17,666.00	-	-	-
<b>Subsidiaries</b>						
<b>Project Account :</b>						
Project (Running)	-	6,42,20,314.00	-	-	-	6,42,20,314.00
Project (Deferred Grant)		12,08,41,547.00	-	-		12,08,41,547.00
R&C Cell (Deferred Grant)		11,10,351.00	-	-		11,10,351.00
<b>Total</b>	<b>-</b>	<b>18,71,73,534.00</b>	<b>98,82,978.00</b>	<b>91,36,638.00</b>	<b>-</b>	<b>18,64,27,194.00</b>

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
<b>MHRD-GOI - Head - Recurring (OH-31)</b>		
Balance B/F	42,05,74,748.93	20,25,37,784.08
Add: Receipts during the year		
i. Donation/Grants	74,42,75,000.00	78,66,75,000.00
ii. Institute Receipts	36,19,87,093.00	31,46,94,480.85
iii. HEFA Loan Interest	3,64,48,562.00	2,53,83,091.00
<b>Total (a)</b>	<b>1,56,32,85,403.93</b>	<b>1,32,92,90,355.93</b>
Less: Utilisation/Expenditure towards objectives of funds		
i. Capital Expenditure	36,48,379.00	73,54,602.00
ii. Revenue Expenditure	82,41,04,128.11	75,13,13,650.00

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iii. Refund of Grant to UGC/Govt of India	3,71,00,000.00	-
iv. HEFA Loan Principle Repayment	10,48,32,120.00	12,46,64,264.00
v. HEFA Loan Interest Repayment	3,64,48,562.00	2,53,83,091.00
<b>Total (b)</b>	<b>1,00,61,33,189.11</b>	<b>90,87,15,607.00</b>
Unutilised carried forward (a-b)	55,71,52,214.82	42,05,74,748.93
<b>MHRD-GOI - Head - Non Recurring (OH-35)</b>		
Balance B/F	58,24,03,966.65	72,56,13,932.65
Add: Receipts during the year		
i. Donation/Grants	15,13,20,000.00	11,00,00,000.00
<b>Total (a)</b>	<b>73,37,23,966.65</b>	<b>83,56,13,932.65</b>
Less: Utilisation/Expenditure towards objectives of funds		
i. Capital Expenditure	45,02,47,065.46	24,99,03,191.00
ii. Revenue Expenditure	24,69,950.00	33,06,775.00
iii. Refund of Grant to UGC/Govt of India	-	-
<b>Total (b)</b>	<b>45,27,17,015.46</b>	<b>25,32,09,966.00</b>
Unutilised carried forward (a-b)	28,10,06,951.19	58,24,03,966.65
<b>MHRD-GOI -Head - Salary (OH-36)</b>		
Balance B/F	20,38,45,784.00	17,07,05,396.00
Add: Receipts during the year		
i. Donation/Grants	68,03,04,000.00	64,48,09,000.00
ii. Transfer from Grant OH-31 (Recurring)	-	-
iii. Transfer from Corpus/Capital Fund in terms of MHRD Letter No. F. no. 23011/02/2018-IF.I dated 25-10-2018		
<b>Sub Total (a)</b>	<b>88,41,49,784.00</b>	<b>81,55,14,396.00</b>
Less: Utilisation/Expenditure towards objectives of funds		
i. Capital Expenditure	-	-
ii. Revenue Expenditure	62,75,55,735.82	61,16,68,612.00
iii. Refund of Grant to UGC/Govt of India	5,39,63,532.00	-
<b>Sub Total (b)</b>	<b>68,15,19,267.82</b>	<b>61,16,68,612.00</b>
Unutilised carried forward (a-b)	20,26,30,516.18	20,38,45,784.00

<b>Net Unutilised Balance</b>	<b>1,04,07,89,682.19</b>	<b>1,20,68,24,499.58</b>
<b>Net Unutilised Balance</b>		
On Account of Grant	37,19,39,612.34	79,51,29,402.73
On Account of IRG	66,88,50,069.85	41,16,95,096.85

**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 01/04/2021	Receipts During the Year	Payments During the Year	As at March 31, 2022	As at March 31, 2021
Bal Bharti Vidyalaya (Const of Building)	1,50,000.00			1,50,000.00	1,50,000.00
NIMCET	1,38,520.00	1,12,000.00	1,12,000.00	1,38,520.00	1,38,520.00
<b>Total</b>	<b>2,88,520.00</b>	<b>1,12,000.00</b>	<b>1,12,000.00</b>	<b>2,88,520.00</b>	<b>2,88,520.00</b>

**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 01/04/2021	Receipts During the Year	Payments During the Year	Journal Entry	As at March 31, 2022	As at March 31, 2021
Cancelled Cheques	1,41,45,603.00	1,53,36,427.00	1,51,55,955.00	8,000.00	1,43,34,075.00	1,41,45,603.00
DST New Delhi/Inspire	1,00,527.00	-	-		1,00,527.00	1,00,527.00
Examination Fees	1,32,18,109.46	1,57,28,999.66	1,32,18,109.00		1,57,29,000.12	1,32,18,109.46
L.I.C.	4,40,111.70	2,32,382.00	2,32,382.00		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)	1,77,45,123.47	18,99,257.05	23,81,645.00		1,72,62,735.52	1,77,45,123.47

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Caution Money	2,32,78,000.00	1,49,30,500.00	44,44,000.00	(11,28,345.00)	3,26,36,155.00	2,32,78,000.00
Earnest Money/ Security Money	1,81,90,582.00	15,50,462.00	75,14,107.00		1,22,26,937.00	1,81,90,582.00
Project Account Dean R & C	49,53,513.00	-	-		49,53,513.00	49,53,513.00
GIAN Project	8,10,340.86	17,04,000.00	5,21,050.00		19,93,290.86	8,10,340.86
Payable to Subsidiaries & Fund on Account of TDS Refund	-			54,21,836.00	54,21,836.00	-
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	5,90,000.00	-	-		5,90,000.00	5,90,000.00
SBI Loan Recovery	-	96,000.00	80,000.00		16,000.00	-
Payable to Alumni Association	1,58,525.00	-	-		1,58,525.00	1,58,525.00
Alumni Fees Liability	-	35,12,000.00	35,12,000.00		-	-
Swayam	1,60,012.00	-		(1,60,012.00)	-	1,60,012.00
Atal Programme	(7,920.00)	5,45,540.00	5,44,860.00		(7,240.00)	(7,920.00)
Amount Payable to Corpus Fund	98,458.35	-	-		98,458.35	98,458.35
<b>Subsidiaries</b>						
Dean Academics - Cancelled Cheques	2,44,658.00	-	-		2,44,658.00	2,44,658.00
Industrial Estate - Expenses Payable	1,62,868.00	15,000.00	12,980.00		1,64,888.00	1,62,868.00
Industrial Estate - Executive Engineer CPWD (road and Drainage)	38,522.00	-	38,522.00		-	38,522.00
Project Account - Accounting Charges Payable	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	28,67,972.00	-	-		28,67,972.00	28,67,972.00
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	1,21,838.00	-	-	1,21,838.00	1,21,838.00
R&C Cell - Excess Amount of Testing	16,417.00	-	-	16,417.00	16,417.00
Student Welfare Fund - Expense Payable	-	15,000.00	-	15,000.00	-
SNFCE- Cancelled Cheque	62,400.00	1,653.00	-	64,053.00	62,400.00
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
<b>Total</b>	<b>10,86,72,368.84</b>	<b>5,55,67,220.71</b>	<b>4,76,55,610.00</b>	<b>12,02,74,835.55</b>	<b>10,86,72,368.84</b>

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, 2022		As at March 31, 2021	
<b>Salaries &amp; Wages :</b>				
Pay Direction & Teaching	2,97,04,247.00		2,96,18,995.00	
Pay Administrative Officer	13,15,600.00		13,20,600.00	
Pay Other Staff	45,70,950.00	3,55,90,797.00	41,88,100.00	3,51,27,695.00
<b>Dearness Allowances:</b>				
Direction & Teaching	92,08,317.00		50,35,231.00	
Administrative Officer	4,07,836.00		2,24,507.00	
Other Staff	14,16,995.00	1,10,33,148.00	7,11,977.00	59,71,715.00
<b>HRA:</b>				
Direction & Teaching	9,06,786.00		7,97,606.00	
Administrative Officer	1,26,249.00		90,669.00	
Other Staff	4,59,196.00	14,92,231.00	3,53,170.00	12,41,445.00
<b>Transport Allowances:</b>				

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Direction & Teaching	10,43,604.00		8,80,308.00	
Administrative Officer	68,382.00		61,074.00	
Other Staff	3,58,697.00	14,70,683.00	2,36,925.00	11,78,307.00
Special Allowance		57,250.00		69,550.00
Deans Honorarium		17,500.00		17,500.00
Cash Handling Allowance		700.00		700.00
Medical Allowance		3,77,000.00		4,06,000.00
<b>ARREARS</b>				
Pay Revision - Teaching/ Non Teaching		6,209.00		-
Pensioners		1,34,889.00		1,66,496.00
C.A. Fees Payable		2,36,000.00		2,36,000.00
C.P.F. Payable		19,570.00		19,000.00
Electricity & Power Payable				
Hostel		39,31,232.00		35,00,000.00
Pay on Contractual Staff		-		88,71,938.00
Security Charges Payable		-		48,76,473.00
Telephone Expenses Payable		27,874.00		4,497.00
<b>Total</b>		<b>5,43,95,083.00</b>		<b>6,16,87,316.00</b>

**SCHEDULE FORMING PART OF BALANCE SHEET**  
**SCHEDULE 4-FIXED ASSETS (INSTITUTE)**

(Amount-Rs)

Tangible Assets	Annexure no.	Depreciation Rate	Gross Block			Depreciation				Net Block	
			Opening Balance on 01.04.2021	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 31.03.2022	As at the previous year ended 31.03.2021
<b>Institute</b>											
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	1,40,34,83,457.48	7,54,07,788.00	1,47,88,91,245.48	39,51,70,207.00	2,95,77,825.00	-	42,47,48,032.00	1,05,41,43,213.48	1,00,83,13,250.48
3. Plant, machinery and equipment	C 2	5%- SLM	72,43,54,236.19	57,67,071.00	73,01,21,307.19	49,96,65,829.00	3,65,06,068.00	-	53,61,71,897.00	19,39,49,410.19	22,46,88,407.19

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4. Vehicles	C 3	10%- SLM	1,00,62,191.00	(7,38,888.00)	93,23,303.00	64,93,546.95	4,08,737.90	(7,01,943.00)	62,00,341.85	31,22,961.15	35,68,644.05
5. Furniture and fixtures	C 4	7.5%- SLM	17,90,13,208.00	13,17,779.00	18,03,30,987.00	13,08,43,723.30	65,85,892.00	-	13,74,29,615.30	4,29,01,371.70	4,81,69,484.70
6. Office equipment	C 5	7.5%- SLM	2,45,85,715.05	10,26,121.00	2,56,11,836.05	1,78,47,360.25	15,08,162.00	-	1,93,55,522.25	62,56,313.80	67,38,354.80
7. Computer peripherals	C 6	20%- SLM	26,00,26,480.90	30,19,615.00	26,30,46,095.90	23,74,39,635.25	47,96,657.00	-	24,22,36,292.25	2,08,09,803.65	2,25,86,845.65
8. Electric installations	C 7	5%- SLM	15,41,75,311.00	1,01,40,907.00	16,43,16,218.00	9,31,64,634.00	78,76,874.00	-	10,10,41,508.00	6,32,74,710.00	6,10,10,677.00
9. Library books	C 8	10%- SLM	19,63,00,657.00	-	19,63,00,657.00	18,13,23,694.55	8,72,154.00	-	18,21,95,848.55	1,41,04,808.45	1,49,76,962.45
10. Other fixed assets	C 9	7.5%- SLM	8,63,70,487.60	2,27,974.00	8,65,98,461.60	5,43,70,071.90	54,12,916.00	-	5,97,82,987.90	2,68,15,473.70	3,20,00,415.70
11. Tube wells and water supply	C 10	2%- SLM	1,18,86,549.00	-	1,18,86,549.00	13,52,278.00	2,37,731.00	-	15,90,009.00	1,02,96,540.00	1,05,34,271.00
12. Road	C 11	2%- SLM	9,08,00,106.00	18,64,93,664.00	27,72,93,770.00	18,16,002.00	55,45,875.00	-	73,61,877.00	26,99,31,893.00	8,89,84,104.00
<b>Total (A)</b>			<b>3,19,32,04,113.22</b>	<b>28,26,62,031.00</b>	<b>3,47,58,66,144.22</b>	<b>1,61,94,86,982.20</b>	<b>9,93,28,891.90</b>	<b>(7,01,943.00)</b>	<b>1,71,81,13,931.10</b>	<b>1,75,77,52,213.12</b>	<b>1,57,37,17,131.02</b>
Capital works in progress (B)	C 12		64,71,64,023.65	69,05,41,034.35	1,33,77,05,058.00					1,33,77,05,058.00	64,71,64,023.65
<b>Total (B)</b>			<b>64,71,64,023.65</b>	<b>69,05,41,034.35</b>	<b>1,33,77,05,058.00</b>	-	-	-	-	1,33,77,05,058.00	64,71,64,023.65
<b>Intangible Assets (C)</b>											
Computer Software (Dep: 40%)	C 13	40%- SLM	79,24,888.00	25,08,761.00	1,04,33,649.00	76,74,084.00	12,01,808.00	-	88,75,892.00	15,57,757.00	2,50,804.00
E-Journals (Dep: 40%)	C 14	40%- SLM	20,30,23,940.13	5,88,13,479.46	26,18,37,419.59	15,62,87,735.13	5,55,17,767.00	-	21,18,05,502.13	5,00,31,917.46	4,67,36,205.00
<b>Total (C)</b>			<b>21,09,48,828.13</b>	<b>6,13,22,240.46</b>	<b>27,22,71,068.59</b>	<b>16,39,61,819.13</b>	<b>5,67,19,575.00</b>	-	<b>22,06,81,394.13</b>	<b>5,15,89,674.46</b>	<b>4,69,87,009.00</b>
<b>Grand Total (A+B+C)</b>			<b>4,05,13,16,965.00</b>	<b>1,03,45,25,305.81</b>	<b>5,08,58,42,270.81</b>	<b>1,78,34,48,801.33</b>	<b>15,60,48,466.90</b>	<b>7,01,943.00</b>	<b>1,93,87,95,325.23</b>	<b>3,14,70,46,945.58</b>	<b>2,26,78,68,163.67</b>

**SCHEDULE FORMING PART OF BALANCE SHEET  
SCHEDULE 4-FIXED ASSETS (SUBSIDIARY)**

(Amount-Rs)

Tangible Assets	Anne xure no.	Depreciation Rate	Gross Block			Depreciation				Net Block	
			Opening Balance on 01.04.2021	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 31.03.2022	As at the previous year ended 31.03.2021
Institute											

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1. Land											
2. Buildings	C 1	2%- SLM									
3. Plant, machinery and equipment	C 2	5%- SLM	11,42,71,890.00		11,42,71,890.00	2,50,80,233.00	57,13,595.00		3,07,93,828.00	8,34,78,062.00	8,91,91,657.00
4. Vehicles	C 3	10%- SLM									
5. Furniture and fixtures	C 4	7.5%- SLM	12,20,360.00		12,20,360.00	3,62,309.00	91,528.00		4,53,837.00	7,66,523.00	8,58,051.00
6. Office equipment	C 5	7.5%- SLM	4,97,88,599.00	2,59,321.00	5,00,47,920.00	96,45,079.00	37,53,596.00		1,33,98,675.00	3,66,49,245.00	4,01,43,520.00
7. Computer peripherals	C 6	20%- SLM	3,49,87,243.00	1,72,402.00	3,51,59,645.00	2,80,29,298.00	17,80,664.00		2,98,09,962.00	53,49,683.00	69,57,945.00
8. Electric installations	C 7	5%- SLM	66,15,639.00		66,15,639.00	14,28,569.00	3,30,783.00		17,59,352.00	48,56,287.00	51,87,070.00
9. Library books	C 8	10%- SLM	1,49,13,270.00		1,49,13,270.00	88,71,396.00	14,91,327.00		1,03,62,723.00	45,50,547.00	60,41,874.00
10. Other fixed assets	C 9	7.5%- SLM	10,15,359.00		10,15,359.00	4,56,912.00	76,152.00		5,33,064.00	4,82,295.00	5,58,447.00
11. Tube wells and water supply	C 10	2%- SLM									
12. Road	C 11	2%- SLM	1,75,76,942.00		1,75,76,942.00	7,03,078.00	3,51,539.00		10,54,617.00	1,65,22,325.00	1,68,73,864.00
<b>Total</b>			<b>24,03,89,302.00</b>	<b>4,31,723.00</b>	<b>24,08,21,025.00</b>	<b>7,45,76,874.00</b>	<b>1,35,89,184.00</b>		<b>8,81,66,058.00</b>	<b>15,26,54,967.00</b>	<b>16,58,12,428.00</b>

**SCHEDULE 4-FIXED ASSETS (SUBSIDIARY & INSTITUTE)**

Total Assets	Annexure no.	Gross Block			Depreciation				Net Block	
		Opening Balance on 01.04.2021	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 31.03.2022	As at the previous year ended 31.03.2021
<b>Tangible Assets:</b>										
Institute		3,19,32,04,113.22	28,26,62,031.00	3,47,58,66,144.22	1,61,94,86,982.20	9,93,28,891.90	- 7,01,943.00	1,71,81,13,931.10	1,75,77,52,213.12	1,57,37,17,131.02
Subsidiary		24,03,89,302.00	4,31,723.00	24,08,21,025.00	7,45,76,874.00	1,35,89,184.00	-	8,81,66,058.00	15,26,54,967.00	16,58,12,428.00
<b>Total (A)</b>		<b>3,43,35,93,415.22</b>	<b>28,30,93,754.00</b>	<b>3,71,66,87,169.22</b>	<b>1,69,40,63,856.20</b>	<b>11,29,18,075.90</b>	<b>-7,01,943.00</b>	<b>1,80,62,79,989.10</b>	<b>1,91,04,07,180.12</b>	<b>1,73,95,29,559.02</b>
<b>Capital works in progress (Institute) (B)</b>		64,71,64,023.65	69,05,41,034.35	1,33,77,05,058.00					1,33,77,05,058.00	64,71,64,023.65
<b>Intangible Assets (Institute) (C)</b>		21,09,48,828.13	6,13,22,240.46	27,22,71,068.59	16,39,61,819.13	5,67,19,575.00		22,06,81,394.13	5,15,89,674.46	4,69,87,009.00
<b>Total (A+B+C)</b>		<b>4,29,17,06,267.00</b>	<b>1,03,49,57,028.81</b>	<b>5,32,66,63,295.81</b>	<b>1,85,80,25,675.33</b>	<b>16,96,37,650.90</b>	<b>-7,01,943.00</b>	<b>2,02,69,61,383.23</b>	<b>3,29,97,01,912.58</b>	<b>2,43,36,80,591.67</b>

## 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 01.04.2021	Additions/ (Deductions)	As at March 31, 2022	As at April 01, 2021	Depreciation during the year 20-21	Adj. during the year	As at March 31, 2022	As at March 31, 2022	As at March 31, 2021
<b>Assets out of Capital Fund:</b>	2%- SLM									
Upto the year 2013-14		1,20,08,90,348.48	-	1,20,08,90,348.48	38,23,76,815.00	2,40,17,807.00	-	40,63,94,622.00	79,44,95,726.48	81,85,13,533.48
During the year 2014-15		2,68,19,631.00	-	2,68,19,631.00	37,54,751.00	5,36,393.00	-	42,91,144.00	2,25,28,487.00	2,30,64,880.00
During the year 2015-16		1,83,85,669.00	-	1,83,85,669.00	22,06,278.00	3,67,713.00	-	25,73,991.00	1,58,11,678.00	1,61,79,391.00
During the year 2016-17		1,66,04,351.00	-	1,66,04,351.00	16,60,435.00	3,32,087.00	-	19,92,522.00	1,46,11,829.00	1,49,43,916.00
During the year 2018-19		5,75,65,504.00	-	5,75,65,504.00	33,68,758.00	11,51,310.00		45,20,068.00	5,30,45,436.00	5,41,96,746.00
During the year 2019-20		45,78,271.00	-	45,78,271.00	1,83,130.00	91,565.00		2,74,695.00	43,03,576.00	43,95,141.00
During the year 2020-21		7,85,10,708.00		7,85,10,708.00	15,70,214.00	15,70,214.00		31,40,428.00	7,53,70,280.00	7,69,40,494.00
During the year 2021-22			7,54,07,788.00	7,54,07,788.00		15,08,156.00		15,08,156.00	7,38,99,632.00	-
<b>Sub Total</b>		<b>1,40,33,54,482.48</b>	<b>7,54,07,788.00</b>	<b>1,47,87,62,270.48</b>	<b>39,51,20,381.00</b>	<b>2,95,75,245.00</b>	<b>-</b>	<b>42,46,95,626.00</b>	<b>1,05,40,66,644.48</b>	<b>1,00,82,34,101.48</b>
<b>Assets out of Institute Receipts</b>	2%- SLM									
Upto the year 2013-14		1,28,975.00	-	1,28,975.00	49,826.00	2,580.00	-	52,406.00	76,569.00	79,149.00
<b>Sub Total</b>		<b>1,28,975.00</b>	<b>-</b>	<b>1,28,975.00</b>	<b>49,826.00</b>	<b>2,580.00</b>	<b>-</b>	<b>52,406.00</b>	<b>76,569.00</b>	<b>79,149.00</b>
<b>Total</b>		<b>1,40,34,83,457.48</b>	<b>7,54,07,788.00</b>	<b>1,47,88,91,245.48</b>	<b>39,51,70,207.00</b>	<b>2,95,77,825.00</b>	<b>-</b>	<b>42,47,48,032.00</b>	<b>1,05,41,43,213.48</b>	<b>1,00,83,13,250.48</b>

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, 2021	Additions/ (Deductions)	As at March 31, 2022	As at April 01, 2021	Depreciation during the year	Adj. during the year	As at March 31, 2022	As at March 31, 2022	As at March 31, 2021
<b>Assets out of Capital Fund:</b>	5%-SLM							-	-	-
Upto the year 2013-14		48,42,92,853.19		48,42,92,853.19	42,64,81,993.00	2,42,14,643.00	-	45,06,96,636.00	3,35,96,217.19	5,78,10,860.19
During the year 2014-15		13,02,11,152.00		13,02,11,152.00	4,55,73,906.00	65,10,558.00	-	5,20,84,464.00	7,81,26,688.00	8,46,37,246.00
During the year 2015-16		7,52,11,037.00		7,52,11,037.00	2,25,63,312.00	37,60,552.00	-	2,63,23,864.00	4,88,87,173.00	5,26,47,725.00
During the year 2016-17		69,11,682.00		69,11,682.00	17,27,920.00	3,45,584.00	-	20,73,504.00	48,38,178.00	51,83,762.00
During the year 2017-18		69,63,451.00	-	69,63,451.00	13,92,692.00	3,48,173.00		17,40,865.00	52,22,586.00	55,70,759.00
During the year 2018-19		26,74,051.00		26,74,051.00	4,01,109.00	1,33,703.00		5,34,812.00	21,39,239.00	22,72,942.00
During the year 2019-20		1,03,78,816.00		1,03,78,816.00	10,37,882.00	5,18,941.00		15,56,823.00	88,21,993.00	93,40,934.00
During the year 2020-21		75,55,714.00		75,55,714.00	3,77,786.00	3,77,786.00		7,55,572.00	68,00,142.00	71,77,928.00
During the year 2021-22			57,67,071.00	57,67,071.00	-	2,88,354.00		2,88,354.00	54,78,717.00	-
<b>Sub Total</b>		<b>72,41,98,756.19</b>	<b>57,67,071.00</b>	<b>72,99,65,827.19</b>	<b>49,95,56,600.00</b>	<b>3,64,98,294.00</b>	<b>-</b>	<b>53,60,54,894.00</b>	<b>19,39,10,933.19</b>	<b>22,46,42,156.19</b>
<b>Assets out of Institute Receipts</b>	5%-SLM		-							
Upto the year 2013-14		1,55,480.00	-	1,55,480.00	1,09,229.00	7,774.00	-	1,17,003.00	38,477.00	46,251.00
<b>Sub Total</b>		<b>1,55,480.00</b>	<b>-</b>	<b>1,55,480.00</b>	<b>1,09,229.00</b>	<b>7,774.00</b>	<b>-</b>	<b>1,17,003.00</b>	<b>38,477.00</b>	<b>46,251.00</b>
<b>Total</b>		<b>72,43,54,236.19</b>	<b>57,67,071.00</b>	<b>73,01,21,307.19</b>	<b>49,96,65,829.00</b>	<b>3,65,06,068.00</b>	<b>-</b>	<b>53,61,71,897.00</b>	<b>19,39,49,410.19</b>	<b>22,46,88,407.19</b>

Description	Depreciation Rate	Gross Block			Depreciation				Net Block	
		As at April 01, 2021	Additions/ (Deductions)	As at March 31, 2022	As at April 01, 2021	Depreciation during the year	Adj. during the year	As at March 31, 2022	As at March 31, 2022	As at March 31, 2021
<b>Assets out of Subsidiaries Fund:</b>	5%-SLM									
<b>TEQIP II</b>										



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Upto the year 2013-14		65,76,788.00		65,76,788.00	19,73,034.00	3,28,839.00		23,01,873.00	42,74,915.00	46,03,754.00
During the year 2014-15		52,37,939.00		52,37,939.00	15,71,382.00	2,61,897.00		18,33,279.00	34,04,660.00	36,66,557.00
During the year 2016-17		26,21,943.00		26,21,943.00	6,55,485.00	1,31,097.00		7,86,582.00	18,35,361.00	19,66,458.00
During the year 2017-18		20,80,498.00	-	20,80,498.00	4,16,100.00	1,04,025.00		5,20,125.00	15,60,373.00	16,64,398.00
<b>Sub Total</b>		<b>1,65,17,168.00</b>	-	<b>1,65,17,168.00</b>	<b>46,16,001.00</b>	<b>8,25,858.00</b>	-	<b>54,41,859.00</b>	<b>1,10,75,309.00</b>	<b>1,19,01,167.00</b>
<b>Dean Academic Affairs</b>										
Upto the year 2013-14		15,380.00		15,380.00	4,614.00	769.00		5,383.00	9,997.00	10,766.00
<b>Sub Total</b>		<b>15,380.00</b>	-	<b>15,380.00</b>	<b>4,614.00</b>	<b>769.00</b>	-	<b>5,383.00</b>	<b>9,997.00</b>	<b>10,766.00</b>
<b>Project Account</b>										
Upto the year 2013-14		4,21,25,805.00		4,21,25,805.00	1,26,37,742.00	21,06,290.00		1,47,44,032.00	2,73,81,773.00	2,94,88,063.00
During the year 2014-15		55,00,859.00		55,00,859.00	16,50,258.00	2,75,043.00		19,25,301.00	35,75,558.00	38,50,601.00
During the year 2015-16		45,19,929.00		45,19,929.00	13,55,976.00	2,25,996.00		15,81,972.00	29,37,957.00	31,63,953.00
During the year 2016-17		45,92,746.00		45,92,746.00	11,48,185.00	2,29,637.00		13,77,822.00	32,14,924.00	34,44,561.00
During the year 2017-18		39,46,375.00		39,46,375.00	7,89,276.00	1,97,319.00		9,86,595.00	29,59,780.00	31,57,099.00
During the year 2018-19		37,80,114.00		37,80,114.00	5,67,018.00	1,89,006.00		7,56,024.00	30,24,090.00	32,13,096.00
During the year 2019-20		40,12,114.00		40,12,114.00	4,01,212.00	2,00,606.00		6,01,818.00	34,10,296.00	36,10,902.00
During the year 2020-21		2,71,41,560.00	-	2,71,41,560.00	13,57,078.00	13,57,078.00		27,14,156.00	2,44,27,404.00	2,57,84,482.00
<b>Sub Total</b>		<b>9,56,19,502.00</b>	-	<b>9,56,19,502.00</b>	<b>1,99,06,745.00</b>	<b>47,80,975.00</b>	-	<b>2,46,87,720.00</b>	<b>7,09,31,782.00</b>	<b>7,57,12,757.00</b>
<b>R &amp; C Cell</b>										
Upto the year 2013-14		16,07,475.00		16,07,475.00	4,82,244.00	80,374.00		5,62,618.00	10,44,857.00	11,25,231.00
During the year 2015-16		28,500.00		28,500.00	8,550.00	1,425.00		9,975.00	18,525.00	19,950.00
During the year 2016-17		1,77,450.00		1,77,450.00	44,365.00	8,873.00		53,238.00	1,24,212.00	1,33,085.00
During the year 2019-20		47,861.00		47,861.00	4,786.00	2,393.00		7,179.00	40,682.00	43,075.00
During the year 2020-21		2,58,554.00	-	2,58,554.00	12,928.00	12,928.00		25,856.00	2,32,698.00	2,45,626.00
<b>Sub Total</b>		<b>21,19,840.00</b>	-	<b>21,19,840.00</b>	<b>5,52,873.00</b>	<b>1,05,993.00</b>	-	<b>6,58,866.00</b>	<b>14,60,974.00</b>	<b>15,66,967.00</b>
<b>Total</b>		<b>11,42,71,890.00</b>	-	<b>11,42,71,890.00</b>	<b>2,50,80,233.00</b>	<b>57,13,595.00</b>	-	<b>3,07,93,828.00</b>	<b>8,34,78,062.00</b>	<b>8,91,91,657.00</b>

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, 2021	Additions/ (Deductions)	As at March 31, 2022	As at April 01, 2021	Depreciation during the year	Adjustment during the year	As at March 31, 2022	As at March 31, 2022	As at March 31, 2021
<b>Assets out of Capital Fund:</b>	10%-SLM									
Upto the year 2013-14 (Residual Value <= 5%)		44,34,457.00	(7,38,888.00)	36,95,569.00	42,12,734.15	-	(7,01,943.00)	35,10,791.15	1,84,777.85	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 2020-21		40,87,379.00		40,87,379.00	8,17,475.80	4,08,737.90		12,26,213.70	28,61,165.30	32,69,903.20
<b>Sub Total</b>		<b>1,00,62,191.00</b>	<b>(7,38,888.00)</b>	<b>93,23,303.00</b>	<b>64,93,546.95</b>	<b>4,08,737.90</b>	<b>(7,01,943.00)</b>	<b>62,00,341.85</b>	<b>31,22,961.15</b>	<b>35,68,644.05</b>
<b>Total</b>		<b>1,00,62,191.00</b>	<b>(7,38,888.00)</b>	<b>93,23,303.00</b>	<b>64,93,546.95</b>	<b>4,08,737.90</b>	<b>(7,01,943.00)</b>	<b>62,00,341.85</b>	<b>31,22,961.15</b>	<b>35,68,644.05</b>

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, 2021	Additions/ (Deductions)	As at March 31, 2022	As at April 01, 2021	Depreciation during the year	Adj. during the year	As at March 31, 2022	As at March 31, 2022	As at March 31, 2021
<b>Assets out of Capital Fund:</b>	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	5,78,28,570.00	17,61,567.00	-	5,95,90,137.00	31,36,323.00	48,97,890.00

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During the year 2014-15		2,65,20,319.00		2,65,20,319.00	1,39,23,165.00	19,89,024.00	-	1,59,12,189.00	1,06,08,130.00	1,25,97,154.00
During the year 2015-16		40,52,263.00		40,52,263.00	18,23,520.00	3,03,920.00	-	21,27,440.00	19,24,823.00	22,28,743.00
During the year 2016-17		14,26,648.00		14,26,648.00	5,34,995.00	1,06,999.00	-	6,41,994.00	7,84,654.00	8,91,653.00
During the year 2017-18		97,31,449.00	-	97,31,449.00	29,19,436.00	7,29,859.00		36,49,295.00	60,82,154.00	68,12,013.00
During the year 2018-19		74,32,208.00		74,32,208.00	16,72,248.00	5,57,416.00		22,29,664.00	52,02,544.00	57,59,960.00
During the year 2019-20		64,97,551.00		64,97,551.00	9,74,632.00	4,87,316.00		14,61,948.00	50,35,603.00	55,22,919.00
During the year 2020-21		73,46,100.00		73,46,100.00	5,50,958.00	5,50,958.00		11,01,916.00	62,44,184.00	67,95,142.00
During the year 2021-22		-	13,17,779.00	13,17,779.00	-	98,833.00		98,833.00	12,18,946.00	-
<b>Sub Total</b>		<b>17,82,63,032.00</b>	<b>13,17,779.00</b>	<b>17,95,80,811.00</b>	<b>13,01,31,056.30</b>	<b>65,85,892.00</b>	<b>-</b>	<b>13,67,16,948.30</b>	<b>4,28,63,862.70</b>	<b>4,81,31,975.70</b>
<b>Assets out of Institute Receipts</b>	7.5%-SLM									
Upto the year 2013-14		7,50,176.00	-	7,50,176.00	7,12,667.00	-	-	7,12,667.00	37,509.00	37,509.00
<b>Sub Total</b>		<b>7,50,176.00</b>	<b>-</b>	<b>7,50,176.00</b>	<b>7,12,667.00</b>	<b>-</b>	<b>-</b>	<b>7,12,667.00</b>	<b>37,509.00</b>	<b>37,509.00</b>
<b>Total</b>		<b>17,90,13,208.00</b>	<b>13,17,779.00</b>	<b>18,03,30,987.00</b>	<b>13,08,43,723.30</b>	<b>65,85,892.00</b>	<b>-</b>	<b>13,74,29,615.30</b>	<b>4,29,01,371.70</b>	<b>4,81,69,484.70</b>

Description	Depreciation Rate	Gross Block			Depreciation				Net Block	
		Additions/ (Deductions)	As at March 31, 2022	As at April 01, 2021	Additions/ (Deductions)	As at March 31, 2022	As at April 01, 2021	Additions/ (Deductions)	As at March 31, 2022	As at April 01, 2021
<b>Assets out of Subsidiaries Fund</b>	7.5%-SLM									
<b>Project Account</b>										
Upto the year 2013-14		3,00,307.00		3,00,307.00	1,35,138.00	22,523.00		1,57,661.00	1,42,646.00	1,65,169.00
During the year 2015-16		11,000.00		11,000.00	4,950.00	825.00		5,775.00	5,225.00	6,050.00
During the year 2021-22		75,091.00	-	75,091.00	5,632.00	5,632.00		11,264.00	63,827.00	69,459.00
<b>Sub Total</b>		<b>3,86,398.00</b>	<b>-</b>	<b>3,86,398.00</b>	<b>1,45,720.00</b>	<b>28,980.00</b>	<b>-</b>	<b>1,74,700.00</b>	<b>2,11,698.00</b>	<b>2,40,678.00</b>
<b>R&amp;C Cell</b>										
Upto the year 2013-14		65,806.00		65,806.00	29,610.00	4,935.00		34,545.00	31,261.00	36,196.00
During the year 2014-15		1,33,568.00		1,33,568.00	60,108.00	10,018.00		70,126.00	63,442.00	73,460.00
During the year 2017-18		26,460.00	-	26,460.00	7,940.00	1,985.00		9,925.00	16,535.00	18,520.00
During the year 2019-20		4,18,613.00		4,18,613.00	62,792.00	31,396.00		94,188.00	3,24,425.00	3,55,821.00
During the year 2020-21		77,719.00	-	77,719.00	5,829.00	5,829.00		11,658.00	66,061.00	71,890.00

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<b>Sub Total</b>		<b>7,22,166.00</b>	-	<b>7,22,166.00</b>	<b>1,66,279.00</b>	<b>54,163.00</b>	-	<b>2,20,442.00</b>	<b>5,01,724.00</b>	<b>5,55,887.00</b>
<b>Dean Academic</b>										
During the year 2015-16		45,561.00		45,561.00	20,502.00	3,417.00		23,919.00	21,642.00	25,059.00
<b>Sub Total</b>		<b>45,561.00</b>	-	<b>45,561.00</b>	<b>20,502.00</b>	<b>3,417.00</b>	-	<b>23,919.00</b>	<b>21,642.00</b>	<b>25,059.00</b>
<b>SNFCE</b>										
Upto the year 2013-14		66,235.00		66,235.00	29,808.00	4,968.00		34,776.00	31,459.00	36,427.00
<b>Sub Total</b>		<b>66,235.00</b>	-	<b>66,235.00</b>	<b>29,808.00</b>	<b>4,968.00</b>	-	<b>34,776.00</b>	<b>31,459.00</b>	<b>36,427.00</b>
<b>Total</b>		<b>12,20,360.00</b>	-	<b>12,20,360.00</b>	<b>3,62,309.00</b>	<b>91,528.00</b>	-	<b>4,53,837.00</b>	<b>7,66,523.00</b>	<b>8,58,051.00</b>

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	
		Additions/ (Deductions)	As at March 31, 2022	As at April 01, 2021	Additions/ (Deductions)	As at March 31, 2022	As at April 01, 2021	Additions/ (Deductions)	As at March 31, 2022	As at April 01, 2021
<b>Assets out of Capital Fund:</b>	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	97,80,918.00	8,56,007.00	-	1,06,36,925.00	7,76,499.05	16,32,506.05
During the year 2014-15		17,98,820.00	-	17,98,820.00	9,44,381.00	1,34,912.00	-	10,79,293.00	7,19,527.00	8,54,439.00
During the year 2015-16		8,58,774.00	-	8,58,774.00	3,86,448.00	64,408.00	-	4,50,856.00	4,07,918.00	4,72,326.00
During the year 2016-17		36,27,461.00	-	36,27,461.00	13,60,300.00	2,72,060.00	-	16,32,360.00	19,95,101.00	22,67,161.00
During the year 2017-18		82,750.00	-	82,750.00	24,824.00	6,206.00	-	31,030.00	51,720.00	57,926.00
During the year 2019-20		49,359.00	-	49,359.00	7,404.00	3,702.00	-	11,106.00	38,253.00	41,955.00
During the year 2020-21		12,25,471.00	-	12,25,471.00	91,910.00	91,910.00	-	1,83,820.00	10,41,651.00	11,33,561.00
During the year 2021-22		-	10,26,121.00	10,26,121.00	-	76,959.00	-	76,959.00	9,49,162.00	-
<b>Sub Total</b>		<b>2,45,32,674.05</b>	<b>10,26,121.00</b>	<b>2,55,58,795.05</b>	<b>1,77,98,969.25</b>	<b>15,06,164.00</b>	-	<b>1,93,05,133.25</b>	<b>62,53,661.80</b>	<b>67,33,704.80</b>
<b>Assets out of Institute Receipts</b>	7.5%-SLM									

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Upto the year 2013-14		53,041.00	-	53,041.00	48,391.00	1,998.00	-	50,389.00	2,652.00	4,650.00
<b>Sub Total</b>		<b>53,041.00</b>	<b>-</b>	<b>53,041.00</b>	<b>48,391.00</b>	<b>1,998.00</b>	<b>-</b>	<b>50,389.00</b>	<b>2,652.00</b>	<b>4,650.00</b>
<b>Total</b>		<b>2,45,85,715.05</b>	<b>10,26,121.00</b>	<b>2,56,11,836.05</b>	<b>1,78,47,360.25</b>	<b>15,08,162.00</b>	<b>-</b>	<b>1,93,55,522.25</b>	<b>62,56,313.80</b>	<b>67,38,354.80</b>

Description	Depreciation Rate	Gross Block			Depreciation			Net Block		
		Additions/ (Deductions)	As at March 31, 2022	As at April 01, 2021	Additions/ (Deductions)	As at March 31, 2022	As at April 01, 2021	Additions/ (Deductions)	As at March 31, 2022	As at April 01, 2021
<b>Nodal Centre</b>										
Upto the year 2013-14		62,405.00		62,405.00	28,080.00	4,680.00		32,760.00	29,645.00	34,325.00
<b>Sub Total</b>		<b>62,405.00</b>	<b>-</b>	<b>62,405.00</b>	<b>28,080.00</b>	<b>4,680.00</b>	<b>-</b>	<b>32,760.00</b>	<b>29,645.00</b>	<b>34,325.00</b>
<b>R&amp;C Cell</b>										
Upto the year 2013-14		69,243.00		69,243.00	31,158.00	5,193.00		36,351.00	32,892.00	38,085.00
<b>Sub Total</b>		<b>69,243.00</b>	<b>-</b>	<b>69,243.00</b>	<b>31,158.00</b>	<b>5,193.00</b>	<b>-</b>	<b>36,351.00</b>	<b>32,892.00</b>	<b>38,085.00</b>
<b>Dean Academic Affairs</b>										
Upto the year 2013-14		1,28,590.00		1,28,590.00	57,864.00	9,644.00		67,508.00	61,082.00	70,726.00
During the year 2014-15		97,650.00		97,650.00	43,944.00	7,324.00		51,268.00	46,382.00	53,706.00
During the year 2015-16		2,29,450.00		2,29,450.00	1,03,254.00	17,209.00		1,20,463.00	1,08,987.00	1,26,196.00
During the year 2016-17		2,72,900.00		2,72,900.00	1,02,340.00	20,468.00		1,22,808.00	1,50,092.00	1,70,560.00
During the year 2020-21		1,55,500.00		1,55,500.00	11,663.00	11,663.00		23,326.00	1,32,174.00	1,43,837.00
During the year 2021-22			2,59,321.00	2,59,321.00	-	19,449.00		19,449.00	2,39,872.00	-
<b>Sub Total</b>		<b>8,84,090.00</b>	<b>2,59,321.00</b>	<b>11,43,411.00</b>	<b>3,19,065.00</b>	<b>85,757.00</b>	<b>-</b>	<b>4,04,822.00</b>	<b>7,38,589.00</b>	<b>5,65,025.00</b>
<b>Tequip III</b>										
During the year 2015-16		92,398.00		92,398.00	41,580.00	6,930.00		48,510.00	43,888.00	50,818.00
During the year 2016-17		63,12,474.00		63,12,474.00	23,67,180.00	4,73,436.00		28,40,616.00	34,71,858.00	39,45,294.00
During the year 2017-18		98,08,530.00	-	98,08,530.00	29,42,560.00	7,35,640.00		36,78,200.00	61,30,330.00	68,65,970.00
During the year 2019-20		1,81,98,218.00		1,81,98,218.00	27,29,732.00	13,64,866.00		40,94,598.00	1,41,03,620.00	1,54,68,486.00
During the year 2020-21		1,40,71,567.00	-	1,40,71,567.00	10,55,368.00	10,55,368.00		21,10,736.00	1,19,60,831.00	1,30,16,199.00
<b>Sub Total</b>		<b>4,84,83,187.00</b>	<b>-</b>	<b>4,84,83,187.00</b>	<b>91,36,420.00</b>	<b>36,36,240.00</b>	<b>-</b>	<b>1,27,72,660.00</b>	<b>3,57,10,527.00</b>	<b>3,93,46,767.00</b>
<b>Student Welfare Fund</b>										
Upto the year 2013-14		2,89,674.00		2,89,674.00	1,30,356.00	21,726.00		1,52,082.00	1,37,592.00	1,59,318.00
<b>Sub Total</b>		<b>2,89,674.00</b>	<b>-</b>	<b>2,89,674.00</b>	<b>1,30,356.00</b>	<b>21,726.00</b>	<b>-</b>	<b>1,52,082.00</b>	<b>1,37,592.00</b>	<b>1,59,318.00</b>
<b>Total</b>		<b>4,97,88,599.00</b>	<b>2,59,321.00</b>	<b>5,00,47,920.00</b>	<b>96,45,079.00</b>	<b>37,53,596.00</b>	<b>-</b>	<b>1,33,98,675.00</b>	<b>3,66,49,245.00</b>	<b>4,01,43,520.00</b>

## SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'C' OF SCH 4

## FIXED ASSETS

## C (6). COMPUTER &amp; PERIPHERALS

(Amount in Rs.)

Description	Depreciation Rate	Gross Block			Depreciation			Net Block		
		As at April 01, 2021	Additions/ (Deductions)	As at March 31, 2022	As at April 01, 2021	Depreciation during the year	Adj. during the year	As at March 31, 2022	As at March 31, 2022	As at March 31, 2021
<b>Assets out of Capital Fund:</b>	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	1,26,43,941.00	-		1,26,43,941.00	6,65,471.00	6,65,471.00
During the year 2016-17		80,26,633.00		80,26,633.00	76,25,301.00	-		76,25,301.00	4,01,332.00	4,01,332.00
During the year 2017-18		81,67,023.00	-	81,67,023.00	65,33,620.00	12,25,052.00		77,58,672.00	4,08,351.00	16,33,403.00
During the year 2018-19		26,71,199.00		26,71,199.00	16,02,720.00	5,34,240.00		21,36,960.00	5,34,239.00	10,68,479.00
During the year 2019-20		84,99,285.00		84,99,285.00	33,99,714.00	16,99,857.00		50,99,571.00	33,99,714.00	50,99,571.00
During the year 2020-21		36,67,924.00		36,67,924.00	7,33,585.00	7,33,585.00		14,67,170.00	22,00,754.00	29,34,339.00
During the year 2021-22			30,19,615.00	30,19,615.00	-	6,03,923.00		6,03,923.00	24,15,692.00	-
<b>Sub Total</b>		<b>25,86,95,175.90</b>	<b>30,19,615.00</b>	<b>26,17,14,790.90</b>	<b>23,61,74,895.50</b>	<b>47,96,657.00</b>	<b>-</b>	<b>24,09,71,552.50</b>	<b>2,07,43,238.40</b>	<b>2,25,20,280.40</b>
<b>Assets out of Institute Receipts</b>	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
<b>Sub Total</b>		<b>13,31,305.00</b>	<b>-</b>	<b>13,31,305.00</b>	<b>12,64,739.75</b>	<b>-</b>	<b>-</b>	<b>12,64,739.75</b>	<b>66,565.25</b>	<b>66,565.25</b>
<b>Total</b>		<b>26,00,26,480.90</b>	<b>30,19,615.00</b>	<b>26,30,46,095.90</b>	<b>23,74,39,635.25</b>	<b>47,96,657.00</b>	<b>-</b>	<b>24,22,36,292.25</b>	<b>2,08,09,803.65</b>	<b>2,25,86,845.65</b>

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Description	Depreciation Rate	Gross Block			Depreciation			Net block		
		As at April 01, 2021	Additions/ (Deductions)	As at March 31, 2022	As at April 01, 2021	Depreciation during the year	Adj. during the year	As at March 31, 2022	As at March 31, 2022	As at March 31, 2021
<b>Assets out of Subsidiaries Fund</b>	20%- SLM									
<b>Dean Academic Affairs</b>										
Upto the year 2013-14		34,500.00		34,500.00	32,775.00	-		32,775.00	1,725.00	1,725.00
During the year 2015-16		17,775.00		17,775.00	16,886.00	-		16,886.00	889.00	889.00
During the year 2016-17		8,655.00		8,655.00	8,222.00	-		8,222.00	433.00	433.00
During the year 2018-19		1,11,319.00		1,11,319.00	66,792.00	22,264.00		89,056.00	22,263.00	44,527.00
During the year 2019-20		43,898.00		43,898.00	17,560.00	8,780.00		26,340.00	17,558.00	26,338.00
During the year 2021-22			1,72,402.00	1,72,402.00	-	34,480.00		34,480.00	1,37,922.00	-
<b>Sub Total</b>		<b>2,16,147.00</b>	<b>1,72,402.00</b>	<b>3,88,549.00</b>	<b>1,42,235.00</b>	<b>65,524.00</b>	<b>-</b>	<b>2,07,759.00</b>	<b>1,80,790.00</b>	<b>73,912.00</b>
<b>Industrial Estate</b>										
Upto the year 2013-14		43,877.00		43,877.00	41,683.00	-		41,683.00	2,194.00	2,194.00
During the year 2015-16		14,495.00		14,495.00	13,770.00	-		13,770.00	725.00	725.00
During the year 2019-20		32,038.00	-	32,038.00	8,582.00	6,408.00		14,990.00	17,048.00	23,456.00
During the year 2020-21		23,017.00	-	23,017.00	4,603.00	4,603.00	-	9,206.00	13,811.00	18,414.00
<b>Sub Total</b>		<b>1,13,427.00</b>	<b>-</b>	<b>1,13,427.00</b>	<b>68,638.00</b>	<b>11,011.00</b>	<b>-</b>	<b>79,649.00</b>	<b>33,778.00</b>	<b>44,789.00</b>
<b>Nodal Centre</b>										
Upto the year 2013-14		85,306.00		85,306.00	81,041.00	-		81,041.00	4,265.00	4,265.00
<b>Sub Total</b>		<b>85,306.00</b>	<b>-</b>	<b>85,306.00</b>	<b>81,041.00</b>	<b>-</b>	<b>-</b>	<b>81,041.00</b>	<b>4,265.00</b>	<b>4,265.00</b>
<b>Project Account</b>										
Upto the year 2013-14		65,55,940.00		65,55,940.00	62,28,143.00	-		62,28,143.00	3,27,797.00	3,27,797.00
During the year 2014-15		3,11,440.00		3,11,440.00	2,95,868.00	-		2,95,868.00	15,572.00	15,572.00
During the year 2015-16		1,09,394.00		1,09,394.00	1,03,924.00	-		1,03,924.00	5,470.00	5,470.00
During the year 2016-17		28,12,318.00		28,12,318.00	26,71,702.00	-		26,71,702.00	1,40,616.00	1,40,616.00
During the year 2017-18		10,96,074.00		10,96,074.00	8,76,860.00	1,64,410.00		10,41,270.00	54,804.00	2,19,214.00
During the year 2018-19		10,36,710.00		10,36,710.00	6,22,026.00	2,07,342.00		8,29,368.00	2,07,342.00	4,14,684.00
During the year 2019-20		15,09,814.00		15,09,814.00	6,03,926.00	3,01,963.00		9,05,889.00	6,03,925.00	9,05,888.00
During the year 2020-21		43,38,941.00	-	43,38,941.00	8,67,788.00	8,67,788.00		17,35,576.00	26,03,365.00	34,71,153.00
<b>Sub Total</b>		<b>1,77,70,631.00</b>	<b>-</b>	<b>1,77,70,631.00</b>	<b>1,22,70,237.00</b>	<b>15,41,503.00</b>	<b>-</b>	<b>1,38,11,740.00</b>	<b>39,58,891.00</b>	<b>55,00,394.00</b>
<b>R&amp;C Cell</b>										



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Upto the year 2013-14		1,58,12,923.00		1,58,12,923.00	1,50,22,277.00	-		1,50,22,277.00	7,90,646.00	7,90,646.00
During the year 2014-15		21,131.00		21,131.00	20,074.00	-		20,074.00	1,057.00	1,057.00
During the year 2015-16		1,54,550.00		1,54,550.00	1,46,823.00	-		1,46,823.00	7,727.00	7,727.00
During the year 2018-19		1,88,669.00		1,88,669.00	1,13,202.00	37,734.00		1,50,936.00	37,733.00	75,467.00
During the year 2019-20		1,99,395.00		1,99,395.00	79,758.00	39,879.00		1,19,637.00	79,758.00	1,19,637.00
During the year 2020-21		4,25,064.00	-	4,25,064.00	85,013.00	85,013.00		1,70,026.00	2,55,038.00	3,40,051.00
<b>Sub Total</b>		<b>1,68,01,732.00</b>	-	<b>1,68,01,732.00</b>	<b>1,54,67,147.00</b>	<b>1,62,626.00</b>	-	<b>1,56,29,773.00</b>	<b>11,71,959.00</b>	<b>13,34,585.00</b>
<b>Total</b>		<b>3,49,87,243.00</b>	<b>1,72,402.00</b>	<b>3,51,59,645.00</b>	<b>2,80,29,298.00</b>	<b>17,80,664.00</b>	-	<b>2,98,09,962.00</b>	<b>53,49,683.00</b>	<b>69,57,945.00</b>

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, 2021	Additions/ (Deductions)	As at March 31, 2022	As at April 01, 2021	Depreciation during the year	Adj. During the year	As at March 31, 2022	As at March 31, 2022	As at March 31, 2021
<b>Assets out of Capital Fund:</b>	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
Upto the year 2013-14		10,21,54,196.00		10,21,54,196.00	7,92,01,872.00	51,07,710.00	-	8,43,09,582.00	1,78,44,614.00	2,29,52,324.00
During the year 2014-15		5,68,883.00		5,68,883.00	1,99,108.00	28,444.00	-	2,27,552.00	3,41,331.00	3,69,775.00
During the year 2015-16		12,60,341.00		12,60,341.00	3,78,102.00	63,017.00	-	4,41,119.00	8,19,222.00	8,82,239.00
During the year 2016-17		22,10,220.00		22,10,220.00	5,52,555.00	1,10,511.00	-	6,63,066.00	15,47,154.00	16,57,665.00
During the year 2017-18		2,11,16,559.00		2,11,16,559.00	42,23,312.00	10,55,828.00		52,79,140.00	1,58,37,419.00	1,68,93,247.00
During the year 2018-19		66,81,523.00		66,81,523.00	10,02,228.00	3,34,076.00		13,36,304.00	53,45,219.00	56,79,295.00
During the year 2019-20		80,38,641.00		80,38,641.00	8,03,864.00	4,01,932.00		12,05,796.00	68,32,845.00	72,34,777.00
During the year 2020-21		52,53,878.00		52,53,878.00	2,62,694.00	2,62,694.00		5,25,388.00	47,28,490.00	49,91,184.00
During the year 2021-22		-	1,01,40,907.00	1,01,40,907.00	-	5,07,045.00		5,07,045.00	96,33,862.00	-
<b>Sub Total</b>		<b>15,39,48,211.00</b>	<b>1,01,40,907.00</b>	<b>16,40,89,118.00</b>	<b>9,29,54,506.00</b>	<b>78,71,257.00</b>	-	<b>10,08,25,763.00</b>	<b>6,32,63,355.00</b>	<b>6,09,93,705.00</b>
Assets out of Institute Receipts	5%- SLM									

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Upto the year 2013-14		2,27,100.00	-	2,27,100.00	2,10,128.00	5,617.00	-	2,15,745.00	11,355.00	16,972.00
<b>Sub Total</b>		<b>2,27,100.00</b>	<b>-</b>	<b>2,27,100.00</b>	<b>2,10,128.00</b>	<b>5,617.00</b>	<b>-</b>	<b>2,15,745.00</b>	<b>11,355.00</b>	<b>16,972.00</b>
<b>Total</b>		<b>15,41,75,311.00</b>	<b>1,01,40,907.00</b>	<b>16,43,16,218.00</b>	<b>9,31,64,634.00</b>	<b>78,76,874.00</b>	<b>-</b>	<b>10,10,41,508.00</b>	<b>6,32,74,710.00</b>	<b>6,10,10,677.00</b>

Description	Depreciation Rate	Gross Block			Depreciation			Net Block		
		As at April 01, 2021	Additions/ (Deductions)	As at March 31, 2022	As at April 01, 2021	Depreciation during the year	Adj. During the year	As at March 31, 2022	As at March 31, 2021	
<b>Assets out of Subsidiaries Fund</b>	5%- SLM									
<b>Project Account</b>										
Upto the year 2013-14		3,62,271.00		3,62,271.00	1,08,682.00	18,114.00		1,26,796.00	2,35,475.00	2,53,589.00
During the year 2014-15		1,88,874.00		1,88,874.00	56,664.00	9,444.00		66,108.00	1,22,766.00	1,32,210.00
During the year 2016-17		18,34,154.00		18,34,154.00	4,58,540.00	91,708.00		5,50,248.00	12,83,906.00	13,75,614.00
During the year 2017-18		27,29,648.00	-	27,29,648.00	5,45,928.00	1,36,482.00		6,82,410.00	20,47,238.00	21,83,720.00
During the year 2018-19		6,45,400.00		6,45,400.00	96,810.00	32,270.00		1,29,080.00	5,16,320.00	5,48,590.00
During the year 2020-21		2,52,475.00		2,52,475.00	25,248.00	12,624.00		37,872.00	2,14,603.00	2,27,227.00
<b>Sub Total</b>		<b>60,12,822.00</b>	<b>-</b>	<b>60,12,822.00</b>	<b>12,91,872.00</b>	<b>3,00,642.00</b>	<b>-</b>	<b>15,92,514.00</b>	<b>44,20,308.00</b>	<b>47,20,950.00</b>
<b>R&amp;C Cell</b>										
Upto the year 2013-14		18,775.00		18,775.00	5,634.00	939.00		6,573.00	12,202.00	13,141.00
During the year 2014-15		89,962.00		89,962.00	26,988.00	4,498.00		31,486.00	58,476.00	62,974.00
During the year 2019-20		24,900.00	-	24,900.00	2,490.00	1,245.00		3,735.00	21,165.00	22,410.00
<b>Sub Total</b>		<b>1,33,637.00</b>	<b>-</b>	<b>1,33,637.00</b>	<b>35,112.00</b>	<b>6,682.00</b>	<b>-</b>	<b>41,794.00</b>	<b>91,843.00</b>	<b>98,525.00</b>
<b>Dean Academics</b>										
During the year 2015-16		1,68,355.00		1,68,355.00	50,508.00	8,418.00		58,926.00	1,09,429.00	1,17,847.00
During the year 2019-20		1,01,125.00		1,01,125.00	10,112.00	5,056.00		15,168.00	85,957.00	91,013.00
During the year 2020-21		75,780.00		75,780.00	3,789.00	3,789.00		7,578.00	68,202.00	71,991.00
<b>Sub Total</b>		<b>3,45,260.00</b>	<b>-</b>	<b>3,45,260.00</b>	<b>64,409.00</b>	<b>17,263.00</b>	<b>-</b>	<b>81,672.00</b>	<b>2,63,588.00</b>	<b>2,80,851.00</b>
<b>Student Welfare Fund</b>										
Upto the year 2013-14		1,23,920.00		1,23,920.00	37,176.00	6,196.00		43,372.00	80,548.00	86,744.00
<b>Sub Total</b>		<b>1,23,920.00</b>	<b>-</b>	<b>1,23,920.00</b>	<b>37,176.00</b>	<b>6,196.00</b>	<b>-</b>	<b>43,372.00</b>	<b>80,548.00</b>	<b>86,744.00</b>
<b>Total</b>		<b>66,15,639.00</b>	<b>-</b>	<b>66,15,639.00</b>	<b>14,28,569.00</b>	<b>3,30,783.00</b>	<b>-</b>	<b>17,59,352.00</b>	<b>48,56,287.00</b>	<b>51,87,070.00</b>

## 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, 2021	Additions/ (Deductions)	As at March 31, 2022	As at April 01, 2021	Depreciation during the year	Adj. During the year	As at March 31, 2022	As at March 31, 2021	
<b>Assets out of Capital Fund:</b>	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	1,58,627.00	22,661.00		1,81,288.00	45,321.00	67,982.00
During the year 2017-18		44,93,808.00	-	44,93,808.00	17,97,524.00	4,49,381.00		22,46,905.00	22,46,903.00	26,96,284.00
During the year 2018-19		38,01,666.00	-	38,01,666.00	11,40,501.00	3,80,167.00		15,20,668.00	22,80,998.00	26,61,165.00
During the year 2019-20		69,352.00	-	69,352.00	13,870.00	6,935.00		20,805.00	48,547.00	55,482.00
During the year 2020-21		1,30,104.00	-	1,30,104.00	13,010.00	13,010.00		26,020.00	1,04,084.00	1,17,094.00
During the year 2021-22										
<b>Sub Total</b>		<b>19,32,10,977.00</b>	<b>-</b>	<b>19,32,10,977.00</b>	<b>17,83,88,498.55</b>	<b>8,72,154.00</b>	<b>-</b>	<b>17,92,60,652.55</b>	<b>1,39,50,324.45</b>	<b>1,48,22,478.45</b>
<b>Assets out of Institute Receipts</b>	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
<b>Sub Total</b>		<b>30,89,680.00</b>	<b>-</b>	<b>30,89,680.00</b>	<b>29,35,196.00</b>	<b>-</b>	<b>-</b>	<b>29,35,196.00</b>	<b>1,54,484.00</b>	<b>1,54,484.00</b>
<b>Total</b>		<b>19,63,00,657.00</b>	<b>-</b>	<b>19,63,00,657.00</b>	<b>18,13,23,694.55</b>	<b>8,72,154.00</b>	<b>-</b>	<b>18,21,95,848.55</b>	<b>1,41,04,808.45</b>	<b>1,49,76,962.45</b>

Description	Depreciation Rate	Gross Block			Depreciation			Net Block	
		As at April 01, 2021	Additions/ (Deductions)	As at March 31, 2022	As at April 01, 2021	Depreciation during the year	Adj. during the year	As at March 31, 2022	As at March 31, 2021
<b>Assets out of Subsidiaries Fund</b>	10%-SLM								
<b>Project Account</b>									

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Upto the year 2013-14		7,15,863.00		7,15,863.00	4,29,516.00	71,586.00		5,01,102.00	2,14,761.00	2,86,347.00
During the year 2014-15		75,588.00		75,588.00	45,354.00	7,559.00		52,913.00	22,675.00	30,234.00
During the year 2015-16		30,469.00		30,469.00	18,282.00	3,047.00		21,329.00	9,140.00	12,187.00
During the year 2016-17		20,000.00		20,000.00	10,000.00	2,000.00		12,000.00	8,000.00	10,000.00
During the year 2017-18		95,234.00		95,234.00	38,092.00	9,523.00		47,615.00	47,619.00	57,142.00
During the year 2019-20		20,000.00		20,000.00	4,000.00	2,000.00		6,000.00	14,000.00	16,000.00
During the year 2020-21		95,040.00	-	95,040.00	9,504.00	9,504.00		19,008.00	76,032.00	85,536.00
<b>Sub Total</b>		<b>10,52,194.00</b>	-	<b>10,52,194.00</b>	<b>5,54,748.00</b>	<b>1,05,219.00</b>	-	<b>6,59,967.00</b>	<b>3,92,227.00</b>	<b>4,97,446.00</b>
<b>TEQIP II</b>										
Upto the year 2013-14		1,38,61,076.00		1,38,61,076.00	83,16,648.00	13,86,108.00		97,02,756.00	41,58,320.00	55,44,428.00
<b>Sub Total</b>		<b>1,38,61,076.00</b>	-	<b>1,38,61,076.00</b>	<b>83,16,648.00</b>	<b>13,86,108.00</b>	-	<b>97,02,756.00</b>	<b>41,58,320.00</b>	<b>55,44,428.00</b>
<b>Total</b>		<b>1,49,13,270.00</b>	-	<b>1,49,13,270.00</b>	<b>88,71,396.00</b>	<b>14,91,327.00</b>	-	<b>1,03,62,723.00</b>	<b>45,50,547.00</b>	<b>60,41,874.00</b>

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, 2021	Additions/ (Deductions)	As at March 31, 2022	As at April 01, 2021	Depreciation during the year	Adj. during the year	As at March 31, 2022	As at March 31, 2022	As at March 31, 2021
<b>Assets out of Capital Fund:</b>	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	2,59,75,807.00	32,20,780.00	-	2,91,96,587.00	1,37,47,146.60	1,69,67,926.60
During the year 2014-15		2,70,20,157.00	-	2,70,20,157.00	1,41,85,584.00	20,26,512.00	-	1,62,12,096.00	1,08,08,061.00	1,28,34,573.00
During the year 2015-16		6,71,338.00	-	6,71,338.00	3,02,100.00	50,350.00	-	3,52,450.00	3,18,888.00	3,69,238.00
During the year 2017-18		1,81,884.00	-	1,81,884.00	54,564.00	13,641.00		68,205.00	1,13,679.00	1,27,320.00
During the year 2018-19		90,047.00		90,047.00	20,262.00	6,754.00		27,016.00	63,031.00	69,785.00
During the year 2019-20		6,53,822.00		6,53,822.00	98,074.00	49,037.00		1,47,111.00	5,06,711.00	5,55,748.00
During the year 2020-21		3,83,257.00		3,83,257.00	28,744.00	28,744.00		57,488.00	3,25,769.00	3,54,513.00

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During the year 2021-22		-	2,27,974.00	2,27,974.00	-	17,098.00		17,098.00	2,10,876.00	-
<b>Sub Total</b>		<b>8,62,33,400.60</b>	<b>2,27,974.00</b>	<b>8,64,61,374.60</b>	<b>5,42,39,838.90</b>	<b>54,12,916.00</b>	<b>-</b>	<b>5,96,52,754.90</b>	<b>2,68,08,619.70</b>	<b>3,19,93,561.70</b>
<b>Assets out of Institute Receipts</b>	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
<b>Sub Total</b>		<b>1,37,087.00</b>	<b>-</b>	<b>1,37,087.00</b>	<b>1,30,233.00</b>	<b>-</b>	<b>-</b>	<b>1,30,233.00</b>	<b>6,854.00</b>	<b>6,854.00</b>
<b>Total</b>		<b>8,63,70,487.60</b>	<b>2,27,974.00</b>	<b>8,65,98,461.60</b>	<b>5,43,70,071.90</b>	<b>54,12,916.00</b>	<b>-</b>	<b>5,97,82,987.90</b>	<b>2,68,15,473.70</b>	<b>3,20,00,415.70</b>

Description	Depreciation Rate	Gross Block			Depreciation			Net Block		
		As at April 01, 2021	Additions/ (Deductions)	As at March 31, 2022	As at April 01, 2021	Depreciation during the year	Adj. during the year	As at March 31, 2022	As at March 31, 2021	
Assets out of Subsidiaries Fund	7.5%- SLM									
Student Welfare Fund										
Upto the year 2013-14		10,15,359.00	-	10,15,359.00	4,56,912.00	76,152.00		5,33,064.00	4,82,295.00	5,58,447.00
<b>Sub Total</b>		<b>10,15,359.00</b>	<b>-</b>	<b>10,15,359.00</b>	<b>4,56,912.00</b>	<b>76,152.00</b>		<b>5,33,064.00</b>	<b>4,82,295.00</b>	<b>5,58,447.00</b>
<b>Total</b>		<b>10,15,359.00</b>	<b>-</b>	<b>10,15,359.00</b>	<b>4,56,912.00</b>	<b>76,152.00</b>		<b>5,33,064.00</b>	<b>4,82,295.00</b>	<b>5,58,447.00</b>

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, 2021	Additions/ (Deductions)	As at March 31, 2022	As at April 01, 2021	Depreciation during the year	Adj. during the year	As at March 31, 2022	As at March 31, 2021	
Assets out of Capital Fund:	2%- SLM									
Upto the year 2013-14		20,02,100.00	-	20,02,100.00	9,46,439.00	40,042.00	-	9,86,481.00	10,15,619.00	10,55,661.00
During the year 2016-17		1,74,353.00	-	1,74,353.00	17,435.00	3,487.00	-	20,922.00	1,53,431.00	1,56,918.00
During the year 2020-21		97,10,096.00	-	97,10,096.00	3,88,404.00	1,94,202.00		5,82,606.00	91,27,490.00	93,21,692.00

<b>Sub Total</b>		1,18,86,549.00	-	1,18,86,549.00	13,52,278.00	2,37,731.00	-	15,90,009.00	1,02,96,540.00	1,05,34,271.00
<b>Total</b>		1,18,86,549.00	-	1,18,86,549.00	13,52,278.00	2,37,731.00	-	15,90,009.00	1,02,96,540.00	1,05,34,271.00

**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, 2021	Additions/ (Deductions)	As at March 31, 2022	As at April 01, 2021	Depreciation during the year	Adj. during the year	As at March 31, 2022	As at March 31, 2022	As at March 31, 2021
<b>Assets out of Capital Fund</b>	2%- SLM									
<b>Industrial Estate</b>										
During the year 2020-21		9,08,00,106.00		9,08,00,106.00	18,16,002.00	18,16,002.00		36,32,004.00	8,71,68,102.00	8,89,84,104.00
During the year 2021-22			18,64,93,664.00	18,64,93,664.00	-	37,29,873.00		37,29,873.00	18,27,63,791.00	-
<b>Sub Total</b>		<b>9,08,00,106.00</b>	<b>18,64,93,664.00</b>	<b>27,72,93,770.00</b>	<b>18,16,002.00</b>	<b>55,45,875.00</b>	<b>-</b>	<b>73,61,877.00</b>	<b>26,99,31,893.00</b>	<b>8,89,84,104.00</b>
<b>Total</b>		<b>9,08,00,106.00</b>	<b>18,64,93,664.00</b>	<b>27,72,93,770.00</b>	<b>18,16,002.00</b>	<b>55,45,875.00</b>	<b>-</b>	<b>73,61,877.00</b>	<b>26,99,31,893.00</b>	<b>8,89,84,104.00</b>

Description	Depreciation Rate	Gross Block			Depreciation				Net Block	
		As at April 01, 2021	Additions/ (Deductions)	As at March 31, 2022	As at April 01, 2021	Depreciation during the year	Adj. during the year	As at March 31, 2022	As at March 31, 2022	As at March 31, 2021
<b>Assets out of Subsidiaries Fund</b>	2%- SLM									
<b>Industrial Estate</b>										
During the year 2019-20		1,75,76,942.00		1,75,76,942.00	7,03,078.00	3,51,539.00		10,54,617.00	1,65,22,325.00	1,68,73,864.00
<b>Sub Total</b>		<b>1,75,76,942.00</b>	<b>-</b>	<b>1,75,76,942.00</b>	<b>7,03,078.00</b>	<b>3,51,539.00</b>	<b>-</b>	<b>10,54,617.00</b>	<b>1,65,22,325.00</b>	<b>1,68,73,864.00</b>
<b>Total</b>		<b>1,75,76,942.00</b>	<b>-</b>	<b>1,75,76,942.00</b>	<b>7,03,078.00</b>	<b>3,51,539.00</b>	<b>-</b>	<b>10,54,617.00</b>	<b>1,65,22,325.00</b>	<b>1,68,73,864.00</b>

## 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, 2021	Additions	Deductions	As at March 31, 2022
<b>A) WIP Assets out of Non Recurring Grant (OH - 35)</b>				
WIP- Construction of Approach Road for Newly Constructed Underpass below the Railway Track connecting to Academic Campus to Residential Campus	8,61,86,100.00	-	8,61,86,100.00	-
WIP- SITC of Lift at various buildings of MNNIT	2,05,38,258.00	-	-	2,05,38,258.00
WIP- New Academic Building Before Central Library	-	3,08,300.00	-	3,08,300.00
Construction of Boundary Wall-WIP	-	2,20,00,000.00	2,20,00,000.00	-
External Renovation of International House- WIP	41,99,475.00	-	41,99,475.00	-
Provision of Security Light-WIP	99,91,281.00	4,94,991.00	-	1,04,86,272.00
Renovation and External Painting of Buildings-WIP	3,69,74,570.00	-	3,69,74,570.00	-
Renovation and Painting of Hostel- WIP	3,49,15,837.00	-	52,63,136.00	2,96,52,701.00
Widening and Recarpeting of Roads- WIP	5,74,87,000.00	3,99,84,400.00	9,74,71,400.00	-
WIP-Energy Meter in Residential Colony	30,00,000.00	-	30,00,000.00	-
WIP-Wiring in Basement & Ground Floor of Computer Centre Building	14,00,000.00	-	14,00,000.00	-
<b>Total (A)</b>	<b>25,46,92,521.00</b>	<b>6,27,87,691.00</b>	<b>25,64,94,681.00</b>	<b>6,09,85,531.00</b>
<b>B) WIP Assets out of HEFA Loan</b>				
WIP- Construction of Boys Hostel by CPWD	4,21,22,807.00	67,73,98,607.00	1,28,07,475.00	70,67,13,939.00
WIP- Providing & Fixing of Furniture for all rooms, common area, etc for Boys' Hostel by CPWD		70,50,580.00	-	70,50,580.00
WIP- Construction of Multi Storied Faculty Quarters by CPWD		19,59,69,247.00	-	19,59,69,247.00
WIP- Girls Hostel - Aug of Acad Infrastructure by Rites	35,03,48,695.65	1,66,37,065.35		36,69,85,761.00
<b>Total (B)</b>	<b>39,24,71,502.65</b>	<b>89,70,55,499.35</b>	<b>1,28,07,475.00</b>	<b>1,27,67,19,527.00</b>
<b>Total</b>	<b>64,71,64,023.65</b>	<b>95,98,43,190.35</b>	<b>26,93,02,156.00</b>	<b>1,33,77,05,058.00</b>



**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, 2021	Additions/ (Deductions)	As at March 31, 2022	As at April 01, 2021	Depreciation during the year	Adjt during the year	As at March 31, 2022	As at March 31, 2021
<b>Assets out of Capital Fund:</b>	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	17,70,260.00	-		17,70,260.00	-
During the year 2018-19		8,85,000.00		8,85,000.00	8,85,000.00	-		8,85,000.00	-
During the year 2019-20		4,66,518.00		4,66,518.00	3,73,214.00	93,304.00		4,66,518.00	93,304.00
During the year 2020-21		2,62,500.00		2,62,500.00	1,05,000.00	1,05,000.00		2,10,000.00	52,500.00
During the year 2021-22		-	25,08,761.00	25,08,761.00	-	10,03,504.00		10,03,504.00	15,05,257.00
<b>Total</b>		<b>79,24,888.00</b>	<b>25,08,761.00</b>	<b>1,04,33,649.00</b>	<b>76,74,084.00</b>	<b>12,01,808.00</b>	<b>-</b>	<b>88,75,892.00</b>	<b>15,57,757.00</b>

**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, 2021	Additions/ (Deductions)	As at March 31, 2022	As at April 01, 2021	Depreciation during the year	Adjt during the year	As at March 31, 2022	As at March 31, 2021
<b>Assets out of Capital Fund:</b>	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	-

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During the year 2017-18	11,09,123.00	-	11,09,123.00	11,09,123.00	-	11,09,123.00	-	-
During the year 2018-19	1,33,24,339.00		1,33,24,339.00	1,33,24,339.00	-	1,33,24,339.00	-	-
During the year 2019-20	1,25,23,580.00		1,25,23,580.00	1,00,18,864.00	25,04,716.00	1,25,23,580.00	-	25,04,716.00
During the year 2020-21	7,37,19,148.00		7,37,19,148.00	2,94,87,659.00	2,94,87,659.00	5,89,75,318.00	1,47,43,830.00	4,42,31,489.00
During the year 2021-22	-	5,88,13,479.46	5,88,13,479.46	-	2,35,25,392.00	2,35,25,392.00	3,52,88,087.46	-
<b>Total</b>	<b>20,30,23,940.13</b>	<b>5,88,13,479.46</b>	<b>26,18,37,419.59</b>	<b>15,62,87,735.13</b>	<b>5,55,17,767.00</b>	<b>-</b>	<b>21,18,05,502.13</b>	<b>5,00,31,917.46</b>

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	-	-
6. Others (to be specified) (Refer Annexure D-1)	2,32,70,50,615.52	1,05,51,98,912.17
<b>Total</b>	<b>2,32,70,50,615.52</b>	<b>1,05,51,98,912.17</b>

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'D' OF SCH 5

INVESTMENTS

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

(Amount in Rs.)

Particulars	Opening Balance as on 01/04/2021	Deposited during the Year	Transferred/ (Received)	Enchased during the Year	As at March 31, 2022	As at March 31, 2021
<b>General Provident Fund:</b>						
Treasury Account	10,07,349.00				10,07,349.00	10,07,349.00
Fixed Deposit with Bank	29,80,48,174.00	31,69,04,327.00		29,80,48,124.00	31,69,04,377.00	29,80,48,174.00

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Interest Accrued on FDR-GPF	41,80,205.00	1,18,19,485.00		1,18,56,203.00	41,43,487.00	32,20,55,213.00	41,80,205.00
<b>Contributory Provident Fund:</b>							
Fixed Deposit Receipt	92,58,570.00	93,20,360.00		87,58,570.00	98,20,360.00		92,58,570.00
Interest Accrued on FDR-CPF	2,34,582.86	4,84,711.00		5,61,790.00	1,57,503.86	99,77,863.86	2,34,582.86
<b>Corpus Fund:</b>							
Corpus Fund-TDR	72,50,44,485.00	1,70,09,24,865.00	(9,94,35,977.00)	57,86,15,204.00	1,94,67,90,123.00		72,50,44,485.00
Development Fund-TDR	7,06,706.00	7,95,209.00		7,06,706.00	7,95,209.00		7,06,706.00
Maintenance Fund-TDR	7,06,706.00	7,95,209.00		7,06,706.00	7,95,209.00		7,06,706.00
Staff Development Fund-TDR	15,41,909.00	17,35,008.00		15,41,909.00	17,35,008.00	1,95,01,15,549.00	15,41,909.00
Interest Accrued on Corpus fund	1,40,85,312.24	6,63,29,677.00	2,97,907.65	3,54,09,661.00	4,47,07,420.59		1,40,85,312.24
Interest Accrued on Devpt. fund	68,499.94	42,986.00		88,503.00	22,982.94		68,499.94
Interest Accrued on Maintenance fund	68,499.94	42,986.00		88,503.00	22,982.94		68,499.94
Interest Accrued on Staff Development fund	1,49,454.84	93,789.00		1,93,099.00	50,144.84	4,48,03,531.31	1,49,454.84
Corpus Fund- Amount Receivable from Institute	98,458.35	-			98,458.35	98,458.35	98,458.35
<b>Total</b>	<b>1,05,51,98,912.17</b>	<b>2,10,92,88,612.00</b>	<b>(9,91,38,069.35)</b>	<b>93,65,74,978.00</b>		<b>2,32,70,50,615.52</b>	<b>1,05,51,98,912.17</b>

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)	62,99,35,920.00	75,39,38,490.00
<b>Total</b>	<b>62,99,35,920.00</b>	<b>75,39,38,490.00</b>

## 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 01/04/2021	Deposited during the Year	Enchased during the Year	Received/ (Transferred)	As at March 31, 2022		As at March 31, 2021
<b>Institute:</b>							
TDR -- Institute - SBI	53,43,21,521.00	50,84,50,721.00	53,43,21,521.00	(9,94,35,977.00)	40,90,14,744.00		53,43,21,521.00
TDR -- Out of Caution Money	1,02,27,804.00	-	-		1,02,27,804.00	41,92,42,548.00	1,02,27,804.00
<b>Subsidiary Funds:</b>							
T.D.R. with S.N.F.C.E.	2,38,02,189.00	-	-		2,38,02,189.00		2,38,02,189.00
T.D.R. with Student Welfare Fund	2,26,75,283.00	6,65,146.00	-		2,33,40,429.00		2,26,75,283.00
T.D.R. with Industrial Estate	3,04,50,079.00	6,71,619.00	-		3,11,21,698.00		3,04,50,079.00
T.D.R. with G.K. Agarwal Trust	3,00,000.00	-	-		3,00,000.00		3,00,000.00
T.D.R. with R&C Cell	9,43,89,889.00	-	-		9,43,89,889.00		9,43,89,889.00
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	-	32,558.00		3,55,930.00		3,88,488.00
T.D.R. with Sponsored Scholarships & Awards	-	5,00,000.00	5,00,000.00		-		-
T.D.R. with Project Account	3,72,69,237.00	-	-		3,72,69,237.00	21,06,93,372.00	3,72,69,237.00
<b>Total</b>	<b>75,39,38,490.00</b>	<b>51,02,87,486.00</b>	<b>53,48,54,079.00</b>	<b>(9,94,35,977.00)</b>		<b>62,99,35,920.00</b>	<b>75,39,38,490.00</b>

**SCHEDULE FORMING PART OF BALANCE SHEET**  
**SCHEDULE 7- CURRENT ASSETS**

(Amount-Rs)

Particulars	Current Year	Previous Year
<b>1. Stock:</b>		
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		
<b>2. Sundry Debtors:</b>		
a) Debts Outstanding for a period exceeding six months-Industrial Estate	57,31,868.02	73,83,637.02
b) Others	-	-
<b>3. Cash and Bank Balances (to be further classified as pertaining to earmarked fund or otherwise)</b>		
<b>Earmarked Funds</b>		
a) With Scheduled Banks:		
On Current Accounts	-	-
On Saving Accounts (Refer Annexure F (1))	2,69,09,336.53	78,44,00,329.26
<b>Non-Earmarked Funds</b>		
a) With Scheduled Banks:		
On Saving Accounts (Refer Annexure F (2))	1,11,68,46,953.84	86,67,83,050.37
<b>4. Post Office- Savings Accounts</b>	-	-
<b>Total (A)</b>	<b>1,14,94,88,158.39</b>	<b>1,65,85,67,016.65</b>

## SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'F' OF SCH 7

## CURRENT ASSETS

## F1- EARMARKED FUNDS- BALANCE WITH BANKS &amp; IN HAND

(Amount in Rs.)

Particulars	Current Year 2021-22			Previous Year 2020-21		
	Balance with Bank	Balance in Hand	Total Cash & Bank Balance	Balance with Bank	Balance in Hand	Total Cash & Bank Balance
<b>Institute:</b>						
Corpus Fund - SBI SB	90,47,725.87	-	90,47,725.87	77,17,62,662.00	-	77,17,62,662.00
Donation Account- SBI SB	25,34,637.44	-	25,34,637.44	51,70,596.94	-	51,70,596.94
Staff Development Fund- SBI SB	4,83,802.00	-	4,83,802.00	4,62,862.00	-	4,62,862.00
Development/Renewal Fund- SBI SB	4,64,302.00	-	4,64,302.00	4,44,264.00	-	4,44,264.00
Maintenance Fund- SBI SB	4,63,646.00	-	4,63,646.00	4,43,639.00	-	4,43,639.00
GPF-Vijaya Bank SB	83,89,656.00	-	83,89,656.00	14,71,533.00	-	14,71,533.00
CPF-SBI SB	5,33,696.12	-	5,33,696.12	67,148.12	-	67,148.12
New Pension Scheme-Vijaya Bank SB	49,91,871.10	-	49,91,871.10	45,77,624.20	-	45,77,624.20
<b>Total</b>	<b>2,69,09,336.53</b>	<b>-</b>	<b>2,69,09,336.53</b>	<b>78,44,00,329.26</b>	<b>-</b>	<b>78,44,00,329.26</b>

## SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'F' OF SCH 7

## CURRENT ASSETS

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

(Amount in Rs.)

Particulars	Current Year 2021-22			Previous Year 2020-21		
	Balance with Bank	Balance in Hand	Total Cash & Bank Balance	Balance with Bank	Balance in Hand	Total Cash & Bank Balance
<b>Institute:</b>						
Cash in Hand		3,045.00	3,045.00		6,892.00	6,892.00

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With BOB with Autosweep-66	13,16,35,345.99		13,16,35,345.99	35,60,31,356.62		35,60,31,356.62
With BOB with Autosweep-48	16,27,27,972.31		16,27,27,972.31	2,52,83,654.77		2,52,83,654.77
With State Bank of India-Power Jyoti	0.18		0.18	0.06		0.06
With State Bank of India - Fees A/C with Autosweep	53,40,38,546.45		53,40,38,546.45	21,79,67,310.55		21,79,67,310.55
<b>Sub Total</b>	<b>82,84,01,864.93</b>	<b>3,045.00</b>	<b>82,84,04,909.93</b>	<b>59,92,82,322.00</b>	<b>6,892.00</b>	<b>59,92,89,214.00</b>
<b>Subsidiary Funds:</b>						
Admission Committee	7,04,312.00		7,04,312.00	7,04,312.00		7,04,312.00
Industrial Estate	1,34,62,650.01		1,34,62,650.01	73,61,393.29		73,61,393.29
Kitchen Project	6,272.00		6,272.00	6,272.00		6,272.00
Text Book Lending Bank	6,77,203.00		6,77,203.00	6,58,950.00		6,58,950.00
G. K. Agarwal Trust	41,56,629.23		41,56,629.23	40,77,653.23		40,77,653.23
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	2,24,309.00		2,24,309.00
Student Welfare Fund	1,27,71,947.32		1,27,71,947.32	1,07,67,634.22		1,07,67,634.22
SNFCE	37,93,246.00		37,93,246.00	17,49,866.00		17,49,866.00
TEQIP - III	1,54,897.50		1,54,897.50	1,54,767.50		1,54,767.50
Research & Consultancy Cell	8,12,02,401.42		8,12,02,401.42	8,12,02,401.42		8,12,02,401.42
Dean Academic Affairs	9,14,51,869.58		9,14,51,869.58	8,42,40,586.58		8,42,40,586.58
Project Account	7,57,26,399.33		7,57,26,399.33	7,57,26,399.33		7,57,26,399.33
SCST Scholarship	27,23,221.72		27,23,221.72	-		-
Sponsored Scholarships & Awards	4,65,265.00		4,65,265.00	-		-
Sponsored Gold Medal	8,38,650.80		8,38,650.80	5,36,521.80		5,36,521.80
<b>Sub Total</b>	<b>28,84,42,043.91</b>	<b>-</b>	<b>28,84,42,043.91</b>	<b>26,74,93,836.37</b>	<b>-</b>	<b>26,74,93,836.37</b>
<b>Total</b>	<b>1,11,68,43,908.84</b>	<b>3,045.00</b>	<b>1,11,68,46,953.84</b>	<b>86,67,76,158.37</b>	<b>6,892.00</b>	<b>86,67,83,050.37</b>



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

(Amount-Rs)

Particulars	Current Year	Previous Year
<b>1. Advances to employees: (Non-interest bearing)</b>		
a) Salary	-	-
b) Festival	-	-
c) Medical Advance	-	-
d) Other (to be specified) (Refer Annexure G (1) &(2))	38,95,581.00	39,26,361.00
<b>2. Long Term Advances to employees: (Interest bearing)</b>		
a) Vehicle loan	-	-
b) Home loan	-	-
c) Others (to be specified)	-	-
<b>3. Advances and other amounts recoverable in cash or in kind or for value to be received:</b>		
a) On Capital Account (Refer Annexure G (3))	16,80,30,313.30	80,27,18,561.35
b) to suppliers	-	-
c) Others (Refer Annexure G (4))	84,74,681.00	86,15,323.00
<b>4. Prepaid Expenses</b>		
a) Insurance	-	-
b) Other expenses		
Software	-	-
<b>5. Deposits</b>		
a) Telephone	-	-
b) Lease Rent	-	-
c) Electricity	-	-
d) AICTE, if applicable	-	-
e) Others (to be specified)	-	-
<b>6. Income Accrued:</b>		
a) On Investments other than Earmarked/ Endowment Funds (Refer Annexure G (5))	1,46,98,171.38	1,96,31,216.35
b) On Investments-Others	-	-

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c) On Loans and Advances	-	-
d) Others (includes income due unrealized-Rs.....)	-	-
<b>7. Other receivable</b>		
a) Debit balances in Sponsored Projects	-	-
b) Debit balances in Fellowship & Scholarship (Refer Annexure G (6))	45,83,989.00	65,51,936.00
c) Grants Recoverable		-
d) Excess Utilisation Of Grant		-
<b>8. Claims Receivable</b>		-
Tax Deducted at Source	2,51,53,070.00	2,28,49,346.00
GST TDS- R&C Cell	1,05,076.00	1,05,076.00
<b>Total</b>	<b>22,49,40,881.68</b>	<b>86,43,97,819.70</b>

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE G OF SCH 8

LOANS, ADVANCES AND DEPOSITS

(Amount in Rs.)

Particulars	Opening Balance as on 01/04/2021	Advances given during the Current Year 2021-22	Advances Adjusted during the Current Year 2021-22	Journal Entry Adjustments	As at March 31, 2022	As at March 31, 2021
<b>G(1). Advances to Employees</b>						
<b>1. Salary</b>						
Institute-Staff Advances - G-(i)	5,27,122.00	18,56,434.00	17,91,644.00	-	5,91,912.00	5,27,122.00
Institute- Permanent Imprest - G-(ii)	3,34,305.00	9,06,105.00	10,01,675.00	-	2,38,735.00	3,34,305.00
<b>Total</b>	<b>8,61,427.00</b>	<b>27,62,539.00</b>	<b>27,93,319.00</b>	<b>-</b>	<b>8,30,647.00</b>	<b>8,61,427.00</b>
<b>G (2). Advances - Others</b>						
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	11,96,108.00

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Subsidiary-Miscellaneous Advances	8,06,501.00	-	-	-	8,06,501.00	8,06,501.00
<b>Total</b>	<b>30,64,934.00</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>30,64,934.00</b>	<b>30,64,934.00</b>

SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE G OF SCH 8

(Amount in Rs.)

Particulars	Opening Balance as on 01/04/2021	Advances given during the Current Year 2021-22	Advances Adjusted during the Current Year 2021-22	Journal Entry Adjustments	As at March 31, 2022	As at March 31, 2021
<b>G (3) Advances and other amounts recoverable in cash or in kind or for value to be received -- On Capital Account</b>						
Advances for Fixed Assets & Revenue Expenses - G-(iii)	80,04,76,968.35	63,00,70,586.30	1,26,47,58,834.35	-	16,57,88,720.30	80,04,76,968.35
<b>Subsidiary</b>						
Project Account - Advance for Plant and Machinery	22,41,593.00	-	-		22,41,593.00	22,41,593.00
<b>Total</b>	<b>80,27,18,561.35</b>	<b>63,00,70,586.30</b>	<b>1,26,47,58,834.35</b>	<b>-</b>	<b>16,80,30,313.30</b>	<b>80,27,18,561.35</b>
<b>G (4). Advances and other amounts recoverable in cash or in kind or for value to be received -- Others</b>						
<b>Institute</b>						
Recoverable Deposit- Institute- G.I. for Students	-	16,40,256.00	16,40,256.00		-	-
Recoverable Deposit- Institute-Group Insurance Scheme	64,158.00	8,05,304.00	5,54,304.00		3,15,158.00	64,158.00
<b>Subsidiary</b>						
Subsidiary-Dean Academics - Advances	10,38,510.00			-	10,38,510.00	10,38,510.00
Subsidiary-Project Account - Advance & Imprest	3,73,967.00	-	-	-	3,73,967.00	3,73,967.00
R&C Cell - Advances & Imprest	11,91,149.00	-	-	-	11,91,149.00	11,91,149.00
R&C Cell - Receivable against Uncleared Cheque	1,02,630.00			-	1,02,630.00	1,02,630.00

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R&C Cell - Receivable from Project A/c	3,59,727.00	-	-	-	3,59,727.00	3,59,727.00
R&C Cell - Main Office Account	39,153.00	-	-	-	39,153.00	39,153.00
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		5,000.00	5,000.00
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 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 Receivable From Shed Owners	16,47,880.00	-	3,91,642.00		12,56,238.00	16,47,880.00
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
<b>Total</b>	<b>86,15,323.00</b>	<b>24,50,560.00</b>	<b>25,91,202.00</b>	<b>-</b>	<b>84,74,681.00</b>	<b>86,15,323.00</b>

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 01/04/2021	Transactions during the year 2021-22			As at March 31, 2022	As at March 31, 2021
		Debit	Credit	Received		
<b>On Term Deposit</b>						
<b>Institute:</b>						
TDR - Institute	1,85,50,161.35	2,58,16,821.00	3,10,27,684.90	2,97,907.65	1,36,37,205.10	1,85,50,161.35
<b>Subsidiary Funds:</b>						

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T.D.R. with Sponsored Gold Medal	6,739.00	34,394.00	-		41,133.00	6,739.00
T.D.R. with Industrial Estate	-	5,45,867.00	3,85,881.72		1,59,985.28	-
Student Welfare Fund						
T.D.R. with Student Welfare Fund	7,82,390.00	4,50,678.00	6,65,146.00		5,67,922.00	7,82,390.00
T.D.R. out of Caution Money	2,91,926.00	-	-		2,91,926.00	2,91,926.00
<b>Total</b>	<b>1,96,31,216.35</b>	<b>2,68,47,760.00</b>	<b>3,20,78,712.62</b>	<b>2,97,907.65</b>	<b>1,46,98,171.38</b>	<b>1,96,31,216.35</b>

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 01/04/2021		Transaction during the year 2021-22		Closing balance as on 31/03/2022	
	Debit	Credit	Debit	Credit	Debit	Credit
Board of Apprenticeship Training	13,29,636.00		-	13,29,636.00	-	-
CSIR Delhi	7,71,553.00		45,000.00	14,904.00	8,01,649.00	-
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	-
<b>Total</b>	<b>65,51,936.00</b>	<b>-</b>	<b>45,000.00</b>	<b>20,12,947.00</b>	<b>45,83,989.00</b>	<b>-</b>

## 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

Sl. No.	Particulars	Opening Balance	During the year		Closing Balance
			Debit	Credit	
1	Dr. Ajay Bharti		28,084.00	28,084.00	-
2	Dr. Anand Vardhan Pathak	6,000.00		6,000.00	-
3	Shri Anirudh Kumar Chaudhary		21,965.00	21,965.00	-
4	Dr. Anubhav Rawat	10,000.00		10,000.00	-
5	Dr. Anuj Jain	1,012.00		1,012.00	-
6	Dr. Arvind Kumar		18,500.00	18,500.00	-
7	Shri Chandra Bhan Kushwaha	3,000.00	7,000.00	10,000.00	-
8	Dr. Dinesh Kumar		1,09,800.00	1,09,800.00	-
9	Dr. A K Singh CED	72,000.00		72,000.00	-
10	Dr. Ambalika Sinha	(800.00)	800.00		-
11	Dr Arun Prakash		27,900.00		27,900.00
12	Dr. Ashutosh Mani DBT	(308.00)	308.00		-
13	Dr. Audhesh Narayan (Imprest Workshop)	14,605.00		14,605.00	-
14	Dr. Mukesh Kumar	14,950.00	18,180.00	33,130.00	-
15	Dr. P. P. Sahay		21,600.00	21,600.00	-
16	Dr. Rakesh Kumar	2,426.00		2,426.00	-
17	Dr. R. Prabhu Sekar		88,941.00	88,941.00	-
18	Dr. Sadhana Sachan	36,000.00		36,000.00	-
19	Dr. Shailendra Kumar Mishra	1,17,000.00	2,73,000.00	2,30,000.00	1,60,000.00
20	Dr. Tripti Singh		34,400.00	34,400.00	-
21	Dr. Vandana Agrawal		28,636.00	28,636.00	-
22	Shri Duryodhan Lal	6,000.00		6,000.00	-
23	Dr. Dushyant Kumar Singh	40,000.00		40,000.00	-
24	Election Advance	27,000.00			27,000.00

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25	Festival Advance	4,209.00			4,209.00
26	Dr. Haranath Kar	(18,000.00)	18,000.00	-	-
27	Shri Harish Chandra		1,05,673.00		1,05,673.00
28	Shri Kamla Prashad Maurya	9,000.00	2,97,000.00	3,06,000.00	-
29	Dr. Kumar Pallav	14,100.00			14,100.00
30	Dr. Manish Kumar		1,55,000.00	1,55,000.00	-
31	Shri Manjeet Pratap		5,000.00	5,000.00	-
32	Shri Manoj Singh Baunal		62,900.00		62,900.00
33	Dr. Mayank Pandey		50,000.00	50,000.00	-
34	Shri Monujeet Dayal	12,000.00		12,000.00	-
35	Mr. Ram Vijay Singh		60,195.00	45,448.00	14,747.00
36	Dr. M. Venketesh Naik	9,000.00			9,000.00
37	Shri Om Prakash Yadav	12,000.00		12,000.00	-
38	Dr. Pitam Singh		11,900.00	11,900.00	-
39	Dr. Pramod Soni CED		1,64,700.00	1,64,700.00	-
40	Dr. Rama Shankar Yadav	72,000.00		72,000.00	-
41	Dr. Ram Ji Dwivedi	14,795.00			14,795.00
42	Shri Satyajeet Kumar		10,000.00	10,000.00	-
43	Shri Shyam Babu		40,000.00	40,000.00	-
44	Shri Anil Kumar	(5,000.00)	5,000.00		-
45	Shri Arvind Kumar Singh (E)	60.00		60.00	-
46	Shri Brijesh Kumar	12,000.00		12,000.00	-
47	Shri H I Malik	25,000.00			25,000.00
48	Dr. Rajeev Srivastava	6,955.00			6,955.00
49	Shri R. K. Sharma CWM		63,000.00	63,000.00	-
50	Shri Sanjay Yadav	13,960.00			13,960.00
51	Shri Trivikarma		1,05,673.00		1,05,673.00
52	Dr. Swastik Acharya		4,437.00	4,437.00	-
53	Shri Vinod Kr Mishra	(3,842.00)	3,842.00		-
54	Dr. Vishwajeet Pratap Singh		15,000.00	15,000.00	-



<b>Grand Total</b>	<b>5,27,122.00</b>	<b>18,56,434.00</b>	<b>17,91,644.00</b>	<b>5,91,912.00</b>
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**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)	5,000.00		5,000.00	-
2	Dr. A. K. Sachan (Imprest)	10,000.00			10,000.00
3	Shri A. K. Singh AE(E) (Imprest)	10,000.00		15,000.00	(5,000.00)
4	Dr. Ambak Kumar Rai (Imperest)	20,000.00			20,000.00
5	Dr. Amit Dhawan (Imprest)		15,000.00	15,000.00	-
6	Shri Anil Kumar (Imprest)	14,822.00			14,822.00
7	Dr. Anil Kumar Singh Imprest		15,000.00	3,461.00	11,539.00
8	Dr. Animesh Ojha( Imprest)	(11,815.00)			(11,815.00)
9	Dr. Arvind Kumar F/I Vehicle (Imprest)		15,000.00	15,000.00	-
10	Shri Arvind Kumar Singh (Imprest)		15,000.00		15,000.00
11	Dr. Asheesh Kumar Singh (Imprest)	8,198.00		8,198.00	-
12	Dr. Ashutosh Mani (Imprest)		15,000.00	15,000.00	-
13	Dr. Ashutosh Pandey (Imprest)	(1,696.00)			(1,696.00)
14	Dr. Basant Kumar ( Imprest)	10,000.00		10,000.00	-
15	Shri Mohd Danish Ansari (Imperest)		15,000.00	15,000.00	-
16	Dr. Dinesh Singh (Imprest)		15,000.00	15,000.00	-
17	Dr. Divya Kumar (Imprest)	10,000.00		10,000.00	-
18	Dr. Abhishek Kumar, AMD (Imprest)		15,000.00	15,000.00	-
19	Dr. Ashish Kumar Singh (Imprest)		15,000.00	15,000.00	-
20	Dr. Audhesh Narayan (Imprest)		14,605.00		14,605.00
21	Dr. Manisha Sachan (Imprest)		15,000.00	15,000.00	-

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22	Dr. M.M. Gore (Imprest)		20,000.00	20,000.00	-
23	Dr. Naresh Kumar (Imprest)		25,000.00	10,000.00	15,000.00
24	Dr. Navneet Kumar Singh (Imprest)		15,000.00	15,000.00	-
25	Dr. Paulson Samulel (Imprest)		15,000.00	15,000.00	-
26	Dr. Rajesh Kumar Shastri (Imprest)	10,000.00		10,000.00	-
27	Dr. Rajtha B. (Imprest)		15,000.00	15,000.00	-
28	Dr. Ramashankar Yadav (Imprest)		10,000.00	10,000.00	-
29	Dr. Ranvijay (Imprest)		15,000.00	15,000.00	-
30	Dr. Ravindra Tripathi ( Imprest)		15,000.00	15,000.00	-
31	Dr. Shailendra Kumar Mishra (Imprest)		15,000.00	15,000.00	-
32	Dr. Shiv Dutt (Imprest)		15,000.00	15,000.00	-
33	Dr. Tripti Singh ( Imprest )	15,000.00	15,000.00	30,000.00	-
34	Dr. Vibhuti Tripathi (Imprest)		15,000.00		15,000.00
35	Dr. Vishnu Agarwal - Bio Tech (Imprest)		30,000.00	30,000.00	-
36	Dr. V R Komma (Imprest)		15,000.00	15,000.00	-
37	Dr. Geetika (Imprest)	5,000.00		5,000.00	-
38	Shri Gynendra Kumar Tiwari AR (Imprest)		15,000.00	2,918.00	12,082.00
39	Dr. H. S. Goyal (Imprest)		15,000.00	15,000.00	-
40	Dr. K. K. Mishra (Imprest)		15,000.00	15,000.00	-
41	Dr. K. N. Pandey (Imprest)	23,583.00	20,000.00	35,000.00	8,583.00
42	Shri K. N. Singh (Imprest)	20,000.00		20,000.00	-
43	Shri Manas Agrawal (Imprest)		10,000.00	10,000.00	-
44	Smt. Manisha Yadav (Imprest)		15,000.00	15,000.00	-
45	Shri Manish Kumar (EE) (Imprest)	15,000.00	15,000.00		30,000.00
46	Dr. Mayank Pandey (Imprest)		15,000.00	15,000.00	-
47	Dr. Mukesh Kumar (Imprest)	1,432.00	15,000.00	16,432.00	-
48	Dr. Niroj Banerjee (Imprest)	5,000.00			5,000.00
49	Dr. Nitin Singh (Imprest)	6,000.00	15,000.00	21,000.00	-
50	Dr. N. K. Singh (Imprest)		15,000.00	15,000.00	-
51	Dr. P. K. Mehta (Imprest)		15,000.00	15,000.00	-

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52	Dr. Pramod Kumar Yadav (Imprest)	15,000.00			15,000.00
53	Dr. Radharani Mewaram(Imprest)	15,000.00	15,000.00	15,000.00	15,000.00
54	Dr. Rajesh Gupta (Imprest)		30,000.00	30,000.00	-
55	Dr. Rakesh Narayan (Imprest)	3,166.00	15,000.00	18,166.00	-
56	Dr. Ramesh Pandey (Imprest )	25,000.00	15,000.00	15,000.00	25,000.00
57	Dr. Ramji Diwedi (Imprest)		15,000.00	15,000.00	-
58	Dr. Ravi Prakash AMD (Imprest)	5,000.00			5,000.00
59	Dr. Ravi Prakash NBA (Imprest)	2,500.00		2,500.00	-
60	Dr. R. C. Vaisya Imprest		15,000.00	15,000.00	-
61	Shri Ritesh Kumar Sahu (Imprest )	15,000.00	15,000.00	30,000.00	-
62	Dr. R. K. Nagaria (Imprest)		15,000.00	15,000.00	-
63	Dr. R. K. Pandey (Imprest)	5,000.00		5,000.00	-
64	Shri R. K. Sharma (Imperest)	10,000.00	25,000.00	35,000.00	-
65	Dr. R. K. Singh (Imprest)		5,000.00	5,000.00	-
66	Dr. R. K Tripathi (Imprest)	2,500.00	2,500.00	5,000.00	-
67	Dr. R. P. Tiwari (Imprest)	10,000.00			10,000.00
68	Dr. Sarvesh Kumar Tiwari (Imprest)		15,000.00	15,000.00	-
69	Shri Satyajeet Kumar (Imprest)		5,000.00	5,000.00	-
70	Dr. Shivesh Sharma (Imprest)	(2,000.00)	34,000.00	32,000.00	-
71	Shri Sanjay Singh (Imprest)	10,000.00		10,000.00	-
72	Shri Shyam Babu (Imprest)	10,000.00	25,000.00	35,000.00	-
73	Dr. S. J. Pawar (Imprest)	2,000.00		2,000.00	-
74	Dr. Soumendra Sarangi (Imprest)		10,000.00	10,000.00	-
75	Dr. D. S. Kushwaha (Imprest)	15,000.00	15,000.00	30,000.00	-
76	Dr. Sushil Kumar (Imprest)		15,000.00	15,000.00	-
77	Dr. Tamal Ghose (Imprest)		15,000.00	15,000.00	-
78	Dr. Vijay Kumar (Imprest)		15,000.00	15,000.00	-
79	Dr. V. Krishna Rao (Imperest)	5,000.00			5,000.00
80	Dr. V. K Srivastava (Imprest)	10,615.00	10,000.00	10,000.00	10,615.00

<b>Grand Total</b>	<b>3,34,305.00</b>	<b>9,06,105.00</b>	<b>10,01,675.00</b>	<b>2,38,735.00</b>
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## 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 &amp; REVENUE EXPENSES

Sl. No.	Particulars	Opening Balance	During the year		Closing Balance
			Debit	Credit	
1	Balmer Lawrie & Co.	-			-
2	Anjali Electronics	8,100.00			8,100.00
3	Augmentation (other Construction Work)	-	11,18,01,116.00	11,18,01,116.00	-
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 Boundary Wall Receivable		34,69,100.00		34,69,100.00
14	CPWD Advance- New Academic Building		3,63,20,000.00	3,08,300.00	3,60,11,700.00
15	CPWD Advance- Providing & Fixing of Furniture in Boys Hostel		63,73,020.00	70,50,580.00	(6,77,560.00)
16	CPWD Advance- Renovation & Painting of Hostel		1,52,63,136.00		1,52,63,136.00
17	CPWD Advance- Multi Storied Faculty Quarter		21,89,92,720.00	19,59,69,247.00	2,30,23,473.00
18	CPWD Advance- Construction of New Boys Hostel	76,21,79,718.00	19,97,20,000.00	90,62,45,325.00	5,56,54,393.00
19	CPWD - Widening & Recarpeting of Road Receivable		3,97,598.00		3,97,598.00

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20	EDS Technology	1,10,000.00			1,10,000.00
21	Elite Furniture	4,23,162.00			4,23,162.00
22	Gaur Electrical	68,580.00			68,580.00
23	HCL Info System	4,60,634.00			4,60,634.00
24	Hydraulic Engg Instrument	2,80,155.00			2,80,155.00
25	Indian Institute of Foreign Trade	14,935.00			14,935.00
26	Indian Oil Corporation	10,962.00			10,962.00
27	Jamuna Marketing Pvt Ltd	1,87,034.00			1,87,034.00
28	Jay Pee Cement	34,500.00			34,500.00
29	Lab India Instrument	11,703.00			11,703.00
30	Lalji Enterprises	5,000.00			5,000.00
31	Mack Electrical & Equipment	65,350.00			65,350.00
32	Matra Distributor	6,615.00			6,615.00
33	Minimax Electronics	13,208.00			13,208.00
34	M/s Bhargava Tyres	(18,844.00)			(18,844.00)
35	M/s Rites Ltd.	17,04,175.00	1,23,73,272.30	25,775.00	1,40,51,672.30
36	Rites Ltd. - A/c Girls Hostel - RT 5300010	52,34,692.35	2,53,60,624.00	1,66,37,065.35	1,39,58,251.00
37	Peco Cooling Tower	2,13,390.00			2,13,390.00
38	Pericom System	1,75,620.00			1,75,620.00
39	Point Stationery	13,189.00			13,189.00
40	Pragaya Electric Co.	5,625.00			5,625.00
41	Prism Cement	1,47,400.00			1,47,400.00
42	Project Officer Neda	1,35,143.00			1,35,143.00
43	Quartz Marketing System	1,08,061.00			1,08,061.00
44	Rai & Co	1,20,697.00			1,20,697.00
45	Ranial Graphics	92,388.00			92,388.00
46	Richa Medical Agency	(21.00)			(21.00)
47	Sahani Refrigeration	78,690.00			78,690.00
48	Scientech Technologies	9,208.00			9,208.00
49	Shaan Trader	1,29,736.00			1,29,736.00

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50	Sharda Enterprises	3,03,290.00			3,03,290.00
51	Shivam Paints	35,696.00			35,696.00
52	SN Aqua System	69,360.00			69,360.00
53	Spic Macay	10,000.00			10,000.00
54	SRK System	5,600.00			5,600.00
55	Surekha Sales Pvt. Ltd.	8,905.00			8,905.00
56	Surgico Medicare Agency	6,250.00			6,250.00
57	Tele Links	7,065.00			7,065.00
58	Total Presentation Devices	1,68,000.00			1,68,000.00
59	Tritech Enterprises	87,903.00			87,903.00
60	Voltas Ltd	5,34,232.00			5,34,232.00
	<b>Grand Total</b>	<b>80,04,76,968.35</b>	<b>63,00,70,586.30</b>	<b>1,26,47,58,834.35</b>	<b>16,57,88,720.30</b>

SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT

SCHEDULE 9 – ACADEMIC RECEIPTS

(Amount-Rs)

Particulars	Current Year		Previous Year	
<b>Fee from Students</b>				
<b>A. Academic</b>				
<b>Tuition Fees:</b>				
Tuition Fees B.Tech	20,51,62,657.00		15,99,34,036.93	
Tuition Fees MBA	16,80,000.00		21,00,000.00	
Tuition Fees MCA	1,76,40,000.00		1,17,05,000.00	
Tuition Fees M.Tech	5,67,00,000.00		5,77,85,000.00	
Tuition Fees Ph.D	81,60,000.00		78,07,500.00	
Tuition Fees M.Sc.	8,50,500.00		6,90,000.00	
Tuition Fees DASA	7,17,93,936.00		7,46,72,943.92	
<b>Sub Total (a)</b>		<b>36,19,87,093.00</b>		<b>31,46,94,480.85</b>
<b>Admission fee:</b>				

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Registration Fees MCA	-		16,000.00	
Registration Fees PhD	-		61,600.00	
Registration Fees MSC	-		100.00	
Registration Fees B.Tech	1,31,400.00		2,84,300.00	
Day Fees B.Tech	2,61,000.00		4,84,800.00	
Day Fees MCA	-		28,000.00	
Day Fees Ph.D	79,650.00		92,400.00	
M.Tech/Ph.D Admission	53,100.00		-	
<b>Sub Total (b)</b>		<b>5,25,150.00</b>		<b>9,67,200.00</b>
<b>Enrolment Fee (c)</b>	-	-	150.00	<b>150.00</b>
<b>Library fee (d)</b>	5,67,750.00	<b>5,67,750.00</b>	10,40,143.00	<b>10,40,143.00</b>
<b>Laboratory fee:</b>				
Lab Fees B.Tech	4,35,000.00		8,08,250.00	
Lab Fees MCA	-		40,000.00	
Lab Fees Ph.D	1,32,750.00		1,54,000.00	
Lab Fees MSC	-		250.00	
<b>Sub Total (e)</b>		<b>5,67,750.00</b>		<b>10,02,500.00</b>
<b>Enrolment Fee (c)</b>	-	-	150.00	<b>150.00</b>
<b>Library fee (d)</b>	5,67,750.00	<b>5,67,750.00</b>	10,40,143.00	<b>10,40,143.00</b>
<b>Laboratory fee:</b>				
Lab Fees B.Tech	4,35,000.00		8,08,250.00	
Lab Fees MCA	-		40,000.00	
Lab Fees Ph.D	1,32,750.00		1,54,000.00	
Lab Fees MSC	-		250.00	
<b>Sub Total (e)</b>		<b>5,67,750.00</b>		<b>10,02,500.00</b>
<b>Syllabus fee (f)</b>	86,900.00	<b>86,900.00</b>	1,69,600.00	<b>1,69,600.00</b>
<b>B. Examinations</b>				
<b>Admission test fee</b>				
<b>Mark sheet, certificate fee</b>				
<b>Entrance examination fee</b>				



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<b>C. Other fees</b>				
Identity card fee	21,725.00		42,737	
<b>Fine/Miscellaneous fee</b>				
Medical fee	5,67,750.00		10,02,646.00	
<b>Transportation fee:</b>				
Bus Charges from Student	2,00,550.00		3,70,000.00	
<b>Hostel fee</b>				
Institute Fees	9,28,60,000.00		6,38,80,300.00	
Development Fees	2,17,250.00		4,24,350.00	
Magazine Fees	1,61,800.00		2,62,200.00	
Placement Charges	2,61,000.00		5,45,000.00	
Student Welfare Fees	23,97,600.00		28,06,600.00	
Student Activity Fees	87,46,000.00		52,74,000.00	
User Charges Fees	4,77,94,643.00		3,48,13,300.00	
<b>Total</b>		<b>15,32,28,318.00</b>		<b>10,94,21,133.00</b>
<b>D. Sale of publications</b>				
Sale of syllabus and Question Paper, etc.				
Sale of prospectus including admission forms				
<b>E. Other Academic Receipts</b>				
DASA Fees	94,67,651.79	94,67,651.79	86,49,013.00	86,49,013.00
<b>Grand Total</b>		<b>52,64,30,612.79</b>		<b>43,59,44,219.85</b>

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)	42,05,74,748.93	58,24,03,966.65	20,38,45,784.00	1,20,68,24,499.58	1,09,88,57,112.73
Add: Receipts during the year				-	-
Grant amount received (b )	74,42,75,000.00	15,13,20,000.00	68,03,04,000.00	1,57,58,99,000.00	1,54,14,84,000.00
Internal Accrual (Interest received) (c)	3,64,48,562.00	-	-	3,64,48,562.00	2,53,83,091.00

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Total (d = a+b+c)	1,20,12,98,310.93	73,37,23,966.65	88,41,49,784.00	2,81,91,72,061.58	2,66,57,24,203.73
Less: Refund to UGC/Govt of India (e)	3,71,00,000.00		5,39,63,532.00	9,10,63,532.00	-
Balance (f = d-e)	1,16,41,98,310.93	73,37,23,966.65	83,01,86,252.00	2,72,81,08,529.58	2,66,57,24,203.73
Less: Utilised for Capital expenditure (A) (g)	36,48,379.00	45,02,47,065.46	-	45,38,95,444.46	25,72,57,793.00
Less: Utilised for HEFA Loan Interest Repayment (h)	3,64,48,562.00			3,64,48,562.00	2,53,83,091.00
Balance (i= f-g-h)	1,12,41,01,369.93	28,34,76,901.19	83,01,86,252.00	2,23,77,64,523.12	2,38,30,83,319.73
Less: Utilised for Revenue expenditure (B) (j)	56,69,49,155.11	24,69,950.00	62,75,55,735.82	1,19,69,74,840.93	1,17,62,58,820.15
Balance	55,71,52,214.82	28,10,06,951.19	20,26,30,516.18	1,04,07,89,682.19	1,20,68,24,499.58
Balance C/F (k = i-j)	55,71,52,214.82	28,10,06,951.19	20,26,30,516.18	1,04,07,89,682.19	1,20,68,24,499.58

**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	1,44,10,562.00	53,82,603.00
3) Income accrued but not due on Term Deposits/Interest bearing advances to employees (Refer Schedule 2)	7,88,13,624.00	2,29,07,889.00
4) Interest on Saving Bank Accounts	3,95,127.00	3,11,797.00
5) Others		
<b>Total</b>	<b>9,36,19,313.00</b>	<b>2,86,02,289.00</b>
<b>Transferred to Earmarked/Endowment Funds</b>	<b>9,36,19,313.00</b>	<b>2,86,02,289.00</b>

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)	-	-
<b>Total</b>		

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT**

**SCHEDULE 12- INTEREST EARNED**

(Amount-Rs)

Particulars	Current Year	Current Year	Previous Year
1. On Saving Accounts with Scheduled banks			
BOB A/c 66	11,37,209.00		-
BOB A/c 48	1,47,929.00		99,955.00
SBI Fee a/c	2,35,019.00	15,20,157.00	2,80,367.00
2. On Loans			
a) Employees/Staff			
Interest on Other Advance		-	1,099.00
b) Others			
Interest from Income Tax Refund		10,74,850.00	
3. On Debtors and Other Receivables-			
Rites Gurgaon		15,75,865.00	2,16,14,734.00
4. On Term Deposit with Scheduled banks			
BOB A/c 66	28,69,876.00		-
BOB A/c 48	8,40,478.00		43,52,210.00
SBI Fee a/c	3,42,33,891.00	3,79,44,245.00	7,17,57,038.00
<b>Total</b>		<b>4,21,15,117.00</b>	<b>9,81,05,403.00</b>

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

(Amount-Rs)

Particulars	Current Year	Previous Year
<b>A. Income from Land &amp; Building</b>		
<b>1. Hostel Room Rent</b>		
Hostel Fan Charges	300.00	300.00
Hostel Fees	2,55,29,436.00	12,000.00
Hostel Room Rent	750.00	98,575.00
Hostel Utensils	200.00	200.00
Hostel & Colony (User Charges)		
Shop/Canteen Rent, Electric Charges & Water Charges	2,10,668.39	2,13,775.25
Rent from Staff Quarter	77,41,645.30	30,16,890.00
Building Rent	8,78,946.29	1,88,114.36
Income from Guest House	9,84,517.00	9,10,697.00
<b>2. License fee</b>		
<b>3. Hire Charges of Auditorium/Play ground/Convention Centre, etc</b>		
<b>4. Electricity &amp; water charges</b>		
Building/Hostel Electricity Charges	5,29,178.56	2,90,276.64
Water/Electricity Charges from Contractor & Staff Quarter	82,72,616.70	21,36,381.00
<b>Total</b>	<b>4,41,48,258.24</b>	<b>68,67,209.25</b>
<b>B. Sale of Institute's publications</b>	-	-
<b>C. Income from holding events</b>	-	-
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)	-	-

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<b>Total</b>		
<b>D. Others</b>		
1. Income from consultancy	-	-
2. RTI fees	1,350.00	2,260.00
3. Income from Royalty	-	-
4. Sale of application form (recruitment)	-	-
5. Misc. receipts (Sale of tender form, waste paper, etc.)	-	-
6. Profit on Sale/disposal of Assets:		
a) Owned assets	16,306.00	-
b) Assets acquired out of grants, or received free of cost	-	-
7. Grants/Donations from institutions, Welfare Bodies and International Organizations		
8. Others		
Caution Money (Outstanding more than 2 years now taken as income)	15,51,000.00	1,71,30,675.00
GI for Student (Fees)	4,79,737.00	11,67,169.00
Refund of Excess Fees	3,22,550.00	1,39,03,227.40
Computer Stationery Charges	7,00,500.00	11,76,500.00
E-Mail Charges	10,05,000.00	17,50,450.00
Medical Contribution	10,44,900.00	14,56,175.00
Recreation Fees	22,71,000.00	40,10,000.00
Verification of Degree/ Migration/ Mark sheet	6,02,097.59	38,62,177.74
CMDR	23,714.00	3,000.00
Ph.D. Application Form	12,78,000.00	-
Miscellaneous Receipts Institute	11,19,530.77	9,34,833.20
Sale of Tender Form	1,54,223.00	34,100.00
Vehicle Charges	33,923.00	52,147.00
Library Misc Receipt	1,321.00	-
Retention of Service Charges	86,995.00	1,68,072.00
Leave Salary	72,225.00	4,92,654.00
Pension Contribution	5,50,896.00	6,18,947.00
<b>Total</b>	<b>1,13,15,268.36</b>	<b>4,67,62,387.34</b>

<b>Grand Total (A+B+C+D)</b>	<b>5,54,63,526.60</b>	<b>5,36,29,596.59</b>
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**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 on Income Tax Refund	20,99,097.00	-
Interest on FDR	23,86,998.00	-
Interest from Rites Ltd	47,58,031.30	-
Interest on LTC	-	1,524.00
4. Other Income		
Other Income	2,40,803.00	42,158.00
Advance Adjustment	6,642.00	-
<b>Total</b>	<b>94,91,571.30</b>	<b>43,682.00</b>

**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))	-	13,56,59,261.00	44,33,60,001.82	57,90,19,262.82	-	12,45,55,602.00	43,46,65,379.00	55,92,20,981.00
b) Allowances and Bonus (Refer Annexure H (2))	-	4,36,480.00	17,13,76,189.00	17,18,12,669.00	-	99,470.00	14,36,57,937.00	14,37,57,407.00

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c) Contribution to Provident Fund	-	2,29,710.00		2,29,710.00	-	2,23,050.00		2,23,050.00
d) Contribution to Other Fund (specify)				-				-
New Pension Scheme	-	4,19,04,470.00		4,19,04,470.00	-	3,67,64,294.00		3,67,64,294.00
e) Staff Welfare Expenses	-		-	-	-		-	-
f) Retirement and Terminal Benefits (Refer Annexure H (3))	-	21,15,16,948.11		21,15,16,948.11	-	20,13,84,516.00		20,13,84,516.00
g) LTC facility	-		8,50,102.00	8,50,102.00	-		1,51,48,296.00	1,51,48,296.00
h) Medical facility	-		-	-	-		-	-
i) Children Education Allowance	-		49,80,331.00	49,80,331.00	-		22,88,316.00	22,88,316.00
j) Honorarium	-		-	-	-		-	-
k) Others (specify)	-		-	-	-		-	-
<b>Total</b>	-	<b>38,97,46,869.11</b>	<b>62,05,66,623.82</b>	<b>1,01,03,13,492.93</b>	-	<b>36,30,26,932.00</b>	<b>59,57,59,928.00</b>	<b>95,87,86,860.00</b>

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 31/03/2022	Journal Entry Adjustment		Current Year 2021-22	Previous Year 2020-21
		Provision as on 01/04/2021	Provision as on 31/03/2022		
Pay Director & Teaching	35,12,59,573.00	2,96,18,995.00	2,97,04,247.00	35,13,44,825.00	35,08,58,022.00
Pay Administrative Officer	1,59,74,201.00	13,20,600.00	13,15,600.00	1,59,69,201.00	1,55,29,100.00
Pay Other Staff	5,56,59,952.00	41,88,100.00	45,70,950.00	5,60,42,802.00	5,28,90,397.00
Arrear Teaching & Non Teaching	4,90,797.00	-	6,209.00	4,97,006.00	-
Payment to visiting faculty	1,95,06,167.82			1,95,06,167.82	1,53,87,860.00
Pay Contractual Staff	14,45,31,199.00	88,71,938.00	-	13,56,59,261.00	12,45,55,602.00
<b>Total</b>	<b>58,74,21,889.82</b>	<b>4,39,99,633.00</b>	<b>3,55,97,006.00</b>	<b>57,90,19,262.82</b>	<b>55,92,20,981.00</b>



## SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT

ANNEXURE H OF SCH 15

## STAFF PAYMENTS &amp; BENEFITS

## H (2). ALLOWANCES &amp; BONUS

(Amount in Rs.)

Particulars	Expenditure for the year ended on 31/03/2022	Journal Entry Adjustment		Current Year 2021-22	Previous Year 2020-21
		Provision as on 01/04/2021	Provision as on 31/03/2022		
<b>Teaching Staff :</b>					
Dearness Allowance	9,24,00,818.00	50,35,231.00	92,08,317.00	9,65,73,904.00	5,96,49,368.00
HRA	99,11,179.00	7,97,606.00	9,06,786.00	1,00,20,359.00	98,23,566.00
Transport Allowances	1,06,64,775.00	8,80,308.00	10,43,604.00	1,08,28,071.00	1,05,08,668.00
<b>Administrative Officer :</b>					
Dearness Allowance	42,18,616.00	2,24,507.00	4,07,836.00	44,01,945.00	26,39,952.00
HRA	12,01,495.00	90,669.00	1,26,249.00	12,37,075.00	11,18,813.00
Transport Allowances	7,82,334.00	61,074.00	68,382.00	7,89,642.00	7,79,220.00
<b>Other Staff</b>					
Dearness Allowance	1,48,57,740.00	7,11,977.00	14,16,995.00	1,55,62,758.00	8978593.00
HRA	57,09,069.00	3,53,170.00	4,59,196.00	58,15,095.00	4244460.00
Transport Allowances	33,83,358.00	2,36,925.00	3,58,697.00	35,05,130.00	2979990.00
<b>Other Allowances</b>					
Bonus	-				
Special Allowance	7,82,966.00	69,550.00	57,250.00	7,70,666.00	8,96,846.00
Cash Handling Allowance	8,400.00	700.00	700.00	8,400.00	8,400.00
Cumulative Professional Development Allowance	58,75,007.00			58,75,007.00	2,00,51,932.00
Higher Qualification Incentive	29,000.00			29,000.00	-
Earned Leave Encashment on Salary	45,49,049.00	70,317.00	-	44,78,732.00	85,13,611.00
Leave encashment on Retirement	1,12,70,405.00	-	-	1,12,70,405.00	1,32,33,909.00
Deans Honorarium	2,10,000.00	17,500.00	17,500.00	2,10,000.00	2,30,609.00

T.A. on Retirement	4,36,480.00	-		4,36,480.00	99,470.00
<b>Total</b>	<b>16,62,90,691.00</b>	<b>85,49,534.00</b>	<b>1,40,71,512.00</b>	<b>17,18,12,669.00</b>	<b>14,37,57,407.00</b>

**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 31/03/2022	Journal Entry Adjustment		Current Year 2021-22	Previous Year 2020-21
		Provision as on 01/04/2021	Provision as on 31/03/2022		
Commuted Value of Pension	1,02,22,304.00	-	-	1,02,22,304.00	1,76,63,145.00
Gratuity	1,76,26,787.00	-	-	1,76,26,787.00	1,60,92,568.00
Medical Allowance (Pensioner)	43,76,645.00	4,06,000.00	3,77,000.00	43,47,645.00	48,16,000.00
Pension Pay	12,03,39,363.11	25,01,08,078.00	26,66,90,440.00	13,69,21,725.11	13,50,27,239.00
Pension Relief	3,62,52,624.00	20,77,983.00	36,08,394.00	3,77,83,035.00	2,47,20,370.00
Arrears of Pension	46,47,059.00	1,66,496.00	1,34,889.00	46,15,452.00	30,65,194.00
<b>Total</b>	<b>19,34,64,782.11</b>	<b>25,27,58,557.00</b>	<b>27,08,10,723.00</b>	<b>21,15,16,948.11</b>	<b>20,13,84,516.00</b>

**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				-				-
d) Payment to visiting faculty				-				-
e) Examination				-				-

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f) Student Welfare expenses			3,97,762.00	3,97,762.00			4,11,123.00	4,11,123.00
g) Admission expenses				-				-
MBA Admission			2,95,000.00	2,95,000.00			4,10,465.00	4,10,465.00
h) Convocation expenses				-				-
Convocation expenses			3,89,650.00	3,89,650.00			12,87,634.00	12,87,634.00
i) Publications				-				-
j) Stipend/means-cum-merit scholarship				-				-
Stipend M Tec		13,96,53,361.00		13,96,53,361.00		9,15,33,015.00		9,15,33,015.00
Stipend Ph.D		14,34,46,204.00		14,34,46,204.00		12,81,27,850.00		12,81,27,850.00
Merit Scholarship		31,20,000.00		31,20,000.00		30,60,000.00		30,60,000.00
k) Subscription Expenses				-				-
l) Others (specify)				-				-
User Charges (Expense)				-			1,96,717.00	1,96,717.00
Refund of Excess Fees			1,09,82,214.00	1,09,82,214.00			79,13,819.00	79,13,819.00
Student Club/ Student Activity Centre			26,93,861.00	26,93,861.00			33,30,657.50	33,30,657.50
<b>Total</b>		<b>- 28,62,19,565.00</b>	<b>1,47,58,487.00</b>	<b>30,09,78,052.00</b>		<b>- 22,27,20,865.00</b>	<b>1,35,50,415.50</b>	<b>23,62,71,280.50</b>

**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
<b>A. Infrastructure</b>										-
a) Electricity and power										-
Colony				62,26,500.00	62,26,500.00				16,38,000.00	16,38,000.00
Hostel				7,78,000.00	7,78,000.00				8,34,088.00	8,34,088.00
Institute			4,28,29,284.00		4,28,29,284.00			4,55,45,941.00		4,55,45,941.00

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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			33,61,932.00	33,61,932.00
Water Tax			50,42,934.00		50,42,934.00			50,42,934.00	50,42,934.00
<b>B. Communication</b>					-				-
e) Postage & telegram			34,999.00		34,999.00			47,698.00	47,698.00
f) Telephone and Internet Charges					-				-
Telephone Expenses	16,73,008.00		4,68,884.00		21,41,892.00	19,37,831.00		3,46,375.00	22,84,206.00
Rental Charges of Internet Bandwidth (Internet Charges)			33,90,352.00		33,90,352.00			33,90,857.00	33,90,857.00
<b>C. Others</b>					-				-
g) Printing and Stationary			4,91,493.00		4,91,493.00			5,18,392.00	5,18,392.00
h) Travelling and Conveyance Expenses			5,26,541.00		5,26,541.00			5,28,113.00	5,28,113.00
j) Hospitality					-				-
j) Auditors Remuneration					-				-
Audit Fees AGUP			2,24,900.00		2,24,900.00			7,37,500.00	7,37,500.00
Chartered Accountant Fees			2,77,300.00		2,77,300.00			3,13,300.00	3,13,300.00
k) Professional Charges					-				-
l) Advertisement and Publicity					-				-
Advertisement			7,58,843.00		7,58,843.00			26,534.00	26,534.00
m) Magazines & Journals					-				-
Library & E-Journals		29,271.00			29,271.00	1,02,810.00			1,02,810.00
n) Others (specify)					-				-
Legal Expenses			1,52,400.00		1,52,400.00			31,400.00	31,400.00
Library Operating Cost (Incl TLB)			6,48,263.00		6,48,263.00			3,27,287.00	3,27,287.00
Liveries to Staff			1,70,000.00		1,70,000.00			1,90,000.00	1,90,000.00
Utensil Charges					-			1,988.00	1,988.00
Miscellaneous Contingencies			26,59,666.00		26,59,666.00			22,94,493.00	22,94,493.00

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Misc. Expenses- hostel			3,31,382.00		3,31,382.00			15,07,413.00		15,07,413.00
Security Charges			5,95,15,563.00		5,95,15,563.00			6,20,53,937.00		6,20,53,937.00
Recreation Club Teaching & Non Teaching			-		-			75,000.00		75,000.00
Retention of Service Charges				86,995.00	86,995.00				1,68,072.00	1,68,072.00
Executive Development Centre			4,52,443.00		4,52,443.00			67,793.00		67,793.00
Medical Reimbursement	67,54,429.00				67,54,429.00	61,72,820.00				61,72,820.00
Medicine including Doctors visit Fees	45,76,341.00				45,76,341.00	53,84,286.00				53,84,286.00
NIT Transit House Contribution			-		-			3,50,000.00		3,50,000.00
B.O.G & Meetings			7,87,726.00		7,87,726.00			10,88,250.00		10,88,250.00
Seminar & Conference			2,57,200.00		2,57,200.00			17,000.00		17,000.00
Application fees for appointment				1,52,871.00	1,52,871.00				1,64,488.66	1,64,488.66
Hostel & Colony (User Charges)				1,40,000.00	1,40,000.00				87,701.00	87,701.00
Campus Interview & Placement				-	-				29,672.00	29,672.00
NCC/NSS			20,485.00		20,485.00			2,30,951.00		2,30,951.00
o) Purchase/ Consumables (As per Annexure I)			1,19,86,111.00		1,19,86,111.00			94,60,269.00		94,60,269.00
<b>Total</b>	<b>1,30,03,778.00</b>	<b>29,271.00</b>	<b>13,43,88,701.00</b>	<b>73,84,366.00</b>	<b>15,48,06,116.00</b>	<b>1,34,94,937.00</b>	<b>1,02,810.00</b>	<b>13,75,53,369.00</b>	<b>29,24,009.66</b>	<b>15,40,75,125.66</b>

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 2021-22	Previous Year 2020-21
<b>Purchases - Consumables-(U.G.&amp;P.G.)</b>		
Applied Mechanics Department	9,50,677.00	3,72,274.00
Biotech Department	9,44,031.00	11,40,703.00
Chemistry Department	4,59,912.00	2,26,314.00
Civil Engineering Department	6,88,424.00	8,71,214.00
Computer Science Department	15,63,483.00	14,61,437.00
Electronics and Communication Engineering Department	3,77,018.00	1,99,628.00

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Electrical Engineering Department	12,60,573.00	5,66,646.00
GIS Cell	4,28,420.00	1,85,996.00
Humanities Department	92,433.00	2,89,661.00
Computer Centre	26,992.00	1,10,669.00
Maths Department	13,207.00	2,05,016.00
Mechanical Engineering Department	14,42,552.00	7,47,176.00
SMS/MBA Operating Cost	4,15,950.00	4,11,163.00
Physics Department	3,01,105.00	5,02,233.00
Training & Placement	88,916.00	1,57,932.00
Workshop - Mechanical Department	8,24,849.00	4,38,606.00
Chemical - Engineering Department	10,59,590.00	9,99,854.00
Centre for Interdisciplinary Research	2,46,178.00	4,32,506.00
CMDR	8,01,801.00	1,31,525.00
Raw Material Lab	-	9,716.00
<b>Total</b>	<b>1,19,86,111.00</b>	<b>94,60,269.00</b>

**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	-	5,98,924.00	5,98,924.00	-	7,74,339.00	7,74,339.00
2. Vehicles taken on rent/lease	-	-	-	-	-	-
a) Rent/lease expenses						-
3. Vehicle (Taxi) Hiring Expenses						
<b>Total</b>	<b>-</b>	<b>5,98,924.00</b>	<b>5,98,924.00</b>	<b>-</b>	<b>7,74,339.00</b>	<b>7,74,339.00</b>

## SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT

## SCHEDULE 19 – REPAIRS &amp; MAINTENANCE

(Amount-Rs)

Particulars	Current Year			Previous Year		
	Non-Recurring (OH-35)	Recurring (OH-31)	Total	Non-Recurring (OH-35)	Recurring (OH-31)	Total
<b>a) Building</b>						
Renovation of Building Structure		87,25,106.00	87,25,106.00		1,51,01,515.00	1,51,01,515.00
<b>b) Furniture &amp; Fixture</b>			-			-
Maintenance of Furniture			-			-
<b>c) Plant &amp; Machinery</b>			-			-
<b>d) Office Equipments</b>						
Maintenance of Computer & Equipment		36,91,542.00	36,91,542.00		49,80,088.00	49,80,088.00
General Utility Equipment	24,40,679.00		24,40,679.00	32,03,965.00		32,03,965.00
<b>e) Computers</b>			-			-
<b>f) Laboratory &amp; Scientific Equipment</b>			-			-
<b>g) Audio Visual Equipment</b>			-			-
<b>h) Cleaning Material &amp; Services</b>			-			-
<b>i) Book binding charges</b>			-			-
<b>j) Gardening Expenses</b>						
Maintenance Lawns & Gardens		89,549.00	89,549.00		1,71,133.00	1,71,133.00
<b>k) Estate Maintenance</b>			-			-
<b>l) Others (specify)</b>						
Renovation of Electric System & Facilities		52,68,259.00	52,68,259.00		76,51,097.00	76,51,097.00
<b>Total</b>	<b>24,40,679.00</b>	<b>1,77,74,456.00</b>	<b>2,02,15,135.00</b>	<b>32,03,965.00</b>	<b>2,79,03,833.00</b>	<b>3,11,07,798.00</b>



**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			2,13,074.71	2,13,074.71	-	-	1,84,723.86	1,84,723.86
b) Others (Specify)				-	-	-	-	-
<b>Total</b>	-	-	<b>2,13,074.71</b>	<b>2,13,074.71</b>	-	-	<b>1,84,723.86</b>	<b>1,84,723.86</b>

**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)	User Expenses	Total	Non-Recurring (OH-35)	Recurring (OH-31)	Total
a) Provision for Bad and Doubtful Debts/Advances				-	-	-	-
b) Irrecoverable Balances Written-off			10,63,723.00	10,63,723.00	-	-	-
c) Grants/Subsidiaries to other institutions/ organisations				-	-	-	-
d) Others (specify)				-			-
GST Expense		90,954.00		90,954.00			
DASA Payment			18,26,805.00	18,26,805.00			
Govt. Schemes and Programs		1,66,944.00		1,66,944.00		10,45,794.00	10,45,794.00
<b>Total</b>	-	<b>2,57,898.00</b>	<b>28,90,528.00</b>	<b>31,48,426.00</b>	-	<b>10,45,794.00</b>	<b>10,45,794.00</b>

**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			7,82,902.90	7,82,902.90				-
Excess Income Booked (Misc Receipts & Vehicle Charges)			30,200.00	30,200.00				
Advance & Imprest Adjustment			25,888.00	25,888.00			38,848.00	38,848.00
<b>Total</b>	-	-	<b>8,38,990.90</b>	<b>8,38,990.90</b>	-	-	<b>38,848.00</b>	<b>38,848.00</b>

**SCHEDULE FORMING PART OF THE ACCOUNTS FOR THE YEAR 2021-22  
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 and corresponding interest on unutilised amount earned as income from savings bank and sweep account has been taken as liabilities. 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 2021-22 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. 24,85,54,503.4/- has been transferred from Capital Fund of the Institute to Corpus Fund separately maintained alongwith corresponding Investment in FDR and Accrued Interest as on 31.03.2022 in terms of 52 FC-52.06

Amount of Rs 14,94,16,434.00/- is transferred to bank account of corpus related to FY 2020-21 and correspondingly FDR in the name of institute has been received back from Corpus and corresponding entries has been duly made. Interest earned on said FDR's has been booked as the income of Institute.

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.

Subsidiary account of R&C Cell and Project have not been incorporated with the accounts, hence figures of those accounts are to be considered separately.

Subsidiary account of Nodal Centre & PDTC has been closed hence not incorporated during the year, however closing entries in institute books is to be passed.

Subsidiary account of SC/ST Scholarship and Sponsored Scholarships & Awards has been incorporated in current financial year with opening balances.

Balance of Sponsored Fellowship and Scholarship has been written off during the year as the project was closed

Interest accrued and TDS deducted thereon for subsidiaries has been taken to the extent such informations are made available and provided by the subsidiaries.

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 2021-22 is :-

Earnings: Nil

Outgo: USD 6,60,515.98/-, GBP 52,905.50/- and Euro 22,695.00/-

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. 25,67,09,120/- 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.

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.

Receipt of Income tax refund has been duly incorporated with corresponding recording of interest received on such refund, relating to current year and pervious years.

Reconciliation of TDS deducted of the Institute and as reflecting in Form 26AS with books of Account is pending.

Caution Money amounting to Rs 15,51,000/- lying as liability for more than 2 years now has been taken as Income as per the Institute Statute.

GI for Student amounting to Rs 4,79,737/- lying as liability has been taken as Income as per the Institute policy.

Amount of Rs 46,16,586 wrongly booked in earlier years in WIP Boys Hostel Account and Rs 33,53,998/- included in CPWD Advance for Boys Hostel now corrected and transferred to Fixed Assets building account and depreciation on the same has been charged from current year, corresponding corrections has been made in grant utilisation schedule

Amount of Rs 65,00,00/- wrongly booked under CPWD Advance for Boys Hostel Account now corrected and transferred to RITES Advance Account

Amount of Rs 52,63,136/- excess booked in earlier years under WIP-Renovation & Painting of Hostel has been now corrected and amount transferred back to CPWD Advance towards Renovation & Painting of Hostels.

Amount of Rs 81,90,889/- wrongly booked in earlier year under WIP Boys Hotel Account has now been corrected and transferred to Fixed Assets Building Account and depreciation on the same has been charged from current year.

Amount of Rs 30,200/- towards sale of fixed assets of vehicle wrongly booked in earlier year under Misc Receipts Rs 7,500/- and under Vehicle Charges Rs 22,700/- has now been corrected and debited to Prior Period Expenses in current year

**SCHEDULE FORMING PART OF THE ACCOUNTS FOR THE YEAR 2021-2022**

**SCHEDULE 24 - CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS**

**Contingent Liabilities**

As on 31.03.2022 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 31.03.2022 - 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 2021-22		Previous Year 2020-21
<b>1) Interest Received</b>			
<b>a) On Term Deposits with Scheduled Banks:</b>			
Dean Academic Affairs- Autosweep	17,96,835.00		38,48,798.00
G. K. Agarwal Trust	1,81,921.00		68,006.00
Industrial Estate	24,33,648.00		22,24,695.28
Project Account	-		69,05,740.00
Research & Consultancy Cell	-		91,56,867.00
SNFCE	13,11,708.00		13,36,935.00
Sponsored Gold Medal	50,892.00		68,609.00

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Sponsored Scholarships & Awards	10,167.00		
Student Welfare Fund	18,45,385.00		22,57,458.00
TEQIP - II	-	76,30,556.00	-
<b>b) On Savings Account with Scheduled Bank:</b>			
Dean Academic Affairs	8,59,800.00		6,54,437.00
G. K. Agarwal Trust	1,221.00		5,645.00
Industrial Estate	11,652.00		8,204.00
Project Account	-		88,265.00
Research & Consultancy Cell	-		29,945.00
SNFCE	55,492.00		45,601.00
Sponsored Gold Medal	1,352.00		1,620.00
Student Welfare Fund	18,826.00		17,195.00
SCST Scholarship	82,543.00		
Sponsored Scholarships & Awards	5,098.00		
TEQIP - II	130.00		235.00
Text Book Lending Bank	18,253.00	10,54,367.00	18,656.00
<b>2) Revenue Income:</b>			
Dean Academic Affairs	1,32,31,406.00		2,71,22,141.00
G. K. Agarwal Trust	-		36,64,250.00
Industrial Estate	35,65,252.00		5,75,229.00
Project Account	-		17,75,534.00
Research & Consultancy Cell	-		1,95,61,796.00
SNFCE	17,50,000.00		-
Student Welfare Fund	22,24,882.00		24,96,139.00
SCST Scholarship	23,45,103.00		
TEQIP II	1,17,583.00		2,11,61,568.00
Sponsored Gold Medal	3,00,000.00	2,35,34,226.00	149.00
<b>Total</b>		<b>3,22,19,149.00</b>	<b>10,30,93,717.28</b>



**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT**

**ANNEXURE (ii) OF SCH 1 (A-1)**

**EXPENDITURE OF SUBSIDIARIES**

**(Amount in Rs.)**

<b>Particulars</b>	<b>Current Year 2021-22</b>	<b>Previous Year 2020-21</b>
Dean Academic Affairs	82,45,035.00	80,34,346.00
G. K. Agrawal Trust	1,04,166.00	5,89,607.97
Industrial Estate	9,39,104.00	10,02,419.00
Project Account	-	13,93,751.40
Research & Consultancy Cell	-	26,10,861.16
School of Non Formal Continuing Education	10,75,473.00	11,28,628.00
Sponsor Gold Medal	46,251.00	97,679.40
Sponsor Gold Medal	-	8,01,637.00
Student Welfare Fund	15,82,746.90	5,70,285.40
Student Welfare Fund- Prior Period	-	1,38,70,267.89
SCST Scholarship	22,21,402.00	
Sponsored Scholarships & Awards	50,000.00	
TEQIP - II	1,17,583.00	69,36,596.00
<b>Total</b>	<b>1,43,81,760.90</b>	<b>3,70,36,079.22</b>

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT**

**ANNEXURE (iii) OF SCH 1 (A-1)**

**DEPRECIATION OF SUBSIDIARIES**

**(Amount in Rs.)**

<b>Particulars</b>	<b>Current Year 2021-22</b>	<b>Previous Year 2020-21</b>
Dean Academic Affairs	1,72,730.00	1,20,099.00
Industrial Estate	3,62,550.00	3,62,550.00
Nodal Centre (NTMIS)	4,680.00	4,680.00
Project Account	67,57,319.00	72,33,970.00
Research & Consultancy Cell	3,34,657.00	3,34,657.00

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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	58,48,206.00	58,48,206.00
<b>Total</b>	<b>1,35,89,184.00</b>	<b>1,40,13,204.00</b>

RECEIPT & PAYMENT ACCOUNT FOR THE YEAR ENDING 31ST MARCH, 2022

(Amount in Rs.)

Receipts	Current Year		previous year	
<b>I. Opening Balance:</b>				
<b>Cash in Hand</b>		6,892.00		6,400.00
<b>Bank Account:</b>				
State Bank of India - Power Jyoti	0.06		0.41	
State Bank of India - New Fees Account	21,79,67,310.55	21,79,67,310.61	11,53,19,618.76	11,53,19,619.17
<b>Savings Account &amp; Autosweep:</b>				
BOB-66	35,60,31,356.62		12,53,60,613.70	
BOB-48	2,52,83,654.77	38,13,15,011.39	11,61,41,920.89	24,15,02,534.59
<b>In Fixed Deposits with Banks:</b>				
Institute				
State Bank of India	53,43,21,521.00		57,01,33,992.00	
<b>Caution Money</b>				
State Bank of India	17,27,804.00		17,27,804.00	
<b>Vijaya Bank</b>	85,00,000.00	54,45,49,325.00	85,00,000.00	58,03,61,796.00
<b>Earmarked and Endowment Fund:</b>				
<b>Contributory Provident Fund:</b>				
Contributory Provident Fund (SB)	67,148.12		1,13,413.12	
Contributory Provident Fund FDR	92,58,570.00		85,03,277.00	
<b>General Provident Fund:</b>				
General Provident Fund - with Treasury	10,07,349.00		10,07,349.00	
General Provident Fund - with Vijaya Bank (FDR)	29,80,48,174.00		28,35,77,631.00	

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General Provident Fund - with Vijaya Bank (SB)	14,71,533.00		29,40,967.00	
<b>Corpus Fund</b>				
Corpus Fund-with (SBI-SB)	77,17,62,662.00		75,84,14,051.00	
Corpus Fund-with (SBI-FDR)	72,50,44,485.00		55,84,81,753.00	
<b>Development/Renewal Fund</b>				
Development/Renewal Fund (SBI-SB)	4,44,264.00		4,23,042.00	
Development/Renewal Fund (SBI-FDR)	7,06,706.00		7,06,706.00	
<b>Maintenance Fund</b>				
Maintenance Fund (SBI-SB)	4,43,639.00		4,22,449.00	
Maintenance Fund (SBI-TDR)	7,06,706.00		7,06,706.00	
<b>Staff Development Fund</b>				
Staff Development Fund (SBI-SB)	4,62,862.00		4,40,574.00	
Staff Development Fund (SBI-TDR)	15,41,909.00		15,41,909.00	
<b>New Pension Scheme:</b>				
Vijaya Bank Saving Account	45,77,624.20		69,31,541.30	
Vijaya Bank Autosweep FDR	-		-	
<b>Donation Fund Account</b>				
Donation Fund Account (SBI-SB)	51,70,596.94	1,82,07,14,228.26		1,62,42,11,368.42
<b>In Subsidiary Funds:</b>				
<b>Admission Committee</b>	7,04,312.00		7,04,312.00	
<b>Dean Academic Affairs</b>	8,42,40,586.58		6,11,16,035.58	
<b>G. K. Agarwal Trust :</b>				
Savings Account:	40,77,653.23		9,34,461.20	
Fixed Deposits	3,00,000.00		3,00,000.00	
<b>Industrial Estate</b>				
Current Account	73,61,393.29		39,42,626.01	
Fixed Deposits	3,04,50,079.00		2,85,25,216.00	
<b>Kitchen Project</b>	6,272.00		6,272.00	
<b>Nodal Centre</b>	82,770.00		82,770.00	
<b>P.D.T.C.</b>	2,24,309.00		2,24,309.00	

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<b>Project Account</b>				
Savings & AutoSweep Account	7,57,26,399.33		10,02,59,396.73	
Fixed Deposits	3,72,69,237.00		3,52,24,224.00	
<b>Research &amp; Consultancy Cell :</b>				
Savings & AutoSweep Account	8,12,02,401.42		5,59,77,820.58	
Fixed Deposits	9,43,89,889.00		9,00,91,287.00	
<b>School of Non Formal Continuing Education :</b>				
Current Account	17,49,866.00		14,95,958.00	
Fixed Deposits	2,38,02,189.00		2,38,02,189.00	
<b>Sponsored Gold Medal</b>				
Savings Account	5,36,521.80		14,73,236.20	
Fixed Deposits	3,88,488.00		3,88,488.00	
<b>Student Welfare Fund :</b>				
Savings Account	1,07,67,634.22		2,33,13,809.51	
Fixed Deposits	2,26,75,283.00		2,05,82,050.00	
<b>TEQIP - II</b>				
Savings Account	1,54,767.50		1,54,532.50	
Fixed Deposits	1,14,000.00		1,14,000.00	
<b>Text Book Lending Bank</b>	6,58,950.00	47,68,83,001.37	6,40,294.00	44,93,53,287.31
<b>SCST Scholarship (Opening Bank Balance)</b>	25,16,977.72			
<b>Sponsored Scholarships &amp; Awards (Opening Bank Balance)</b>	5,00,000.00	30,16,977.72		
<b>II. Grant Received:</b>				
<b>a) From Government of India</b>				
Non Plan (Recurring) Grant	74,42,75,000.00		78,66,75,000.00	
Plan (Non Recurring) Grant	15,13,20,000.00		11,00,00,000.00	
Plan (Non Recurring) Grant	68,03,04,000.00	1,57,58,99,000.00	64,48,09,000.00	1,54,14,84,000.00
<b>III. Academic Receipts:</b>				
<b>Tuition Fees:</b>				
Tuition Fees B.Tech.	20,51,62,657.00		15,99,34,036.93	
Tuition Fees MBA	16,80,000.00		21,00,000.00	

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Tuition Fees MCA	1,76,40,000.00		1,17,05,000.00
Tuition Fees M.Tech.	5,67,00,000.00		5,77,85,000.00
Tuition Fees Ph.D.	81,60,000.00		78,07,500.00
Tuition Fees M.Sc.	8,50,500.00		6,90,000.00
Tuition Fees DASA	7,17,93,936.00		7,46,72,943.92
<b>Registration fee:</b>			
Registration Fees MCA	-		16,000.00
Registration Fees Ph.D.	-		61,600.00
Registration Fees MSC	-		100.00
Registration Fees B.Tech.	1,31,400.00		2,84,300.00
Day Fees B.Tech.	2,61,000.00		4,84,800.00
Day Fees MCA	-		28,000.00
Day Fees Ph.D.	79,650.00		92,400.00
M.Tech./Ph.D. Admission	53,100.00		-
<b>Enrolment Fee</b>	-		150.00
<b>Library Admission fee</b>	5,67,750.00		10,40,143.00
<b>Laboratory fee:</b>			
Lab Fees B.Tech.	4,35,000.00		8,08,250.00
Lab Fees MCA	-		40,000.00
Lab Fees Ph.D.	1,32,750.00		1,54,000.00
Lab Fees MSC	-		250.00
<b>Others Fees</b>			
<b>Syllabus fee</b>	86,900.00		1,69,600.00
<b>Identity card fee</b>	21,725.00		42,737.00
<b>Medical fee</b>	5,67,750.00		10,02,646.00
<b>Transportation fee:</b>			
Bus Charges from Student	2,00,550.00		3,70,000.00
<b>Institute Fees</b>	9,28,60,000.00		6,38,80,300.00
<b>Development Fees</b>	2,17,250.00		4,24,350.00
<b>Magazine Fees</b>	1,61,800.00		2,62,200.00

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<b>Placement Charges</b>	2,61,000.00		5,45,000.00	
<b>Student Welfare Fees</b>	23,97,600.00		28,06,600.00	
<b>Student Activity Fees</b>	87,46,000.00		52,74,000.00	
<b>User Charges Fees</b>	4,77,94,643.00		3,48,13,300.00	
<b>NRI- Other Fees</b>	94,67,651.79	52,64,30,612.79	86,49,013.00	43,59,44,219.85
<b>IV. Receipts Against Earmarked/Endowment Funds</b>				
<b>Contributory Provident Fund:</b>				
Subscription	4,58,280.00		4,45,000.00	
<b>General Provident Fund:</b>				
Subscription	3,95,95,946.00		3,96,71,774.00	
<b>New Pension Scheme</b>				
Subscription and Loan Recovery	7,10,80,370.00		6,29,04,195.00	
<b>Donation Fund Account</b>				
Donation Received	-		51,51,467.94	
<b>Corpus Fund</b>				
Contribution from Tequip II, R & C, CSAB & DASA	16,07,08,975.87		99,48,828.00	
<b>Development/Renewal Fund</b>				
Contribution from Tequip II	-		-	
<b>Maintenance Fund</b>				
Contribution from Tequip II	-		-	
<b>Staff Development Fund</b>				
Contribution from Tequip II	-	27,18,43,571.87	-	11,81,21,264.94
<b>V. Receipts Against Sponsored Fellowships and Scholarship:</b>				
<b>Institute</b>				
Outside Scholarship	91,36,638.00		51,34,720.00	
CSIR Delhi	14,904.00		49,950.00	
<b>Subsidiaries</b>				
<b>Project Account :</b>				
Project (Running)	-		3,08,63,234.00	
Project (Differed Grant)	-		3,16,50,632.00	

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R&C Cell (Differed Grant)	-	91,51,542.00	7,61,337.00	6,84,59,873.00
<b>VI. Income on Investment From</b>				
<b>a) Earmarked/ Endowment Fund:</b>				
<b>Contributory Provident Fund:</b>				
Interest on Contributory Provident Fund	5,70,058.00		2,64,028.00	
<b>General Provident Fund:</b>				
Interest on General Provident Fund	1,19,93,706.00		1,56,26,593.00	
Reversal of Bank Charges	-		413.00	
<b>Corpus Fund</b>				
Revenue Income	4,96,98,131.00		50,45,345.00	
<b>Development/Renewal Fund</b>				
Revenue Income	1,08,601.00		22,753.00	
<b>Maintenance Fund</b>				
Revenue Income	1,08,570.00		22,718.00	
<b>Staff Development Fund</b>				
Revenue Income	2,14,116.00		23,913.00	
<b>New Pension Scheme</b>				
Interest on Autosweep	1,88,835.00		3,99,760.00	
Interest on saving bank	23,671.00		18,879.00	
<b>Donation Fund Account</b>				
Interest on Autosweep	587.00			
Interest on saving bank	97,173.00		19,129.00	
<b>Subsidiary Funds</b>				
Dean Academics	1,32,31,406.00		2,71,22,141.00	
G. K. Agrawal Trust	-		36,64,250.00	
Industrial Estate	39,51,133.72		25,00,092.00	
Project Account	-		17,75,534.00	
Research & Consultancy Cell	-		1,95,61,796.00	
SNFCE	17,50,000.00		-	
Student Welfare Fund	22,24,882.00		24,96,139.00	



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SCST Scholarship	23,45,103.00			
TEQUIP	1,17,583.00		2,11,61,568.00	
Sponsored Gold Medal	3,00,000.00		149.00	
Text Book Lending Bank	-	8,69,23,555.72	-	9,97,25,200.00
<b>VII. Interest Received On:</b>				
<b>Term Deposits/Sweep Deposits:</b>				
Main Institute	4,23,72,196.00		10,23,81,749.00	
Interest on Unutilised Grant	17,91,854.00		35,34,756.00	
<b>Subsidiary Funds:</b>				
Dean Academics	17,96,835.00		38,48,798.00	
G. K. Agarwal Trust	1,81,921.00		68,006.00	
Industrial Estate	18,87,781.00		15,40,009.28	
Project Account	-		69,05,740.00	
Research & Consultancy Cell	-		91,56,867.00	
School of Non Formal Continuing Education	13,11,708.00		13,36,935.00	
Sponsored Gold Medal	16,498.00		64,305.00	
Sponsored Scholarships & Awards	10,167.00			
Student Welfare Fund	20,59,853.00		15,84,743.00	
<b>Savings Bank:</b>				
Main Institute	15,20,157.00		3,80,322.00	
Interest on Unutilised Grant	2,57,921.00		11,95,087.00	
<b>Subsidiary Funds:</b>				
Dean Academic Affairs	8,59,800.00		6,54,437.00	
G. K. Agarwal Trust	1,221.00		5,645.00	
Industrial Estate	11,652.00		8,204.00	
Project Account	-		88,265.00	
Research & Consultancy Cell	-		29,945.00	
School of Non Formal Continuing Education	55,492.00		45,601.00	
Sponsored Gold Medal	1,352.00		1,620.00	
Student Welfare Fund	18,826.00		17,195.00	

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SCST Scholarship	82,543.00			
Sponsored Scholarships & Awards	5,098.00			
TEQIP - II	130.00		235.00	
Text Book Lending Bank	18,253.00		18,656.00	
<b>On loan to Employees:</b>				
Interest From Rites	15,75,865.00		2,16,14,734.00	
Interest on Other Advance	-	5,58,37,123.00	1,099.00	15,44,82,953.28
<b>VIII. Investment Encashed</b>				
<b>IX. Other Income (Including Prior Period Income)</b>				
<b>1. Hostel Room Rent</b>				
Hostel Fan Charges	300.00		300.00	
Hostel Fees	2,55,29,436.00		12,000.00	
Hostel Room Rent	750.00		98,575.00	
Hostel Utensils	200.00		200.00	
Hostel & Colony (User Charges)	-		-	
Shop/Canteen Rent & Electric Charges	2,10,668.39		2,13,775.25	
Rent from Staff Quarter	77,41,645.30		30,16,890.00	
Building Rent	8,78,946.29		1,88,114.36	
Income from Guest House	9,84,517.00		9,10,697.00	
<b>2. Electricity &amp; water charges</b>				
Hostel Electricity Charges	5,29,178.56		2,90,276.64	
Water/Electricity Charges from Contractor & Staff	82,72,616.70		21,36,381.00	
<b>3. Others</b>				
GI for Student (Fees)	4,79,737.00			
Refund of Excess Fees	3,22,550.00		1,39,03,227.40	
Computer Stationery Charges	7,00,500.00		11,76,500.00	
E-Mail Charges	10,05,000.00		17,50,450.00	
Medical Contribution	10,44,900.00		14,56,175.00	
Recreation Fees	22,71,000.00		40,10,000.00	
Verification of Degree/Migration/Mark sheet	6,02,097.59		38,62,177.74	

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CMDR	23,714.00		3,000.00	
Ph.D. Application	12,78,000.00		-	
Miscellaneous Receipts Institute	11,19,530.77		9,34,833.20	
Sale of Tender Form	1,54,223.00		34,100.00	
Vehicle Charges	33,923.00		52,147.00	
Library Misc Receipt	1,321.00		-	
Retention of Service Charges	86,995.00		1,68,072.00	
Leave Salary	72,225.00		4,92,654.00	
Pension Contribution	5,50,896.00		6,18,947.00	
RTI Fees	1,350.00		2,260.00	
		5,38,96,220.60		3,53,31,752.59
Advance & Imprest Adjustment		6,642.00		
<b>X. Deposits and Advances</b>				
Advance adjustment to Staff	17,91,644.00		91,14,077.00	
Advance adjustment to Imprest	10,09,675.00		7,56,087.00	
Advance adjustment to Parties	1,26,47,58,834.35		29,96,14,570.30	
TEQUIP III	-		3,85,039.00	
<b>Subsidiary-</b>				
Subsidiary-Project Account - Advance & Imprest	-		14,23,734.00	
R&C Cell - Advances & Imprest	-		9,22,875.00	
R&C Cell - Receivable from Project Account	-		72,343.00	
Project Account - Advance for Plant and Machinery	-		-	
SNFCE - Advances & Imprest	5,000.00			
Industrial Estate - Service Tax Receivable from Shed Owners	3,91,642.00		2,55,236.00	
Recoverable Deposit- Institute- G.I. for Students	16,40,256.00		17,19,912.00	
Recoverable Deposit- Institute-Group Insurance Scheme	5,54,304.00	1,27,01,51,355.35	9,73,789.00	31,52,37,662.30
<b>XI. Miscellaneous Receipts Including Statutory Receipts</b>				
Income Tax	10,97,12,024.00		10,32,19,083.00	
Sales Tax	-		46,488.00	
GST Payable	-		10,383.26	

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GST ITC	46,94,177.19		43,59,206.00	
GST RCM	-		11,40,890.00	
Employees contribution to C.P.F	4,58,280.00		4,45,000.00	
Employees contribution to N.P.S	7,09,49,443.00		6,29,20,523.00	
GPF- contribution to employees	3,93,57,645.00		3,90,11,489.00	
<b>Subsidiaries</b>				
Project Account - Income Tax	-		95,332.00	
Project Account - GST	-		5,26,162.00	
R&C Cell - Income Tax	-		79,77,385.00	
R&C Cell - GST	-		1,20,68,464.00	
Industrial Estate- GST	6,41,765.00		1,01,819.00	
SNFCE - GST	15,802.00			
SNFCE - Income Tax	41,992.00	22,58,71,128.19	82,801.00	23,20,05,025.26
<b>XII. Any Other Receipts</b>				
Loan Account of PDTC & Industrial Estate	-		-	
HEFA Loan	11,12,73,020.00		11,80,00,000.00	
HEFA Loan-II Multi Stories Faculty Quarters	10,00,00,000.00		11,89,92,720.00	
HEFA Loan Interest	3,64,48,562.00		2,53,83,091.00	
NIMCET	1,12,000.00		-	
PM Relief Fund	-		16,41,860.00	
Cancelled Cheques	1,53,36,427.00		4,01,86,240.00	
Examination Fees	1,57,28,999.66		1,32,20,809.46	
L.I.C.	2,32,382.00		2,87,417.00	
Other Liabilities (Misc. Receipt Transfer)	18,99,257.05		92,74,118.00	
Caution Money	1,49,30,500.00		1,03,31,000.00	
Earnest Money/ Security Money	15,50,462.00		21,74,645.00	
Project Account Dean R & C	-		-	
Gain Project	17,04,000.00		-	
Stipend TEQUIP II (R&C)	-		-	
SBI Loan Recovery	96,000.00		96,000.00	

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Alumni Fees Liability	35,12,000.00		32,05,500.00	
Atal Programme	5,45,540.00		10,23,000.00	
Claims Receivable TDS	1,18,23,420.00		2,05,54,510.00	
Prior Period - Interest on LTC	-		1,524.00	
Prior Period - Interest from Rites Ltd	47,58,031.30			
Prior Period- Other Income	2,40,803.00		42,158.00	
<b>Subsidiaries</b>				
Industrial Estate - Expenses Payable	15,000.00		12,980.00	
Project Account - Accounting Charges Payable	-		20,000.00	
R&C Cell - Expenses Payable	-		20,000.00	
R&C Cell - Excess Testing Received	-		22,535.00	
Student Welfare Fund - Expense Payable	15,000.00		-	
Industrial Estate - Addition in Capital	-		1,10,600.00	
Project Account - MNNIT	-		-	
Project Account - Transfer to R&C Cell	-		-	
SNFCE- Cancelled Cheque	1,653.00		-	
R&C Cell - Testing & Consultancy (Pending)	-	32,02,23,057.01	6,38,94,372.00	42,84,95,079.46
<b>Total</b>		<b>7,84,06,86,554.88</b>		<b>6,44,00,42,036.17</b>

Payments	Current Year		Previous Year	
<b>I. Expenses</b>				
<b>a) Establishment Expenses</b>				
a) Salaries and Wages (Refer Annexure H (1))	58,74,21,889.82		55,91,82,435.00	
b) Allowances and Bonus (Refer Annexure H (2))	16,62,90,691.00		14,57,71,476.00	
c) Contribution to Provident Fund	2,29,140.00		2,22,500.00	
d) Contribution to Other Fund (specify)				
New Pension Scheme	4,13,26,510.00		3,66,94,081.00	
e) Retirement and Terminal Benefits (Refer Annexure H (3))	19,34,64,782.11		19,46,39,589.00	
Retirement Leave Encashment Payable				
f) LTC facility	8,50,102.00		1,51,48,296.00	

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g) Children Education Allowance	49,80,331.00		22,88,316.00	
h) Telephone Expense	16,49,631.00	99,62,13,076.93	21,66,161.00	95,61,12,854.00
<b>b) Academic Expenses</b>				
Admission expenses				
MBA Admission	2,95,000.00		4,10,465.00	
Convocation expenses				
Convocation expenses	3,89,650.00		12,87,634.00	
Stipend/means-cum-merit scholarship				
Stipend M Tech	13,96,53,361.00		9,15,33,015.00	
Stipend Ph.D.	14,34,46,204.00		12,81,27,850.00	
Scholarship	31,20,000.00		30,60,000.00	
Student Welfare expenses	3,97,762.00		4,11,123.00	
Others (specify)				
User Charges (Expenses)	-		1,96,717.00	
Refund of Excess Fees	1,09,82,214.00		79,13,819.00	
Student Club/Student Activity Centre	26,93,861.00	30,09,78,052.00	33,30,657.50	23,62,71,280.50
<b>c) Administrative Expenses</b>				
<b>Infrastructure</b>				
Electricity and power				
Colony	62,26,500.00		17,91,000.00	
Hostel	3,46,768.00		(13,69,813.00)	
Institute	4,28,29,284.00		5,07,67,413.00	
Rent, Rates and Taxes (including property tax)				
Rent & Taxes - Hostel and Colony	33,61,932.00		33,61,932.00	
Water Tax	50,42,934.00		50,42,934.00	
<b>Communication</b>				
Postage & telegram	34,999.00		47,698.00	
Telephone and Internet Charges	4,68,884.00		3,46,375.00	
Rental Charges of Internet Bandwidth (Internet Charges)	33,90,352.00		33,90,857.00	
<b>Others</b>				

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Printing and Stationary	4,91,493.00		5,18,392.00	
Travelling and Conveyance Expenses	5,26,541.00		5,28,113.00	
Auditors Remuneration				
Audit Fees AGUP	2,24,900.00		7,37,500.00	
Chartered Accountant Fees	2,77,300.00		2,77,300.00	
Advertisement and Publicity				
Advertisement UG	7,58,843.00		26,534.00	
Magazines & Journals				
Library & E-Journals	29,271.00		1,02,810.00	
Others (specify)				
Legal Expenses	1,52,400.00		31,400.00	
Library Operating Cost	6,48,263.00		3,27,287.00	
Liveries to Staff	1,70,000.00		1,90,000.00	
Utensil Charges - Revenue	-		1,988.00	
Miscellaneous Contingencies	26,59,666.00		22,94,493.00	
Misc. Expenses	3,31,382.00		15,07,413.00	
Security Charges	6,43,92,036.00		6,20,14,495.00	
Recreation Club Teaching & Non Teaching	-		75,000.00	
Retention of Security Charges	86,995.00		1,68,072.00	
Executive Development Centre	4,52,443.00		67,793.00	
Medical Reimbursement	67,54,429.00		61,72,820.00	
Medicine including Doctors visit Fees	45,76,341.00		53,84,286.00	
NIT Transit House Contribution	-		3,50,000.00	
B.O.G & Meetings	7,87,726.00		10,88,250.00	
Seminar & Conference	2,57,200.00		17,000.00	
Application fees for appointment	1,52,871.00		1,64,488.66	
Hostel & Colony (User Charges)	1,40,000.00		87,701.00	
NCC/NSS	20,485.00		2,30,951.00	
Campus Interview and Placement	-		29,672.00	
Purchase/Consumables (As per Annexure I)	1,19,86,111.00	15,75,78,349.00	94,60,269.00	15,52,32,423.66



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<b>d) Transportation Expenses</b>				
Vehicles (owned by educational institution)	-		-	
Repairs & maintenance		5,98,924.00		7,74,339.00
<b>e) Repairs &amp; Maintenance</b>				
<b>Building</b>				
Renovation of Building Structure	87,25,106.00		1,51,01,515.00	
<b>Office Equipments</b>				
Maintenance of Computer & Equipment	36,91,542.00		49,80,088.00	
General Utility Equipment	24,40,679.00		32,03,965.00	
Maintenance Lawns & Gardens	89,549.00		1,71,133.00	
<b>Others (specify)</b>				
Renovation of Electric System & Facilities	52,68,259.00	2,02,15,135.00	76,51,097.00	3,11,07,798.00
<b>f) Other Expenses</b>				
Balances Written off				
GST Expense	90,954.00			
DASA Payment	18,26,805.00			
Start-up (Govt Policies)	1,66,944.00	20,84,703.00	10,45,794.00	10,45,794.00
<b>g) Prior Period Expenses</b>				
Advance & Imprest Adjustment	25,888.00		38,848.00	
Other Expense	-	25,888.00	-	38,848.00
<b>II. Payments Against Earmarked/Endowment Funds</b>				
<b>General Provident Fund:</b>				
Payment to Subscribers and Bank Charges	2,58,15,326.00		4,22,97,671.00	
<b>New Pension Scheme:</b>				
Payment to NSDL and Bank Charges	7,08,78,629.10		6,56,76,751.10	
<b>Donation Fund:</b>				
Expenditure	27,33,719.50			
<b>Contributory Provident Fund</b>				
Payment to NSDL and Bank Charges	-		-	
<b>Subsidiary Funds-Expenditure</b>				

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Dean Academic Affairs	82,45,035.00		80,34,346.00	
G. K. Agrawal Trust	1,04,166.00		5,89,607.97	
Industrial Estate	9,39,104.00		10,02,419.00	
Project Account	-		13,93,751.40	
Research & Consultancy Cell	-		26,10,861.16	
Research & Consultancy Cell- Prior Period	-		-	
School of Non Formal Continuing Education	10,75,473.00		11,28,628.00	
Sponsor Gold Medal	46,251.00		97,679.40	
Sponsor Gold Medal- Prior Period Exp	-		8,01,637.00	
Student Welfare Fund	15,82,746.90		5,70,285.40	
Student Welfare Fund- Prior Period Exp	-		1,38,70,267.89	
SCST Scholarship	22,21,402.00			
Sponsored Scholarships & Awards	50,000.00			
TEQIP - II	1,17,583.00		69,36,596.00	
Text Book Lending Bank	-	11,38,09,435.50	-	14,50,10,501.32
<b>III. Payments Against Sponsored Projects/Schemes</b>				
<b>IV. Payments Against Sponsored Fellowships/ Scholarships</b>				
<b>Institute</b>				
QIP Stipend & Contingency	-			
Outside Scholarship	91,36,638.00		1,43,56,394.40	
CSIR Delhi	45,000.00		3,61,229.00	
<b>Subsidiaries</b>				
<b>Project Account :</b>				
Project (Running)	-		6,05,62,913.00	
R&C Cell (Deferred Grant)	-	91,81,638.00	4,72,854.00	7,57,53,390.40
<b>V. Investments and Deposits Made</b>				
<b>VI. Term Deposits with Scheduled Banks</b>				
<b>VII. Expenditure of Fixed Assets &amp; Capital Work In Progress</b>				
a) Fixed Assets				
1. Land	-		-	

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2. Buildings	7,54,07,788.00		7,85,10,708.00	
3.Plant, machinery and equipment	57,67,071.00		3,49,55,828.00	
4. Vehicles	(23,051.00)		-	
5. Furniture and fixtures	13,17,779.00		74,98,910.00	
6. Office equipment	12,85,442.00		1,54,52,538.00	
7. Computer peripherals	31,92,017.00		84,54,946.00	
8. Electric installations	1,01,40,907.00		53,29,658.00	
9. Library books	-		2,25,144.00	
10. Tube wells and water supply	-		61,05,956.00	
11. Other fixed assets	2,27,974.00		3,83,257.00	
12. Road	18,64,93,664.00		9,08,00,106.00	
b) Intangible Asset				
12. Computer Software	25,08,761.00		2,62,500.00	
13. E-Journals	5,88,13,479.46		7,37,19,148.00	
c) Capital Work in Progress	69,05,41,034.35	1,03,56,72,865.81	11,30,93,039.30	43,47,91,738.30
<b>VIII. Other Payments Including Statutory Payments</b>				
Income Tax	10,96,74,344.00		11,17,46,422.00	
Sales Tax	-		1,34,895.00	
GST Payable	10,383.26		-	
GST ITC	42,94,026.00		43,51,391.00	
GST RCM	5,05,304.00		6,35,586.00	
Employees contribution to C.P.F	4,58,280.00		4,45,000.00	
Employees contribution to N.P.S	7,71,06,205.00		6,29,04,175.00	
GPF- contribution to employees	3,93,42,370.00		3,90,11,489.00	
<b>Subsidiaries</b>				
Project Account - Income Tax	-		95,332.00	
Project Account - GST	-		5,26,162.00	
R&C Cell - Income Tax	-		79,77,385.00	
R&C Cell - Service Tax	-		-	
R&C Cell - GST	-		1,08,26,322.00	

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Industrial Estate - GST	6,43,361.00		1,04,539.00	
SNFCE - GST	15,802.00			
SNFCE - Income Tax	41,992.00		82,801.00	
Dean Academic Affairs - Income Tax		23,20,92,067.26		23,88,41,499.00
<b>IX. Refund of Grant</b>				
<b>X. Deposits and Advances</b>				
Advance given to Staff	18,56,434.00		73,96,816.00	
Imprest given to Staff	9,06,105.00		1,42,936.00	
Advance given to Parties	63,00,70,586.30		42,61,90,912.00	
Project Account - Advance for Plant and Machinery	-		-	
Recovery against Debts Outstanding of Industrial Estate	(16,51,769.00)		(21,58,202.00)	
Tax Deducted at Source	20,09,917.00		89,57,606.00	
GST TDS- R&C Cell	-		36,218.00	
<b>Subsidiary</b>				
Subsidiary-Dean Academics - Advances	-		-	
Subsidiary-Project Account - Advance & Imprest	-		90,000.00	
R&C Cell - Advances & Imprest	-		1,67,000.00	
R&C Cell - Receivable from Project Account	-		70,343.00	
R&C Cell - Main Office Account	-		39,153.00	
SNFCE Advance & Imprest	5,000.00		-	
Recoverable Deposit- Institute- G.I. for Students	16,40,256.00		9,43,224.00	
Recoverable Deposit- Institute-Group Insurance Scheme	8,05,304.00		8,41,477.00	
Recoverable Deposit- Institute-Security & Earnest Money		63,56,41,833.30		44,27,17,483.00
<b>XI. Other Payments</b>				
Bank Charges	2,13,074.71		1,84,723.86	
NIMCET	1,12,000.00			
PM Relief Fund	-		16,41,860.00	
Cancelled Cheques	1,51,55,955.00		4,30,18,763.00	
DST New Delhi	-		1,40,000.00	
Examination Fees	1,32,18,109.00		2,700.00	

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Project Account	-		-	
GIAN Project	5,21,050.00		6,12,151.50	
L.I.C.	2,32,382.00		2,87,417.00	
Other Liabilities (Misc. Receipt Transfer)	23,81,645.00		1,15,82,788.00	
Caution Money	44,44,000.00		25,75,133.00	
Earnest Money/ Security Money	75,14,107.00		50,47,499.00	
SBI Loan Recovery	80,000.00		96,000.00	
Alumni Fees Liability	35,12,000.00		31,66,000.00	
Atal Programme	5,44,860.00		10,18,280.00	
HEFA Loan	8,50,00,000.00		8,50,00,000.00	
HEFA Loan-II Multi Stories Faculty Quarters	1,98,32,120.00		3,96,64,264.00	
HEFA Loan Interest Repayment	3,64,48,562.00		2,53,83,091.00	
Interest on Unutilised Grant	47,29,843.00			
Refund of Grant	9,10,63,532.00			
<b>Subsidiaries</b>				
Industrial Estate- Expenses Payable	12,980.00		11,210.00	
Industrial Estate - Executive Engineer CPWD (Road and Drainage)	38,522.00		-	
Project Account - Accounting Charges Payable	-		20,000.00	
R&C Cell - Expenses Payable	-		70,122.00	
R&C Cell - Excess Amount of Testing	-		12,935.00	
R&C Cell - Transfer to Corpus Fund	-		89,28,914.00	
Project Account - Transfer to Corpus Fund	-		10,19,914.00	
Project Account - MNNIT	-		45,487.00	
Project Account - Transfer to R&C Cell	-		2,000.00	
Sponsor Gold Medal- Adjustment	-		1,00,000.00	
TEQIP III - Loan from Institute	-		1,53,405.00	
R&C Cell - Testing & Consultancy	-	28,50,54,741.71	5,11,23,661.00	28,09,08,318.36
<b>XII. Closing Balance:</b>				
<b>Cash in Hand</b>		3,045.00		6,892.00
<b>Bank Account:</b>				

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State Bank of India - Power Jyoti	0.18		0.06	
State Bank of India - New Fees Account (with Autosweep)	53,40,38,546.45	53,40,38,546.63	21,79,67,310.55	21,79,67,310.61
<b>Savings Account &amp; Autosweep:</b>				
BOB-66	13,16,35,345.99		35,60,31,356.62	
BOB-48	16,27,27,972.31	29,43,63,318.30	2,52,83,654.77	38,13,15,011.39
<b>In Fixed Deposits with Banks:</b>				
<b>Institute</b>				
State Bank of India	40,90,14,744.00		53,43,21,521.00	
<b>Caution Money</b>				
State Bank of India	17,27,804.00		17,27,804.00	
Vijaya Bank	85,00,000.00	41,92,42,548.00	85,00,000.00	54,45,49,325.00
<b>Earmarked and Endowment Fund:</b>				
<b>Contributory Provident Fund:</b>				
Contributory Provident Fund (SB)	5,33,696.12		67,148.12	
Contributory Provident Fund FDR	98,20,360.00		92,58,570.00	
<b>General Provident Fund:</b>				
General Provident Fund - with Treasury	10,07,349.00		10,07,349.00	
General Provident Fund - with Vijaya Bank (FDR)	31,69,04,377.00		29,80,48,174.00	
General Provident Fund - with Vijaya Bank (SB)	83,89,656.00		14,71,533.00	
<b>Corpus Fund</b>				
Corpus Fund-with (SBI-SB)	90,47,725.87		77,17,62,662.00	
Corpus Fund-with (SBI-FDR)	1,94,67,90,123.00		72,50,44,485.00	
<b>Development/Renewal Fund</b>				
Development/Renewal Fund (SBI-SB)	4,64,302.00		4,44,264.00	
Development/Renewal Fund (SBI-FDR)	7,95,209.00		7,06,706.00	
<b>Maintenance Fund</b>				
Maintenance Fund (SBI-SB)	4,63,646.00		4,43,639.00	
Maintenance Fund (SBI-TDR)	7,95,209.00		7,06,706.00	
<b>Staff Development Fund</b>				
Staff Development Fund (SBI-SB)	4,83,802.00		4,62,862.00	

Motilal Nehru National Institute of Technology Allahabad [MNNIT Allahabad]

Staff Development Fund (SBI-TDR)	17,35,008.00		15,41,909.00	
<b>New Pension Scheme:</b>				
Vijaya Bank Saving Account	49,91,871.10		45,77,624.20	
<b>Donation Fund Account</b>				
Donation Fund Account (SBI-SB)	25,34,637.44	2,30,47,56,971.53	51,70,596.94	1,82,07,14,228.26
<b>In Subsidiary Funds:</b>				
<b>Admission Committee</b>	7,04,312.00		7,04,312.00	
<b>Dean Academic Affairs</b>	9,14,51,869.58		8,42,40,586.58	
<b>G. K. Agarwal Trust :</b>				
Savings Account:	41,56,629.23		40,77,653.23	
Fixed Deposits	3,00,000.00		3,00,000.00	
<b>Industrial Estate</b>				
Current Account	1,34,62,650.01		73,61,393.29	
Fixed Deposits	3,11,21,698.00		3,04,50,079.00	
<b>Kitchen Project</b>	6,272.00		6,272.00	
<b>Nodal Centre</b>	82,770.00		82,770.00	
<b>P.D.T.C.</b>	2,24,309.00		2,24,309.00	
<b>Project Account</b>				
Savings & AutoSweep Account	7,57,26,399.33		7,57,26,399.33	
Fixed Deposits	3,72,69,237.00		3,72,69,237.00	
<b>Research &amp; Consultancy Cell :</b>				
Savings & Auto Sweep Account	8,12,02,401.42		8,12,02,401.42	
Fixed Deposits	9,43,89,889.00		9,43,89,889.00	
<b>School of Non Formal Continuing Education :</b>				
Current Account	37,93,246.00		17,49,866.00	
Fixed Deposits	2,38,02,189.00		2,38,02,189.00	
<b>Sponsored Gold Medal</b>				
Savings Account	8,38,650.80		5,36,521.80	
Fixed Deposits	3,55,930.00		3,88,488.00	
<b>Student Welfare Fund :</b>				



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Savings Account	1,27,71,947.32		1,07,67,634.22	
Fixed Deposits	2,33,40,429.00		2,26,75,283.00	
<b>SCST Scholarship :</b>				
Savings Account	27,23,221.72		-	
<b>Sponsored Scholarships &amp; Awards</b>				
Savings Account	4,65,265.00		-	
<b>TEQIP - II</b>				
Savings Account	1,54,897.50		1,54,767.50	
Fixed Deposits	1,14,000.00		1,14,000.00	
<b>Text Book Lending Bank</b>	6,77,203.00	49,91,35,415.91	6,58,950.00	47,68,83,001.37
<b>Total</b>		<b>7,84,06,86,554.88</b>		<b>6,44,00,42,036.17</b>

ASSISTANT REGISTRAR (A/CS)

REGISTRAR

DIRECTOR



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**ANNEXURES**

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<b>Annexure-1</b>	<b>NIT Council</b>
<b>Annexure-2</b>	<b>Board of Governors</b>
<b>Annexure-3</b>	<b>Finance Committee</b>
<b>Annexure-4</b>	<b>Building and Works Committee</b>
<b>Annexure-5</b>	<b>Senate</b>
<b>Annexure-6</b>	<b>Details of Ongoing Externally Funded Research Project (upto 31.03.2022) Details of New Sanctioned Research Project During The Financial Year 2021-22 Sponsored Research Projects Completed During The Financial Year 2021-22</b>
<b>Annexure-7</b>	<b>Testing and Consultancy</b>

**COUNCIL OF NATIONAL INSTITUTE OF TECHNOLOGY (NIT COUNCIL)**

The Council shall consist of the following members, namely:-

- (i) the Minister in charge of the Ministry or Department of the Central Government having administrative control of the technical education, *ex officio*, as Chairman;
- (ii) 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;
- (iii) the Chairperson of every Board, *ex officio*;
- (iv) the Director of every Institute, *ex officio*;
- (v) the Chairman, University Grants Commission, *ex officio*;
- (vi) the Director General, Council of Scientific and Industrial Research, *ex officio*;
- (vii) 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*;
- (viii) the Chairman, All India Council for Technical Education, *ex officio*;
- (ix) 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;
- (x) 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;
- (xi) 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*;
- (xii) Financial Advisor, dealing with the Human Resource Development Ministry or Department of the Central Government, *ex officio*;
- (xiii) 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.

**ANNEXURE-2**

**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   |

**ANNEXURE-3**

**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<br>(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)

**ANNEXURE-4**

**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<br>(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                           |

**ANNEXURE-5**

**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 employee 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             |

## ANNEXURE-6

## 1) Details of Ongoing Externally Funded Research Project (UPTO 31.03.2022)

Sl. No	Principal Investigator/ Co-investigator	Project Title	Funding Agency	Sanctioned Amount (Rs.)
1.	Prof. R. C. Vaishya CED	Air Quality Monitoring Project	UPPCB, Lucknow	7,40,400 Per Year
2.	Prof. R. P. Singh CED	Ambient Air Quality Monitoring and Noise Monitoring at three locations in Allahabad City	UPPCB, Lucknow	10,56,000 Per Year
3.	Prof. D. K. Yadav CSED	Visvesvaraya PhD Scheme for Electronics & IT	DeitY, New Delhi	8,44,83,600
4.	Prof. Shivesh Sharma BTD	Design and Innovation Centre	MHRD, New Delhi	1,00,00,000
5.	Dr. J. C. Mohanta MED	Quad-captor application for live-inspection of power transmission lines	DST, New Delhi	24,12,300
6.	Dr. Shashank Srivastava, CSED	Intelligent detection and mitigation of DDoS Attack in SDN	DST, New Delhi	24,64,880
7.	Dr. Ruchi Chawla Chemistry	Visible-light mediated synthetically important radical reactions of vinyl epoxides	DST, New Delhi	26,34,000
8.	Dr. Ashutosh Mani BTD	Screening and identification of natural inhibitors for $\beta$ -Secretase-1 as potential therapeutics against Alzheimer's disease	SERB, New Delhi	45,17,480
9.	Prof. Asheesh Kumar Singh, EED	E-Mobility: An Electricity Grid Perspective	MHRD, New Delhi	63,38,355
10.	Dr. Vishnu Agarwal BTD	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
11.	Prof. Shivesh Sharma BTD	GIS-based Mapping of Microbial Diversity across the Ganges for Ecosystem Services	Ministry of Jal Shakti, New Delhi	57,75,000
12.	Dr. Arti Chouhan Chemistry	Syntheses, characterisations and Applications of Luminescent metal organic Frameworks	DST, New Delhi	27,95,000
13.	Prof. Richa Negi EED	Indo-Norway Joint Project entitled: Integrated Renewable Resources and Storage: Operation and management [IReSOpm]	DST, New Delhi	46,52,760
14.	Ms. Smita Kumari BTD	Role of poly aromatic hydrocarbon (PAH) in exonal switch of cd5 gene of human T cells	DST, New Delhi	22,86,368
15.	Head, Mathematics	DST-FIST (Fund for Improvement in S&T Infrastructure.	DST, New Delhi	45,00,000
16.	Head Biotechnology	FIST Program DST	DST, New Delhi	83,00,000
17.	Dr. Suantak Kamsonlian CHED	Development of a Novel Electrochemical membrane bioreactor (EMBR) for the treatment of low strength municipal wastewater and Generation of sustainable	SERB, New Delhi	39,30,195



18.	Ms. Priya Rai BTD	bioelectricity simultaneously Augmentation of fermentative biohydrogen production by using nanoparticles and immobilization techniques for mitigating biowastes	DST, New Delhi	28,89,400
19.	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 /DST, New Delhi	14,99,040
20.	Prof. Nand Kishor EED	Study on Cyber-physical Approach for Electric Power Grid	SERB, New Delhi	54,29,263
21.	Dr. Ram Ji Dwivedi GIS Cell	Conducting two 5 days each training Course on InSAR: Theory, Processing and Application and Geospatial Technologies for Disaster Management	DST, New Delhi	10,00,000
22.	Dr. Anand Sharma ECED	Design and Development of Printed/Dielectric Resonator Antennas for 5G Communication System	SERB, New Delhi	25,60,520
23.	Dr. Abhishek Kundu AMD	Effect of boundary layer growth on blast wave mitigation studies inside the shock tube	SERB, New Delhi	28,17,430
24.	Dr. Saumendra Sarangi EED	Development of Novel Protection Schemes for Hybrid Microgrid	SERB, New Delhi	27,48,650
25.	Dr. Basant Kumar ECED	AN IoT enabled portable device for OND/ ONSD based automated detection of Intracranial Pressure (ICP) through ocular USG Imaging	DST, New Delhi	24,73,540
26.	Prof. Mukul Shukla, MED	Point-of-Care AI Technology based X-ray imaging device for automated early diagnosis of viral respiratory diseases	DST, New Delhi	51,59,918
27.	Dr. Anand Sharma, ECED	Design and Development of Dielectric Resonator Antenna for Smart City Applications	UPCST	7,28,000
28.	Prof. Nand Kishor EED/ Dr. Manohar Yadav, GIS Cell	Sustainable Energy System for Achieving Novel Carbon Neutral Energy Communities (Sustenance)	DST, New Delhi	64,35,220
29.	Dr. V. Murari AMD	The effect of axial tension and temperature on stress distribution in SiC fibers at different stage of pyrolysis process	DRDO, New Delhi	6,29,625
30.	Dr. Manisha Sachan BTD	Generation of comprehensive methylome towards developing a qPCR based epigenetic biomarker panel for early detection of buccogingival and tongue carcinoma	ICMR, New Delhi	16,80,466
31.	Dr. Pranab Kumar Kundu, MED	DHR-GIA Proposal: USHA: Urine Sense towards Health Analysis of kidney	ICMR, New Delhi	7,05,400
32.	Dr. Dushyant Kumar Singh, CSED	Development of an Integrated intelligent surveillance system for suspicious behavior analysis	SERB, New Delhi	25,56,400
33.	Dr. Nand Kumar Singh BTD	Phenotypic Characterization and gene mapping of novel early rice flowering mutants	SERB, New Delhi	30,36,264

34.	Dr. Deepak Kumar EED	during the floral transition and seed formation Design of two-dimensional digital filters using finite-frequency reduced-order modeling	SERB, New Delhi	6,60,000
35.	Dr. Rupika Sinha BTD	Development of a co-culture strategy for enhanced production of streptomycin using a hollow fiber membrane bioreactor	SERB, New Delhi	30,93,608
36.	Dr. Ambak Kumar Rai BTD, Dr. Sameer Srivastava BTD	Understanding the human endogenous retrovirus-mediated regulation of CD5 isoform expression and its functional characterization	SERB, New Delhi	50,98,324
37.	Dr. Shweta Tripathi ECED	Development of Non-Invasive Saliva based Glucometer for Diabetes Management	SERB, New Delhi	23,48,764
38.	Dr. Seema Nara BTD	Engineering adhesive CeO <sub>2</sub> -Pd nanozyme as effective antibiotics towards bacteria killing	SERB, New Delhi	44,22,240
39.	Dr. Suman M. EED	Development of Unintentional Islanding Protection Scheme with Low Voltage & Frequency Ride Through Capability	SERB, New Delhi	33,23,144
40.	Dr. Shivesh Sharma BTD	Mentoring and Monitoring of Government School of Uttar Pradesh under Rastriya Aaviskar Abhiyan	Basic Education Dept Govt UP	11,25,000
<b>Total</b>				<b>21,16,73,114</b>

## 2) Details of New Sanctioned Research Project During The Financial Year 2021-22

Sl. No.	Principal Investigator /Co-investigator	Project Title	Funding Agency	Sanctioned Amount (Rs.)	Duration Month & Years
1.	Prof. Nand Kishor EED, Dr. Manohar Yadav GIS Cell	Sustainable Energy System for Achieving Novel Carbon Neutral Energy Communities (Sustenance)	DST, New Delhi	64,35,220	4 Years & 6 Months
2.	Dr. Manisha Sachan BTD	Generation of comprehensive methylome towards developing a qPCR based epigenetic biomarker panel for early detection of buccogingival and tongue carcinoma	ICMR, New Delhi	16,80,466	3 Years
3.	Dr. Pranab Kumar Kundu, MED	DHR-GIA Proposal: Usha: Urine Sense towards Health Analysis of kidney	ICMR, New Delhi	7,05,400	2 Years
4.	Dr. Dushyant Kumar Singh, CSED	Development of an Integrated intelligent surveillance system for suspicious behavior analysis	SERB, New Delhi	25,56,400	3 Years
5.	Dr. Nand Kumar Singh, BTD	Phenotypic Characterization and gene mapping of novel early rice flowering mutants during the floral transition and seed formation	SERB, New Delhi	30,36,264	3 Years
6.	Dr. Deepak Kumar EED	Design of two-dimensional digital filters using finite-frequency reduced-order modeling	SERB, New Delhi	6,60,000	3 Years
7.	Dr. Rupika Sinha BTD	Development of a co-culture strategy for enhanced production of streptomycin using a hollow fiber membrane bioreactor	SERB, New Delhi	30,93,608	2 Years
8.	Dr. Ambak Kumar Rai BTD Dr. Sameer Srivastava BTD	Understanding the human endogenous retrovirus-mediated regulation of CD5 isoform expression and its functional characterization	SERB, New Delhi	41,63,324	3 Years
9.	Dr. Shweta Tripathi ECED	Development of Non-Invasive Saliva based Glucometer for Diabetes Management	SERB, New Delhi	23,48,764	3 Year
10.	Dr. Seema Nara BTD	Engineering adhesive CeO <sub>2</sub> -Pd nanozyme as effective antibiotics towards bacteria killing	SERB, New Delhi	44,22,240	3 Years
11.	Dr. V. Murari AMD	The effect of axial tension and temperature on stress distribution in SiC fibers at different stage of pyrolysis process	DRDO, New Delhi	6,29,625	1 Year
12.	Dr. Suman M EED	Development of Unintentional Islanding Protection Scheme with Low Voltage & Frequency Ride Through Capability	SERB, New Delhi	33,23,144	3 Years
13.	Dr. Shivesh Sharma BTD	Mentoring and Monitoring of Government School of Uttar Pradesh under Rastriya Aaviskar Abhiyan	Basic Education Dept. Govt. UP	11,25,000	1 Year

**Total****3,41,79,455****3) SPONSORED RESEARCH PROJECTS COMPLETED DURING THE FINANCIAL YEAR 2021-22**

Sl. No.	Principal Investigator/ Co-ordinator	Title of Project	Sponsoring Agency	Date of Sanction / Duration
1.	Prof. R. S. Yadav CSED	Information Security Education & Awareness (ISEA) Project - Phase - II	DeitY, New Delhi	09.09.2015 6 Years 3 Month (after extension)
2.	Prof. Vijaya Bhaduaria, ECED	Special Manpower Development Programme - Clip to System Design (S M D P -C2SD)	MCIT/Deity, New Delhi	15.12.2014 7 Years approx
3.	Dr. Manisha Sachan DBT	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	31.03.2017 4 Years (after extension)
4.	Dr. B. Vasu Mathematics	Mathematical Simulations of Nanoparticles as Drug Carrier on Blood Flow through a Stenotic Artery	SERB, New Delhi	12.03.2018 3 Years & 6 months
5.	Prof. Ram Prakash Tiwari, CED	Dam Rehabilitation and Improvement Project of Central Water Commission (CWC)	Central Water Commission, New Delhi	29.09.2017 4 Years (after extension)
6.	Dr. Akshoy Ranjan Paul, AMD	Prototype Development of a Novel Dry Powder Inhaler (DPI) for Pulmonary Drug Delivery	CST, UP	07.02.2018 3 Years
7.	Prof. Shivesh Sharma, BTD	Studies on Nanoparticles (FeO <sub>2</sub> and CuO-NPS) Mediated Toxicity, Tolerance Mechanisms and Their Toxicity Management in Some Susceptible and Tolerant Rice ( <i>Oryza sativa</i> L.) Varieties	CSIR, New Delhi	04.04.2018 3 Years & 6 Month Approx (after extension)
8.	Dr. Radha Rani Mewaram, BTD	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	06.07.2018 3 Years
9.	Dr. Harinder Singh CHED	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)	17.12.2018 3 Years
10.	Prof. Nand Kishor EED	Indo-Finland joint call for Mobility of Researchers	DST, New Delhi	11.07.2019 1 Year
11.	Prof. Ganesh Sahu SMS	Developing a Model for Effective Adoption of Solar Energy System in Inida	ICSSR, New Delhi	24.09.2019 2 Years

## Testing and Consultancy

Sl. No.	Name of PI	Name of Funding Agency	Project Title	Amount (INR)
1.	Prof. R. P. Tiwari	M/s U.P. Project Corporation Ltd., UP Project Corporation Ltd, Left Bank Gomti barrage, Gomti Nagar, Lucknow, Uttar Pradesh-226001	Inspection	59,000
2.	Prof. R. P. Tiwari	M/s U.P. Project Corporation Ltd., Up Project Corporation LTD, Left Bank Gomti barrage, Gomti Nagar, Lucknow, Uttar Pradesh-226001	Inspection	29,500
3.	Dr. Kumar Venkatesh	M/s Project Manager Mittal Brothers Engineer's & Contractors Lucknow-226020	Testing	11,800
4.	Dr. Gautom Ghosh	M/s T.R.G. Industries P. Ltd. 127/W/580, Keshav Nagar, Keshav Nagar, Kanpur Nagar, Uttar Pradesh-208023	Testing	11,800
5.	Dr. Gautom Ghosh	M/s Nsdz Infra Zamin Nazeer, 0, WAJIDPUR Ahmadpur Asarauli, Sadar, Allahabad (U.P.)	Testing	27,730
6.	Dr. Varun Singh	Asstt. Divil Engineer N.C.R. Mirzapur	Testing	10,620
7.	Prof. R. P. Tiwari	Greenagers Enviro Solutions & Servoces, D-3/1, Vibhav Khand, Gomti Nagar, Lucknow, Uttar Pradesh-22601	Design & Counsultancy	23,600
8.	Prof. R. C. Vaishya	Er. M. K. Pal Executive Engineer Project Manager Construction & Design Services (E/M/Wing), U. P. Jal Nigam A-D-8, Ekanki Kunj Colony, Mayor Road, Rajapur, Prayagraj	Testing & Counsultancy	10,62,000
9.	Prof. R. C. Vaishya	Er. M. K. Pal Executive Engineer Project Manager Construction & Design Services (E/M/Wing), U. P. Jal Nigam A-D-8, Ekanki Kunj Colony, Mayor Road, Rajapur, Prayagraj	Design & Counsultancy	29,50,000
10.	Dr. Gautam Ghosh	Aditya Enterprises 0, Main Road Gorbi Bazar, Gorbi, Gorbi, Singrauli, Madhya Pradesh	Design Counsultancy	41,300
11.	Dr. Nekram Rawal	Mr. Ravi Ranjan Municipal Commissioner, Prayagraj	Testing cum Counsultancy	4,83,800
12.	Prof. R. C. Vaishya	Nextgen Infoworld Private Limited, K-79-A, Third Floor, Kalkaji, New Delhi, South Delhi, Delhi-110019	Testing	17,700
13.	Prof. R. C. Vaishya	M/s Orion Engineers Ravi Chauhan 58 A 2nd, Palika Bazar G. T. Road, Dharampura, Ghaziabad, Uttar Pradesh-201001	Design Counsultancy	70,800
14.	Prof. Rakesh Kumar	Project Manager Manufacturing Unit-13, Indira Nagar (Near Power House) Banda	Inspection	94,400
15.	Dr. P. R. Pal	Hindustan Associates Private Limited 19-A, Bhuvneshwar Nagar Colony, Orderly Bazar, Varanasi, Uttar Pradesh-221002	Testing	53,100
16.	Dr. P. R. Pal	M/s MD. Yakub Khan Thikedar Mohd Yaqoob Khan 1, bazar rustam khan, bhadohi, Sant Ravidas Nagar, Uttar Pradesh-221401	Testing	39,530
17.	Dr. P. R. Pal	M/s S .P. Singla Construction P Ltd., Bridge No 36, Murad Nagar, Ghaziabad, Ghaziabad,	Testing	44,840

18.	Dr. P. R. Pal	Uttar Pradesh-201206 Ferro Edifice Private Limited E-172 HIG, Radha Kunj, Brij Vihar, Ghaziabad, Uttar Pradesh-201010	Design Counsultancy	3,25,238
19.	Dr. P. R. Pal	M/s Kamal & Associates P. Ltd., 519, 5 <sup>th</sup> floor, K. M. Trade Tower, Sector-14, Ghaziabad, Uttar Pradesh-201010	Testing	56,640
20.	Dr. P. R. Pal	M/s Nandu Construction Santosh Kumar Ojha Soram, Meja Khas, Meja Road, Meja, Allahabad, Uttar Pradesh-212203	Testing	35,400
21.	Dr. P. R. Pal	M/s Raj Kumar Engineering 254, Ground Floor, Nh-80, Badpur, Patna, Bihar, 803301	Testing	1,12,100
22.	Dr. V. P. Singh	M/s Nandu Construction Santosh Kumar Ojha Soram, Meja Khas, Meja Road, Meja, Allahabad, Uttar Pradesh-212203	Design Counsultancy	41,300
23.	Prof. A. K. Sachan	M/s Uttar Pradesh Rajkiya Nirman Nigam Limited, Vishweshwaraiya Bhawan, UPRNML, Vibhuti khand Gomti Nagar, Lucknow, Uttar Pradesh-226010 (Jhansi Unit)	Design Counsultancy	18,000
24.	Prof. R. P. Tiwari	Irrigation Constructio Division Matatila Lalitpur	Inspection	9,44,000
25.	Dr. P. R. Pal	M/s Raj Kumar Engineering 254, Ground Floor, Nh-80, Badpur, Patna, Bihar-803301	Testing	1,20,360
26.	Dr. v. P. Singh	M/s Adani Infra India Limited 5th Floor, Plot No.Tc/G-2/2, Cyber Heights, Vibhuti Khand, Gomti Nagar, Lucknow, Uttar Pradesh-226010	Testing Cum Counsultancy	2,56,650
27.	Dr. V. P. Singh	अधिशसी अभीयंता राष्ट्रीय जल प्रबन्ध योजना शारदा नहर खण्ड, शाहजहांपुर, उत्तर प्रदेश	Design Counsultancy	5,90,000
28.	Dr. P. R. Pal	M/S Shyam Steel Industries Limited, 52, Navyug Market, Gaziabad, Uttar Pradesh	Testing	28,320
29.	Dr. P. R. Pal	National Fedn. of Fars. Procmt. Procsgg. & Retailing Coops of India Limited, C- 145 Sector A-5, Mahanagar Road No-2, Lucknow, Uttar Pradesh-226006	Testing	67,850
30.	Prof. A. K. Sachan	M/s Awasthi Tubewell Company Pankaj Kumar Awasthi 134, Kamla Nagar, Collector Ganj, Fatehpur, Uttar Pradesh-212601	Design Counsultancy	45,000
31.	Dr. Kumar Venkatesh	M/S Adani Infra India Limited 5th Floor, Plot No.Tc/G-2/2, Cyber Heights, Vibhuti Khand, Gomti Nagar, Lucknow, Uttar Pradesh-226010	Testing Cum Counsultancy	7,78,800
32.	Prof. R. C. Vaishya	M/s R. S. Constructions Chander Prakash Sharma I-635, Govindpuram, Ghaziabad, Uttar Pradesh-201001	Inspection	3,54,000
33.	Dr. Kumar Venkatesh	M/s R. S. Constructions Chander Prakash Sharma I-635, Govindpuram, Ghaziabad, Uttar Pradesh-201001	Testing	7,080
34.	Dr. Anupam Rawat	Mr. R. K. Mishra U. P. Power Transmission Corporation Limited, Office of the Chief Engineer (T-SE), 57-George Town, Allahabad	Design Counsultancy	70,800
35.	Dr. Anupam Rawat	M/S Shree Enterprises Pankaj Kumar Tiwari	Testing Cum	33,630



36.	Dr. Kumar Venkatesh	Devrakh Uparhar, Naini, Allahabad, (U.P.) M/s R. S. Constructions Chander Prakash Sharma I-635, Govindpuram, Ghaziabad, Uttar Pradesh-201001	Cuonsultancy Design Counsultancy	41,300
37.	Prof. A. K. Sachan	M/S D. K. Enterprises Dharmendra Kumar Yadav Cs-12, Shantipuram, Phaphamau, Prayagraj, Uttar Pradesh-212502	Design Counsultancy	18,000
38.	Prof. A. K. Sachan	Construction Division UP Jal Nigam Kaushambi, UP Jal Nigam, Executive Engineer, Construction Division, Naya Bazar, Bharwari, Kaushambi, Uttar Pradesh	Design Counsultancy	20,000
39.	Prof. R. C. Vaishya	Sri Ashish Bharadwaj Lt. Col. Garrison Engineer (AF) Military Engineer Services Bamrauli, Allahabad	Design Counsultancy	29,000
40.	Prof. R. C. Vaishya	Vastukalp Projects Private Limited, 520, First Floor, Saini Plaza, Choma Village, Gurgaon, Gurgaon, Haryana-122017	Design Counsultancy	47,200
41.	Prof. R. P. Tiwari	M/S UP Rajkiya Nirman Nigam Ltd List.MC. Unit Vishweshwaraiya Bhawan, UPRNNL, Vibhuti khand Gomti Nagar, Lucknow (U.P.)	III Party Inspection	1,77,000
42.	Dr. Kumar Venkatesh	DGM-FQA NTPC SSTPS, Shaktinagar, Sonebhadra	Testing	29,500
43.	Dr. Kumar Venkatesh	Project Manager Rites Ltd, NTPCuCHAHAR Type-III, 208 NTPC Colony Raibareli	Testing	11,800
44.	Prof. R. P. Tiwari	M/s Nextgen Infrastructure Pvt. Ltd. E-317, LGF Greater Kailash New Delhi	Testing	17,700
45.	Dr. Tamal Ghosh	M/s S. P. Singla Construction Pvt. LTD. Ministry of Road Transport & Highways, Sector D-127/11, Shantipuram Colony, Phaphamau-211013	Testing	47,200
46.	Prof. R. P. Tiwari	The Executive Engineer, Prayagraj Development Authority, Prayagraj	III Party Inspection	1,18,000
47.	Prof. Rakesh Kumar	Unit In charge, U.P. Rajkiya Nirman Nigam Ltd. Unit-10, King George Medical College Lucknow	III Party Inspection	94,400
48.	Prof. Rakesh Kumar	M/S U.P. Rajkiya Nirman Nigam Ltd List.MC. Unit Vishweshwaraiya Bhawan, UPRNNL, Vibhuti khand Gomti Nagar, Lucknow (U.P.)	III Party Inspection	1,41,600
49.	Prof. R. P. Tiwari	M/S UP Rajkiya Nirman Nigam Ltd List.MC. Unit Vishweshwaraiya Bhawan, UPRNNL, Vibhuti khand Gomti Nagar, Lucknow (U.P.)	III Party Inspection	1,77,000
50.	Dr. N. R. Rawal	Mr. A. Siva Kumar, DGM-FQA, NTPC SSTPS, Shakti Nagar Sonebhadra-231222 (UP)	Testing Cum Cuonsultancy	9,440
51.	Dr. Kumar Venkatesh	M/S Raj Kumar Engineering, 254, Ground Floor, Nh-80, Badpur, Patna, Bihar-803301	Testing	70,800
52.	Dr. Abhishek Kumar	M/s Bhanu Pratap Singh, 254, Ground 187, Pura Pandey, Karchhana, Allahabad (U.P.)	Testing Cum Cuonsultancy	9,912
53.	Prof. R. P. Tiwari	The Executive Engineer, U.P. Awam Awwam Vikas Parishad, Construction Unit-1, Prayagraj	III Party Inspection	88,500
54.	Dr. P. R. Pal	M/s C.K. Constructions Karan Israni, Plot	Testing	47,200



		No.5, 6 <sup>th</sup> Floor, Tower B, Logix Techno Park, Sector 127, Noida, Sector 127, Noida, Gautam Buddha Nagar, Uttar Pradesh-201301		
55.	Dr. P. R. Pal	M/s Garg Builders 125, Ground Floor, Chander Puri, Chander Puri, Chander Puri, Ghaziabad, Uttar Pradesh-201001	Testing	84,960
56.	Dr. P. R. Pal	M/s Hindalco Industries Limited Renukoot Works, ADM Building, Hindalco Industries Limited, Renukoot, Sonbhadra, Uttar Pradesh	Testing	21,240
57.	Dr. P. R. Pal	M/s Arvind Technocrats And Engineers LLP, PNC office Camp Nagina Kashipur Road, Sherkot, Adjacent to NH 74, P.O.Sherkot, Bijnor, Uttar Pradesh-246747	Testing	89,680
58.	Dr. P. R. Pal	M/S Kotwal Sahu 611/1B, Om Gayatri Nagar, Teliyanganj, Allahabad, Uttar Pradesh-211004	Testing	41,300
59.	Dr. P. R. Pal	M/S BUILTECH India & Co. Radhey Shyam Singh, H. No. 2009, Sector-16A, Vasundhara, Ghaziabad, Uttar Pradesh	Testing	13,570
60.	Dr. Kumar Venkatesh	M/S Raj Kumar Engineering, 254, Ground Floor, Nh-80, Badpur, Patna, Bihar, 803301	Testing	1,14,460
61.	Prof. Rakesh Kumar	M/S UP Rajkiya Nirman Nigam Ltd List. MC. Unit Vishweshwariya Bhawan, UPRNNL, Vibhuti khand Gomti Nagar, Lucknow (U.P.)	III Party Inspection	94,400
62.	Dr. Rama Shakar	Winst Infra Solution Private Limited, Office No F-6, first floor, Ishan Corporate Tower, Plot No. C-23/13, Vasundhra, Ghaziabad (U.P.)	Design Consultancy	4,95,600
63.	Prof. A. K. Singh	Shri Yogesh Gadwal Project Director Sasaram NHAI, Sasaram Bihar	National Highway Road Work	29,95,000
64.	Prof. Rakesh Kumar	General Manager U. P. Project Corporation Limited Zone-7, Gomti Barrage Bayatat, Gomti Nagar, Lucknow-226010	Design Consultancy	3,54,000
65.	Prof. R. P. Tiwari	M/S UP Rajkiya Nirman Nigam Ltd List. MC. Unit Vishweshwariya Bhawan, UPRNNL, Vibhuti khand Gomti Nagar, Lucknow (U.P.)	III Party Inspection	1,77,000
66.	Prof. R. P. Tiwari	M/S UP Rajkiya Nirman Nigam Ltd List. MC. Unit Vishweshwariya Bhawan, UPRNNL, Vibhuti khand Gomti Nagar, Lucknow (U.P.)	III Party Inspection	1,77,000
67.	Prof. Rakesh Kumar	M/S U.P. Project Corporation Ltd., Left Bank Gomti barrage, Gomti Nagar, Lucknow, Uttar Pradesh-226001	III Party Inspection	4,72,000
68.	Prof. Rakesh Kumar	M/S U.P. Project Corporation Ltd., Left Bank Gomti barrage, Gomti Nagar, Lucknow, Uttar Pradesh-226001	III Party Inspection	1,77,000
69.	Prof. R. P. Tiwari	RITES Limited (A Government of India Enterprises) Regional Project Office Lucknow 13-K.M. Milestone, N. H.-24 Lucknow-Sitapur Road, Lucknow-226201	Testing	17,700
70.	Prof. R. P. Tiwari	The Executive Engineer Provincial Division, UPPWD Prayagraj	III Party Inspection	5,31,000
71.	Dr. Anupam Rawat	Bridge Construction UP State Bridge	Design	25,960

		Corporation Limited, 16 Madan Mohan Malviya Marg, Lucknow, Uttar Pradesh-226001	Counsultancy	
72.	Dr. Anupam Rawat	Bridge Construction U.P. State Bridge Corporation Limited, 16 Madan Mohan Malviya Marg, Lucknow, Uttar Pradesh-226001	Design Counsultancy	25,960
73.	Dr. P. R. Pal	M/S Raj Kumar Engineering 254, Ground Floor, NH-80, Badpur, Patna, Bihar-803301	Testing	5,900
74.	Prof. A. K. Sachan	C L Gupta & Sons 182, R A Bazar, Cantt, Allahabad, Uttar Pradesh-211002	Design Counsultancy	59,000
75.	Dr. Kumar Venkatesh	Executive Engineer UPRNSS Ltd. ,56/37/B-1, 1 <sup>st</sup> Floor, Purapadin Baghambari Road, Prayagraj	Design Counsultancy	3,12,700
76.	Prof. A. K. Sachan	M/S Viddut Kumar Jain 00, Mahmudabad, Sitapur, Uttar Pradesh-261203	Design Counsultancy	20,000
77.	Prof. A. K. Sachan	M/S K.D. Construction, Morahu Malak Harhar, Phaphamau, Prayagraj	Design Counsultancy	36,000
78.	Dr. Goutam Ghosh	Bridge Construction UP State Bridge Corporation Limited, 16 Madan Mohan Malviya Marg, Lucknow, Uttar Pradesh-226001	Testing	1,01,480
79.	Prof. R. P. Tiwari	M/S UP Rajkiya Nirman Nigam Ltd List. MC. Unit Vishweshwariya Bhawan, UPRNNL, Vibhuti khand Gomti Nagar, Lucknow, (U.P.)	III Party Inspection	3,54,000
80.	Prof. S. J . Pawar	RAM Labhaya Yogendra Pal, 64, Vivekanand Marg, Allahabad, Uttar Pradesh-211003	Testing	2,950
81.	Prof. L. K. Mishra	Executive Engineer II Division, UP Jal Nigam Prayagraj 8, Maharishi Dayanand Marg, Civil Line, Prayagraj	III Party Inspection	23,600
82.	Prof. R. P. Tiwari	M/S UP Rajkiya Nirman Nigam Ltd List. MC. Unit Vishweshwariya Bhawan, UPRNNL, Vibhuti khand Gomti Nagar, Lucknow, (U.P.)	III Party Inspection	1,77,000
83.	Prof. R. P. Tiwari	M/S UP Rajkiya Nirman Nigam Ltd List. MC. Unit Vishweshwariya Bhawan, UPRNNL, Vibhuti khand Gomti Nagar, Lucknow (U.P.)	III Party Inspection	3,54,000
84.	Dr. Goutam Ghosh	M/S D. N. Gupta & Company Pawan Kumar Gupta, 638 G, SAFIPUR 1, Harjinder Nagar, Kanpur Nagar, Uttar Pradesh-208007	Design Counsultancy	1,18,000
85.	Prof. Rajesh Gupta	M/s NCC Limited 183, Sector-C, Pocket-2, Sushant Golf City, Lucknow, Uttar Pradesh	Testing	79,650
86.	Prof. Rajesh Gupta	M/s NCC Limited 183, Sector-C, Pocket-2, Sushant Golf City, Lucknow, Uttar Pradesh	Testing	85,550
87.	Prof. Rajesh Gupta	M/s NCC Limited 183, Sector-C, Pocket-2, Sushant Golf City, Lucknow, Uttar Pradesh	Testing	85,550
88.	Prof. Rajesh Gupta	M/s NCC Limited 183, Sector-C, Pocket-2, Sushant Golf City, Lucknow, Uttar Pradesh	Testing	1,03,250
89.	Dr. Rakesh Kumar	Project Manager U.P.R.N.N. Ltd., 12 Court Compound, Opp. Dayanand Degree College Civil Lines, Moradabad	III Party Inspection	1,77,000
90.	Prof. R. C. Vaishya	Lt. Col. Ashish Bhardwaj Garrison Engineer (AF) Military Engineering Services Allahabad	Testing Cum Counsultancy	4,40,000
91.	Dr. Rama Shanker	Construction and Design Services, Uttar	Testing	80,240

92.	Dr. N. R. Rawal	Pradesh Jal Nigam, TC-38, V Vibhooti Khand, Gomtinagar, Lucknow, Uttar Pradesh-226010	Testing	18,880
93.	Dr. Rama Shanker	Mr. Gyan Prakash, Cooperate HR Head, Shyam Group, Prayagraj (Allahabad)	Testing	5,900
94.	Dr. Kumar Venkatesh	Additional Chief Officer District Panchayat Kaushambi, Uttar Pradesh	Testing	5,900
95.	Prof. R. K. Singh, EED	Bridge Construction UP State Bridge Corporation Limited, Up State Bridge Corporation Limited, 16 Madan Mohan Malviya Marg, Lucknow, Uttar Pradesh-226001	Design Counsultancy	52,200
96.	Dr. Ramashanker	K. Ramachandra Rao, Transmission & Project Pvt. Ltd. Registered Office at "Praveen Chambers" 305, B-Block Kushal Towers, Khairatabad, Hyderabad (Telengana), India	Testing	76,700
97.	Dr. Ramashanker	JMC Projects (India) Limited Tower 3, 3RD - Floor, Okaya Centre, B-5, B Block, Sector 62, Noida, Gautam Buddha Nagar, Uttar Pradesh	Testing	5,900
98.	Prof. R. P. Tiwari	The Supeintending Engineer, Rural Engineering Department, Prayagraj	Design Counsultancy	94,400
99.	Dr. Kumar Venkatesh	Executive Engineer Postal Civil Division Prayagraj (Allahabad)	Testing	15,340
100.	Dr. Kumar Venkatesh	Adycon Concrete LLP S-2 S-3, 2 <sup>nd</sup> floor, Vinayak PUSP, 77 Elgin Road, Allahabad, Uttar Pradesh-211001	Design Counsultancy	41,300
101.	Dr. Kumar Venkatesh	M/s R.S. Constructions Chander Prakash Sharma I-635, Govindpuram, Govindpuram, Ghaziabad, Uttar Pradesh-201001	III Party Inspection	1,77,000
102.	Prof. R.P.Tiwari	M/s UP Rajkiya Nirman Nigam Ltd List .MC. Unit Vishweshwariya Bhawan, UPRNML, Vibhuti khand Gomti Nagar, Lucknow, Uttar Pradesh-226010	III Party Inspection	1,77,000
103.	Prof. R.P.Tiwari	M/s UP Rajkiya Nirman Nigam Ltd List .MC. Unit Vishweshwariya Bhawan, UPRNML, Vibhuti khand Gomti Nagar, Lucknow, Uttar Pradesh-226010	Testing	5,900
104.	Dr. Rama Shanker	Bridge Construction UP State, Bridge Corporation Limited, 16 Madan Mohan Malviya Marg, Lucknow, Uttar Pradesh, 226001	Testing	2,59,600
105.	Dr. Rama Shanker	M/s Shri Balaji Enterprises Ankit Singh 0, Near Mother Terrasa School, Bastepur, Raebareli, Raebareli, Uttar Pradesh-229001	Design Counsultancy	15,000
106.	Prof. A. K. Sachan	M/s Mukesh Gupta 38/144, Narial Bazar Kanpur-208001	Testing	20,650
107.	Dr. Rama Shanker	Construction and Design Services Uttar Pradesh Jal Nigam TC-38, V Vibhooti Khand, Gomtinagar, Lucknow, Uttar Pradesh-226010	Testing Cum Consultancy	2,71,400
108.	Prof. Rakesh Kumar	Project Manager, UPPCL Manufacturing Unit-13 M. I. G.-67, Indira Nagar (Near Power House) Banda-210001	Design	1,80,000
109.	Prof. A. K. Sachan	M/s Awasthi Tubewell Company Pankaj Kumar		

	Awasthi 134, Kamla Nagar, Collector Ganj, Fatehpur, Uttar Pradesh-212601	Counsultancy	
109. Prof. R. P. Tiwari	M/s Mehrotra Buildcon Private Limited 9, Industrial Area, Rewa Road, Satna, M.P.	Testing	23,600
110. Prof. R. P. Tiwari	Renaissance Archconsultant Private Limited, E-611b, E Block, Basement, Grater Kailash- 2, Delhi, South Delhi, Delhi-110048	Design Counsultancy	1,00,300
111. Dr. Varun Singh	Girraj Ji Stone Crushers Pvt. Ltd. 40-G, Siddharth Enclave, Mau Road, Khandari, Agra, Uttar Pradesh-282007	Testing	8,260
112. Dr. H. K. Pandey	Executive Engineer CPWD, MNNIT Campus, Allahabad	Design Counsultancy	97,940
113. Dr. Rama Shanker	The Project Manager (Civil) RITES Ltd. Project Office NTPC Unchahar Type-II, 208 NTPC Colony, Raebareli, Uttar Pradesh	Testing	44,840
114. Dr. Rama Shanker	M/s G. S. Express Pvt. Ltd. C-877, Mahanagar Lucknow, Uttar Pradesh	Testing	1,13,280
115. Dr. Varun Singh	Girraj Ji Stone Crushers Pvt. Ltd. 40-G, Siddharth Enclave, Mau Road, Khandari, Agra, Uttar Pradesh-282007	Testing	8,260
116. Dr. Rama Shanker	M/s K. G. N. Enterprises Sabir Khan 710/26, Khinni Talla, Raebareli, Uttar Pradesh	Design Counsultancy	1,77,000
117. Prof. R. P. Tiwari	M/s Narayan Singh Chandrol 1585 A, Matiyara Road, Allahpur, Allahabad, Uttar Pradesh	Design Counsultancy	1,18,000
118. Dr. Tanmay Mondal	Shiv Karan 0, Malak Pinjari Chakiya, Tulsipur, Sirathu, Kaushambi, Uttar Pradesh, 212217	Testing	23,718
119. Dr. Varun Singh	Girraj Ji Stone Crushers Pvt. Ltd. 40-G, Siddharth Enclave, Mau Road, Khandari, Agra, Uttar Pradesh-282007	Testing	8,260
120. Dr. Varun Singh	Girraj Ji Stone Crushers Pvt. Ltd. 40-G, Siddharth Enclave, Mau Road, Khandari, Agra, Uttar Pradesh-282007	Testing	8,260
121. Dr. Deepak Kumar	M/s Garg Builders 125, Ground Floor, Chander Puri, Chander Puri, Chander Puri, Ghaziabad, Uttar Pradesh-201001	Testing	64,900
122. Dr. Satish Kumar	M/s Suresh Chand Gupta, 00, Out Side Khanderao Gate, Behind Shree Ram Lodge, Jhansi, Uttar Pradesh-284002	Testing	56,050
123. Dr. Anupam Rawat	M/s Uttar Pradesh Power Transmission Corporation Shakti Bhawan, 14-A, Ashok Marg, Ashok Marg, Lucknow, Uttar Pradesh	Design Counsultancy	70,800
124. Dr. N. R. Rawal	M/s NCC Limited 183, Sector-C, Pocket-2, Sushant Golf City, Lucknow, Uttar Pradesh	Design Counsultancy	11,80,000
125. Prof. R. C. Vaishya	Dr. A. K. Vidyarthi Additional Director & I/C WQM-II Central Pollution Control Board, Parivesh Bhawan, Delhi-110032	Inspection	14,78,392
126. Prof. R. P. Tiwari	M/s Akansha Construction 38/1/35, Tulsiyani Enclave, Louthier Road, George Town, Allahabad, Uttar Pradesh-211003	III Party Inspection	23,600
127. Prof. Rakesh Kumar	M/S U.P. Project Corporation Ltd. Up Project	III Party	94,400

	Corporation LTD, Left Bank Gomti barrage, Gomti Nagar, Lucknow, Uttar Pradesh-226001	Inspection	
128.	Dr. Kumar Venkatesh Executive Engineer CD-1, PWD, Prayagraj	Testing & Design Counsultancy	4,51,350
129.	Dr. Kumar Venkatesh Executive Engineer CD-1, PWD, Prayagraj	Testing & Design Counsultancy	3,34,825
130.	Dr. Dabolina Basu Mr. Atul Prakash (DGM/C/AP) Chitrakoot Airport Project, RITES Ltd. C/o Mr. Vinod Kumar Chandel S/o Bhola Singh, 1st Floor, House No.97, Pasewda Mohalla, Bharatpuri Post-Karwi, Dist. Chitrakoot, Uttar Pradesh	Testing	7,965
131.	Dr. Vrun Singh R K Mishra and CO Near Chauhan Petrol Pump, Badhuali Chauraha, Robertsganj, Sonbhadra, Uttar Pradesh-231222	Testing	70,800
132.	Dr. Vrun Singh R K Mishra and CO Near Chauhan Petrol Pump, Badhuali Chauraha, Robertsganj, Sonbhadra, Uttar Pradesh-231222	Testing	15,340
133.	Dr. Dabolina Basu M/s G. S. Express Pvt. LTD. Khasra No. 844, Kalli Paschim, Near SGPGI, Raibereilly Road, Lucknow-226014 (U.P.)	Testing & Design Counsultancy	7,965
134.	Dr. Vrun Singh R K Mishra and CO Near Chauhan Petrol Pump, Badhuali Chauraha, Robertsganj, Sonbhadra, Uttar Pradesh-231222	Testing	10,620
135.	Prof. R. P. Tiwari The Executive Engineer, CD-2, U.P.P.W.D., Mirzapur	Design Counsultancy	23,600
136.	Prof. R. P. Tiwari Shree Balaji Construction And Engineering Services Private Limited, Mig-40, Indra Nagar, Banda, Indra Nagar, Banda, Uttar Pradesh	Design Counsultancy	23,600
137.	Dr. Vijay Kumar Bridge Construction UP State Bridge Corporation Limited, 16 Madan Mohan Malviya Marg, Lucknow, Uttar Pradesh-226001	Testing	5,900
138.	Prof. Rakesh Kumar Princcipal Jawahar Navodaya Vidyalaya Meja Khas, Allahabad (U.P)	III Party Inspection	94,400
139.	Dr. Kumar Venkatesh Adycon Concrete LLP S-2 S-3, 2 <sup>nd</sup> floor, Vinayak PUSP, 77 Elgin Road, Allahabad, Uttar Pradesh-211001	Testing	30,680
140.	Prof. Rakesh Kumar M/S UP Rajkiya Nirman Nigam Ltd List. MC. Unit Vishweshwaraiya Bhawan, UPRNNL, Vibhuti khand Gomti Nagar, Lucknow, Uttar Pradesh-226010	III Party Instection	1,18,000
141.	Dr. A. K. Sachan S. K. R. G. Engineers 6/584, Vikas Nagar, Lucknow, Uttar Pradesh-226022	Design Counsultancy	60,000
142.	Dr. Anupam Rawat Construction and Design Services, Uttar Pradesh Jal Nigam, Tc-38, V Vibhooti Khand, Gontinagar, Lucknow, Uttar Pradesh-226010	Design Counsultancy	59,000
143.	Dr. Anupam Rawat Construction and Design Services, Uttar Pradesh Jal Nigam, Tc-38, V Vibhooti Khand, Gontinagar, Lucknow, Uttar Pradesh-226010	Design Counsultancy	59,000
144.	Dr. Anupam Rawat Construction and Design Services, Uttar Pradesh Jal Nigam, Tc-38, V Vibhooti Khand,	Design Counsultancy	59,000

145.	Dr. Rama Shanker	Gomtinagar, Lucknow, Uttar Pradesh-226010 M/S Suresh Chand Gupta, 00, Out Side Khanderao Gate, Behind Shree Ram Lodge, Jhansi, Uttar Pradesh-284002	Testing	28,320
146.	Dr. Anupam Rawat	Construction and Design Services, Uttar Pradesh Jal Nigam, Tc-38, V Vibhooti Khand, Gomtinagar, Lucknow, Uttar Pradesh-226010	Design Counsultancy	59,000
147.	Dr. Anupam Rawat	Construction and Design Services, Uttar Pradesh Jal Nigam, Tc-38, V Vibhooti Khand, Gomtinagar, Lucknow, Uttar Pradesh-226010	Design Counsultancy	59,000
148.	Dr. Anupam Rawat	Construction and Design Services, Uttar Pradesh Jal Nigam, Tc-38, V Vibhooti Khand, Gomtinagar, Lucknow, Uttar Pradesh-226010	Design Counsultancy	59,000
149.	Dr. Anupam Rawat	Construction and Design Services, Uttar Pradesh Jal Nigam, Tc-38, V Vibhooti Khand, Gomtinagar, Lucknow, Uttar Pradesh-226010	Design Counsultancy	59,000
150.	Dr. Rama Shanker	M/S NCC Limited 183, Sector-C, Pocket-2, Sushant Golf City, Lucknow, Uttar Pradesh	Testing	64,900
151.	Dr. Rama Shanker	M/S NCC Limited 183, Sector-C, Pocket-2, Sushant Golf City, Lucknow, Uttar Pradesh	Testing	64,900
152.	Dr. Rama Shanker	Jay Prakash Dubey 0, Bharuhana, Sadar, Mirzapur, Uttar Pradesh-231001	Testing	29,500
153.	Dr. Rama Shanker	U. P. State Construction and Infrastructure Development Corporation Limited TC/46-V, Vibhuti Khand, Gomti Nagar, Lucknow, Uttar Pradesh-226010	Testing	59,000
154.	Dr. Rama Shanker	M/s Shri Balaji Enterprises Ankit Singh, 0, Near Mother Terrasa School, Bastepur, Raebareli, Uttar Pradesh-229001	Testing	6,490
155.	Dr. Rama Shanker	M/s Satish Chandra Singh, Ghurahipatti, Sadar, Ghurahupatti, Mirzapur, Uttar Pradesh	Testing	41,300
156.	Dr. Rama Shanker	M/s Satish Chandra Singh Ghurahipatti, Sadar, Ghurahupatti, Mirzapur, Uttar Pradesh	Testing	8,850
157.	Dr. Rama Shanker	M/s Hindalco Industries Limited Renukoot Works, ADM Building, Hindalco Industries Limited, Renukoot, Sonbhadra, Uttar Pradesh	Testing	10,620
158.	Dr. Rama Shanker	M/s Kotwal Sahu 61I/1B, Om Gayatri Nagar, Teliyarganj, Allahabad, Uttar Pradesh-211004	Testing	7,080
159.	Dr. Rama Shanker	M/s Kotwal Sahu 61I/1B, Om Gayatri Nagar, Teliyarganj, Allahabad, Uttar Pradesh-211004	Testing	37,760
160.	Dr. Rama Shanker	U P State Construction and Infrastructure Development Corporation Limited TC/46-V, Vibhuti Khand, Gomti Nagar, Lucknow, Uttar Pradesh-226010	Testing	15,930
161.	Dr. Rama Shanker	Maanak Homes Private Limited G-401, Vivek Vihar, Awho Colony, Sector-82, Noida, Gautam Buddha Nagar, Uttar Pradesh	Testing	59,590
162.	Dr. Rama Shanker	M/s G.S. Express Pvt. Ltd. Khasra No. 844, Raibreilly Road, Kalli Paschim, Near SGPGI, Lucknow, Uttar Pradesh-226014	Testing	5,900



163.	Dr. Rama Shanker	M/s P.N.C. Infratech Ltd. PNC Tower, 3/22 D, Civil Lines, Bypass Road, Agra, Uttar Pradesh	Testing	6,90,300
164.	Dr. Rama Shanker	M/s P.N.C. Infratech Ltd. PNC Tower, 3/22 D, Civil Lines, Bypass Road, Agra, Uttar Pradesh	Testing	6,90,300
165.	Dr. Rama Shanker	M/s P.N.C. Infratech Ltd. PNC Tower, 3/22 D, Civil Lines, Bypass Road, Agra, Uttar Pradesh	Testing	3,06,800
166.	Dr. Rama Shanker	M/s P.N.C. Infratech LTD. PNC Tower, 3/22 D, Civil Lines, Bypass Road, Agra, Uttar Pradesh, 282002	Testing	2,30,100
167.	Dr. Rama Shanker	M/s Vensa Infrastructure Limited, Allopathic Medical College Campus, Naraini Road, Banda, Banda, Uttar Pradesh-210001	Testing	2,30,100
168.	Dr. Rama Shanker	M/s R. D. Engineers Sarvices Co. Sunil Kumar Patel 0, Ghaghra Latghat, Sagri, Azamgarh, Uttar Pradesh-276136	Testing	2,71,400
169.	Prof. R. P. Tiwari	Construction and Design Services, Uttar Pradesh Jal Nigam, Tc-38, V Vibhooti Khand, Gontinagar, Lucknow, Uttar Pradesh-226010	Third Party Inspection	3,54,000
170.	Dr. Kumar Venkatesh	Executive Engineer CPWD Prayagraj	Design Consultancy	2,89,100
171.	Dr. Rama Shanker	Larsen and Toubro-Nfrastructure VERTICAL Larsen & Toubro Limited Plot No B., GROUND Floor, L and T Csti, Kandola Dholana Road, Pilkhuwa, Hapur, Uttar Pradesh-245304	Testing	2,59,600
172.	Prof. Rakesh Kumar	M/s Jeet Bahadur Singh B.K.O. Uttar Pradesh Jal Nigam 0, Mirzapur, Kajha, Mau, Uttar Pradesh-275101	Design Consultancy	1,77,000
173.	Prof. Rakesh Kumar	M/s UP Rajkiya Nirman Nigam Ltd List. MC. Unit Vishweshwariya Bhawan, UPRNML, Vibhuti khand Gombi Nagar, Lucknow, Lucknow, Uttar Pradesh-226010	III Party Insection	1,77,000
174.	Dr. Kumar Venkatesh	Aditya Construction 303, 3 <sup>rd</sup> , Krishna Apartment, Ashok Nagar, Ranchi, Jharkhand	Design Consultancy	3,71,700
175.	Dr. Kumar Venkatesh	Bridge Construction UP State Bridge Corporation Limited, 16 Madan Mohan Malviya Marg, Lucknow, Uttar Pradesh-226001	Testing	29,500
176.	Dr. Kumar Venkatesh	Bridge Construction UP State Bridge Corporation Limited, 16 Madan Mohan Malviya Marg, Lucknow, Uttar Pradesh-226001	Testing	5,900
177.	Dr. Kumar Venkatesh	Bridge Construction UP State Bridge Corporation Limited, 16 MADan Mohan Malviya Marg, Lucknow, Uttar Pradesh	Testing	29,500
178.	Dr. Kumar Venkatesh	Adycon Concrete LLP S-2 S-3, 2nd floor, Vinayak Pusp, 77 Elgin Road, Allahabad, Uttar Pradesh-211001	Testing	23,010
179.	Dr. Rama shanker	M/s G. S. Express Pvt. Ltd. Khasra no. 844, Raibreilly Road, Kalli Paschim, Near SGPGI, Lucknow, Uttar Pradesh-226014	Testing	35,400
180.	Dr. N. R. Rawal	Mr. A. Siva Kumar, DGM-FQA, NTPC SSTPS, Shaktinagar Sonebhadra-231222 (UP)	Testing	9,440



181.	Dr. N. R. Rawal	Mr. Ravi Ranjan Municipal Commissioner Prayagraj (UP)	Testing	4,83,800
182.	Prof. R. P. Tiwari	Hausla Prasad Mishra 47, Baghambari Housing Scheme, Allahpur, Allahabad, Uttar Pradesh-211006	III Party Inspection	23,600
183.	Dr. Anupam Rawat	Construction and Design Services Uttar Pradesh Jal Nigam Tc-38, V Vibhooti Khand, Gomtinagar, Lucknow, Uttar Pradesh-226010	Design Consultancy	59,000
184.	Prof. A. K. Sachan	Shivay Onstruction Anil Kumar Gupta Banda Road, Banda Road, Post- AtarrA, Banda, Uttar Pradesh-210201	Design Consultancy	20,000
185.	Dr. V. P. Singh	M/s Baba Enterprises Pushp Raj Singh Saraswati Puram, Kanaila, Naini, Allahabad, Uttar Pradesh-211008	Testing	11,800
186.	Dr. V. P. Singh	M/s P.N.C. Infratech Ltd. PNC Tower, 3/22 D, Civil Lines, Bypass Road, Agra, Uttar Pradesh	Testing	29,500
187.	Dr. V. P. Singh	M/s P.N.C. Infratech Ltd. PNC Tower, 3/22 D, Civil Lines, Bypass Road, Agra, Uttar Pradesh	Testing	29,500
188.	Dr. V. P. Singh	M/s P.N.C. Infratech Ltd. PNC Tower, 3/22 D, Civil Lines, Bypass Road, Agra, Uttar Pradesh	Testing	29,500
189.	Dr. V. P. Singh	M/s P.N.C. Infratech Ltd. PNC Tower, 3/22 D, Civil Lines, Bypass Road, Agra, Uttar Pradesh	Testing	29,500
190.	Dr. V. P. Singh	RSVS Consulting & Research Private Limited P No 455/567, Mumfordganj, Allahabad, Uttar Pradesh-211001	Design Consultancy	41,300
191.	Dr. V. P. Singh	Sri Manish Kumar Tikariha Additional General Manager (FGD) Korba Super Thermal Power Station	Testing	29,500
192.	Prof. R. C. Vaishya	Nextgen Infoworld Private Limited, E-317, Diamond Basement, Greater Kailash-Part 1, New Delhi, South Delhi, Delhi-120048	Testing	35,400
193.	Prof. R. P. Tiwari	Construction And Design Services, Uttar Pradesh Jal Nigam, TC-38, V Vibhooti Khand, Gomtinagar, Lucknow, Uttar Pradesh-226010	III Party Inspection	3,54,000
194.	Prof. R. P. Tiwari	The Apar Mukhya Adhikari Jila Panchayat, Jaunpur	III Party Inspection	1,77,000
195.	Dr. V. P. Singh	Chief Engineer L.I.C., NCZ/Engg./BO-Fatehgarh	Testing cum Consultancy	1,29,800
196.	Dr. Kumar Venkatesh	Adycon Concrete LLP S-2 S-3, 2nd floor, Vinayak PUSP, 77 Elgin Road, Allahabad, Allahabad, Uttar Pradesh-211001	Testing	23,010
197.	Dr. V. P. Singh	Project Manager U. P. Project Corporation Ltd. Unit-13, Banda, Uttar Pradesh	Testing	35,400
198.	Prof. R. P. Tiwari	The Executive Engineer P.W.D. CD-2, Mirzapur	Design Consultancy	47,200
199.	Prof. R. P. Tiwari	The Executive Engineer CD-2, P.W.D., Ayodhya	III Party Inspection	1,77,000
200.	Prof. Rakesh Kumar	Construction and Design Services, Uttar Pradesh Jal Nigam, TC-38, V Vibhooti Khand, Gomtinagar, Lucknow, Uttar Pradesh-226010	III Party Inspection	1,18,000

201.	Prof. A. K. Sachan	M/S Mukesh Gupta38/144, Nariyal Bazar, Kanpur, Kanpur Nagar, Uttar Pradesh-208001	Design Consultancy	16,000
202.	Prof. R. P. Tiwari	M/S Mehrotra Buildcon (P) Ltd. 1009, 10 <sup>th</sup> floor, World Trade Tower, Sector-16, Noida, Gautam Buddha Nagar Uttar Pradesh-201301	III Party Inspection	59,000
203.	Dr. Vijay Kumar	Assistant Engineer Minor Irrigation Division Imamganj, Gaya, Bihar	Testing	1,06,200
204.	Dr. Rama Shankar	Bhugan Infracon Private Limited 121/561, Shastri Nagar, Kanpur, Kanpur Nagar, Uttar Pradesh-208005	Testing	60,770
205.	Dr. Rama Shankar	M/S NCC Limited 183, Sector-C, Pocket-2, Sushant Golf City, Lucknow, Uttar Pradesh	Testing	17,700
206.	Dr. Rama Shankar	M/s Satish Chandra Singh Ghurahipatti, Sadar, Ghurahupatti, Mirzapur, Uttar Pradesh	Testing	46,610
207.	Dr. Nitin Singh	M/S NCC Limited183, Sector-C, Pocket-2, Sushant Golf City, Lucknow, Uttar Pradesh	Testing	1,06,200
208.	Prof. R. P. Tiwari	Jmc Projects (India) Limited Plot No. 139,208, 209,210, AT-Mahuli, Po-Paliguda, PS-Baipariguda, Koraput, Odisha-764083	Design Consultancy	14,75,000
209.	Dr. Goutam Ghosh	M/s Bharat Construction Meraj Ahmad 26/2, C/o Mohd. Haidar Khan, Muir Road, Allahabad, Uttar Pradesh-211001	Design Consultancy	64,900
210.	Dr. V. P. Singh	Pranvi Infra Projects and Quality Control Private Limited K-2/2239, Meerut, Shastri Nagar, Meerut, Uttar Pradesh-250001	Design Consultancy	81,420
211.	Dr. Anupam Rawat	Construction and Design Services, Uttar Pradesh Jal Nigam, TC-38, V Vibhooti Khand, Gomtinagar, Lucknow, Uttar Pradesh-226010	Design Coconsultancy	99,710
212.	Dr. Anupam Rawat	M/s Uttar Pradesh Power Transmission Corporation Limited, Shakti Bhawan, 14-A, Ashok Marg, Ashok Marg, Lucknow, Uttar Pradesh-226020	Design Consultancy	69,620
213.	Dr. Kumar Venkatesh	M/s Raj Kumar Engineering 254, Ground Floor, Nh-80, Badpur, Patna, Bihar-803301	Testing	30,680
214.	Dr. Debolina Basu	Nextgen Infoworld Private Limited, E-317, Diamond Basement, Greater Kailash-Part 1, New Delhi, South Delhi, Delhi-110048	Testing	41,300
215.	Dr. Ramashankar	M/s T.R.G. Industries P.LTD. 127/W/580, Keshav Nagar, Kanpur Nagar, Uttar Pradesh	Testing	9,440
216.	Dr. Ramashankar	M/s T.R.G. Industries P. Ltd. 127/W/580, Keshav Nagar, Kanpur Nagar, Uttar Pradesh	Testing	9,440
217.	Dr. Varun Singh	M/s Chinmay Construction Ravi Bansal Office No. 705 ,706, 7 <sup>th</sup> floor, Urbanac Business Park, A1A Vibhuti Khand, Gomti Nagar, Lucknow, Uttar Pradesh-226010	Testing	5,900
218.	Dr. Ramashankar	Kkspun India Limited Shop No 39, 1st Floor, G.D. Complex, Marhatal, Jabalpur, Madhya Pradesh-482002	Testing	53,100
219.	Prof. A. K. Sachan	M/s Sai Construction N 1/65 C 6, Sewa Upvan Colony, Samneghat, Lanka, Varanasi, Uttar	Design Consultancy	20,000

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220.	Dr. Ramashankar	M/S T.R.G. Industries P. LTD. 127/W/580, Keshav Nagar, Keshav Nagar, Kanpur Nagar, Uttar Pradesh-208023	Testing	18,880
221.	Dr. V. P. Singh	M/s P.N.C. Infratech Ltd. PNC Tower, 3/22 D, Civil Lines, Bypass Road, Agra, Uttar Pradesh	Testing cum Consultancy	25,37,000
222.	Dr. V. P. Singh	M/s P.N.C. Infratech Ltd. PNC Tower, 3/22 D, Civil Lines, Bypass Road, Agra, Uttar Pradesh	Design Consultancy	11,74,100
223.	Dr. Y. K. Prajapati	M/s UP Rajkiya Nirman Nigam Ltd LIST.MC. Unit Vishweshwaraiya Bhawan, UPRNNL, Vibhuti khand Gomti Nagar, Lucknow, Uttar Pradesh-226010	III Party Inspection	1,77,000
224.	Prof. R. P. Tiwari	M/s UP Rajkiya Nirman Nigam Ltd LIST.MC. UNIT Vishweshwaraiya Bhawan, UPRNNL, Vibhuti khand Gomti Nagar, Lucknow, Uttar Pradesh-226010	III Party Inspection	1,77,000
225.	Dr. Pramod Soni	Welspun Enterprises Limited 2B-1470-3, 1-2 Floor, Ahmed Bag, Court Road, Saharanpur, Saharanpur, Uttar Pradesh-247001	Testing	5,45,160
226.	Dr. Pramod Soni	Mr. Rohit Khanna Chief Engineer PDA, Prayagraj (Allahabad)	Design Consultancy	3,06,800
227.	Dr. Ramashankar	M/s NCC Limited 183, Sector-C, Pocket-2, Sushant Golf City, Lucknow, Lucknow, Uttar Pradesh-226030	Testing	1,00,300
228.	Prof. A. K. Sachan	M/s Diksha Construction Vishun Chand, 211/158, Nayapura, Karely, Allahabad, Uttar Pradesh-211016	Design Consultancy	16,000
229.	Dr. Gautam Ghosh	M/s NCC Limited 183, Sector-C, Pocket-2, Sushant Golf City, Lucknow, Uttar Pradesh	Testing	2,83,200
230.	Dr. Ramashankar	M/s Vascon Engineers Limited 1268, Ground Floor, Arun Vihar, Sector 37, Noida, Gautam Buddha Nagar, Uttar Pradesh, 201301	Testing	1,41,600
231.	Prof. Rakesh Kumar	Executive Engineer 30 <sup>th</sup> , (V./Y) Circle Public Works Department, Lucknow	III Party Inspection	5,90,000
232.	Prof. R. P. Tiwari	Executive Engineer World Bank Division, U.P.P.W.D., Aligarh	III Party Inspection	4,72,000
233.	Dr. Gautam Ghosh	JMK Enterprises 358 A, Mutthiganj, Allahabad, Uttar Pradesh-211003	Testing	5,310
234.	Dr. Anupam Rawat	Construction And Design Services, Uttar Pradesh Jal Nigam TC-38, V Vibhooti Khand, Gontinagar, Lucknow, Uttar Pradesh-226010	Design Consultancy	59,000
235.	Dr. Kumar Venkatesh	M/s Meja Urja Nigam Private Limited Kohdar Ghat, Meja, Allahabad, Uttar Pradesh	Design Consultancy	3,89,400
236.	Dr. Gautam Ghosh	M/s NCC Limited 183, Sector-C, Pocket-2, Sushant Golf City, Lucknow, Uttar Pradesh	Design Consultancy	2,12,400
237.	Dr. Gautam Ghosh	M/s NCC Limited 183, Sector-C, Pocket-2, Sushant Golf City, Lucknow, Uttar Pradesh	Design Consultancy	2,12,400
238.	Dr. Ramashankar	M/s Vascon Engineers Limited 1268, Ground Floor, Arun Vihar, Sector 37, Noida, Gautam Buddha Nagar, Uttar Pradesh-201301	Testing	3,06,800

239.	Prof. R. C. Vaishya	Dr. A. K. Vidyarthi Additional Director & DH-WQM-II Central Pollution Board (CPCB) Parivesh Bhavan, East Arjun Nagar, Delhi-110032	Design Consultancy	23,87,288
240.	Prof. A. K. Sachan	M/s Diksha Construction Vishun Chand 211/158, Nayapura, Karely, Allahabad, Uttar Pradesh-211016	Design Consultancy	15,000
241.	Prof. A. K. Sachan	M/s Viddut Kumar Jain 00, Mahmudabad, Sitapur, Uttar Pradesh-261203	Design Consultancy	15,000
242.	Prof. A. K. Sachan	Dinesh Kumar Agarwal, 912/1, Near Jal Sansthan Office C P Mission Compound Jhansi, Jhansi, Uttar Pradesh-284003	Design Consultancy	16,000
243.	Prof. R. P. Tiwari	M/s Akansha Construction 38/1/35, Tulsiyani Enclave, Louthar Road, George Town, Allahabad, Uttar Pradesh-211003	Testing	47,200
244.	Dr. Ramashankar	M/S Shri Balaji Enterprises, Ankit Singh, Near Mother Terrasa School, Bastepur, Raebareli, Uttar Pradesh-229001	Testing	62,540
245.	Dr. Vijay Kumar	Senior Section Engineer P.Way/C Sultanpur, NR	Testing	5,900
246.	Dr. Ramashankar	M/s G.S. Express Pvt. Ltd. Khasra No. 844, Raibreilly Road, Kalli Paschim, near SGPGI, Lucknow, Uttar Pradesh-226014	Testing	28,320
247.	Dr. Ramashankar	Prabha Engineering Construction Umesh Jaiswal 69/57, New Baihrana, Allahabad, Uttar Pradesh-211003		2,18,300
248.	Prof. R. P. Tiwari	The Chief Engineer Nagar Nigam Prayagraj	III Party Inspection	4,72,000
249.	Prof. R. p. Tiwari	Construction and Design Services Uttar Pradesh Jal Nigam TC-38, Vibhooti Khand, Gomtinagar, Lucknow, Uttar Pradesh-226010	III Party Inspection	94,400
250.	Dr. H. K. Panday	Executive Engineer CPWD, Chandauli Project, CRPF Camp, Sonhul Chakia (U.P.)	Design Consultancy	1,35,700
251.	Dr. Vijay Kumar	Executive Engineer Construction Division Uttar Pradesh Jal Nigam (Rural) Bharwari, Kaushambi-212201	Testing	60,180
252.	Prof. R.P. Tiwari	JMC Projects (India) Limited Plot No.139, 208,209,210, AT-Mahuli, PO-Paliguda, PS-Baipariguda, Koraput, Odisha-764083	Design Consultancy	14,75,000
253.	Dr. Ramashankar	M/s NCC Limited 183, Sector-C, Pocket-2, Sushant Golf City, Lucknow, Uttar Pradesh	Testing	65,490
254.	Dr. Ramashankar	M/s NCC Limited 183, Sector-C, Pocket-2, Sushant Golf City, Lucknow, Uttar Pradesh	Testing	1,00,300
255.	Dr. Rama Shnakar	Executive Engineer Sharda Sahayak Khand 51 Pratapgarh 01, Sharda Sahayak Khand Cannal Office, Front of District Court, Sadar Pratapgarh, Uttar Pradesh-230001	Testing	25,960
256.	Dr. Rama Shankar	M/s C.K. Constructions Karan Israni Plot NO.5, 6 <sup>th</sup> Floor, Tower B, Logix Techno Park, Sector 127, Noida, Sector 127, Noida,	Testing	53,100

Gautam Buddha Nagar, Uttar Pradesh			
257.	Dr. Rama Shnakar Mr. Maheshwari Sankar	V. K. Gupta & Associates Shop AT Ambala Road, Near M/s Des Raj Aashok Kumar Petrol Pump, Bharat Petroleum, Sarsawa, Saharanpur, Uttar Pradesh-247232	Testing 1,06,200
258.	Dr. Rama Shnakar	Larsen And Toubro - Infrastructure Vertical Larsen & Toubro Limited Plot No. B., Ground Floor, L and T CSTI, Kandola Dholana Road, Pilkhuwa, Hapur, Uttar Pradesh-245304	Testing 11,800
259.	Dr. Kumar Venkatesh	Bulk MRO Industrial Supply Private Limited Block No. A, Office No. 1019, 10th Floor,, Siddhi Vinayak Tower - A, Survey No. 212/2, DCP Office, Off. S.G. Highway, Markarba, Ahemdabad, Ahmedabad, Gujarat-380051	Testing 29,500
260.	Prof. Rakesh Kumar	Construction And Design Services, Uttar Pradesh Jal Nigam, TC-38, V Vibhooti Khand, Gomtinagar, Lucknow, Uttar Pradesh-226010	III Party Inspection 5,90,000
261.	Prof. Rakesh Kumar	Construction And Design Services, Uttar Pradesh Jal Nigam, TC-38, V Vibhooti Khand, Gomtinagar, Lucknow, Uttar Pradesh-226010	III Party Inspection 1,77,000
262.	Prof. Rakesh Kumar	M/s UP Rajkiya Nirman Nigam Ltd List.MC. Unit Vishweshwariya Bhawan, UPRNNL, Vibhuti khand Gomti Nagar, Lucknow, Uttar Pradesh-226010	III Party Inspection 1,77,000
263.	Prof. Rakesh Kumar	M/s UP Rajkiya Nirman Nigam Ltd List. MC. Unit Vishweshwariya Bhawan, UPRNNL, Vibhuti khand Gomti Nagar, Lucknow, Uttar Pradesh-226010	III Party Inspection 1,77,000
264.	Dr. Rama Shankar	M/s T.R.G. Industries P. LTD. 127/W/580, Keshav Nagar, Keshav Nagar, Kanpur Nagar, Uttar Pradesh-208023	Testing 9,440
265.	Dr. Ramashankar	Executive Engineer Sharda Sahayak Khand 51 Pratapgarh 01, Sharda Sahayak Khand Cannal Office, Front of District Court, Sadar Pratapgarh, Uttar Pradesh-230001	Testing 25,960
266.	Dr. Rama Shankar	Executive Engineer Sharda Sahayak Khand 51 Pratapgarh 01, Sharda Sahayak Khand Cannal Office, Front of District Court, Sadar, Pratapgarh, Uttar Pradesh-230001	Testing 25,960
267.	Dr. Rama Shankar	Executive Engineer Sharda Sahayak Khand 51 Pratapgarh 01, Sharda Sahayak Khand Cannal Office, Front of District Court, Sadar, Pratapgarh, Uttar Pradesh-230001	Testing 25,960
268.	Dr. Rama Shankar	Executive Engineer Sharda Sahayak Khand 51 Pratapgarh 01, Sharda Sahayak Khand Cannal Office, Front of District Court, Sadar, Pratapgarh, Uttar Pradesh-230001	Testing 25,960
269.	Dr. Vijay Kumar	MBEC-BUPL Joint Venture B-41, Nirala Nagar, Lucknow, Uttar Pradesh-226020	Testing 7,080

270.	Dr. Vijay Kumar	Adycon Concrete LLP S-2 S-3, 2 <sup>nd</sup> floor, Vinayak PUSP, 77 Elgin Road, Allahabad, Uttar Pradesh, 211001	Testing	26,550
271.	Dr. Rama Shankar	M/S Prakash Infraventure Private Limited B-3/14, Vinay Khand, Gomti Nagar, Lucknow, Uttar Pradesh-226010	Testing	3,54,000
272.	Prof. Paylson Samuel	Executive Engineer E/M Division, PWD Prayagraj	Testing	4,72,000
273.	Prof. R. P. Tiwari	M/s UP Rajkiya Nirman Nigam Ltd List. MC. Unit Vishweshwariya Bhawan, UPRNNL, Vibhuti khand Gomti Nagar, Lucknow, Uttar Pradesh- 226010	Testing	1,47,500
274.	Prof. R. P. Tiwari	M/s UP Rajkiya Nirman Nigam Ltd List. MC. Unit Vishweshwariya Bhawan, UPRNNL, Vibhuti khand Gomti Nagar, Lucknow, Lucknow, Uttar Pradesh-226010	Testing	1,47,500
275.	Dr. Varun Singh	M/s Chinmay Construction Ravi Bansal Office No. 705 ,706, 7 <sup>th</sup> Floor, Urbanac Business Park, A1A Vibhuti Khand, Gomti Nagar, Lucknow, Uttar Pradesh-226010	Testing	9,440
276.	Prof. R. C. Vaishya	Vastukalp Projects Private Limited, 520, First Floor, Saini Plaza, Choma Village, Gurgaon, Gurgaon, Haryana-122017	Design Consultancy	64,900
277.	Prof. A. K. Sachan	M/s Harsh Construction Rajesh Kumar Pandey SA 5/164 K 2, Ramreypur, Pahariya, Varanasi, Uttar Pradesh-221007	Design Consultancy	30,000
278.	Prof. R. C. Vaishya	Nagar Panchyat Iltefatganj Nil, Adhych Nagar, Iltefatganj, Iltefatganj, Ambedkar Nagar, Uttar Pradesh-224238	Testing	11,800
279.	Prof. Rakesh Kumar	Wire Consultancy F-70, Street No-3, Ground Floor, West Vinod Nagar, Laxmi Nagar, East Delhi, Delhi-110092	Design Consultancy	12,980
280.	Prof. Rakesh Kumar	Executive Engineer Construction Block Prayagraj-02 U.P. Housing and Development Council C-1,2,3, Indu Bihar Yojna, Pratapgarh	III Party Inspection	1,18,000
281.	Prof. R. P. Tiwari	M/s Baba Builders 218-D, Jayntipur, Sulim Sarai, Allahabad, Uttar Pradesh-211011	Testing	35,400
282.	Prof. R. C. Vaishya	Nextgen Infoworld Private Limited, E-317, Diamond Basement, Greater Kailash-Part 1, New Delhi, South Delhi, Delhi-110048	Testing	29,500
283.	Dr. V. P. Singh	Executive Engineer Obra Bandh Khand, Sonbhadra, U.P.	Testing cum consultancy	12,980
284.	Dr. V. P. Singh	Executive Engineer Belen Nahar Block, Prayagraj, U.P.	Testing	47,200
285.	Dr. V. P. Singh	Executive Engineer Belen Nehar Block Prayagraj	Design Consultancy	88,500
286.	Dr. Pramod Soni	Welspun Enterprises Limited Sayad Mazara Toll Plaza, Nh-73, Dehradun Road, Vill-Ugrahu Mustkam, Post-Kailashpur, Saharanpur, Uttar Pradesh-247001	Testing	1,98,240



287.	Prof. R. P. Tiwari	JMC Projects (India) Limited Plot No.139, 208, 209, 210, AT-Mahuli, Po-Paliguda, PS-Baipariguda, Koraput, Odisha-764083	Design Consultancy	17,70,000
288.	Dr. Vijay Kumar	Adycon Concrete LLP S-2 S-3, 2 <sup>nd</sup> floor, Vinayak Pump, 77 Elgin Road, Allahabad, Uttar Pradesh-211001	Testing	59,000
289.	Dr. Vijay Kumar	M/s JPR Balaji Infra Private Limited Khasra No. M 31, Near R K Public School, Sector 66 Mamura Noida, Gautam Buddha Nagar, Uttar Pradesh, 201301	Testing	74,930
290.	Prof. Rakesh Kumar	M/s U.P. Project Corporation Ltd., Left Bank Gomti barrage, Gomti Nagar, Lucknow, Uttar Pradesh-226001	III Party Inspection	1,18,000
291.	Prof. Rakesh Kumar	अधिकाषी अभियंता यू. पी. आर. एन. एन. यस. यस. निर्माण प्रखंड, बरेली-प्रथम, डा. पी. के गंगवार, हारनंगला सब्जी मंडी, निकट गंगा ज्योति आई हास्पिटल) बीसलपुर रोड, बरेली	III Party Inspection	1,18,000
292.	Prof. R. P. Tiwari	M/s U.P. Project Corporation Ltd. Left Bank Gomti barrage, Gomti Nagar, Lucknow, Uttar Pradesh-226001	III Party Inspection	2,36,000
293.	Dr. Varun Singh	Executive Engineer Provincial Division Lok Nirman Vibhag 26, Kasturba Gandhi Marg, Allahabad, Allahabad, Uttar Pradesh-211002	Design Consultancy	6,49,000
294.	Dr. V. P. Singh	Sant Nirankari Mandal Admin Block, Nirankari Complex, Sant Nirankari Colony, North West Delhi, Delhi-110009	Testing cum consultancy	1,25,080
295.	Dr. Anupam Rawat	M/s Uttar Pradesh Power Transmission Corporation Shakti Bhawan, 14-A, Ashok Marg, Ashok Marg, Lucknow, Uttar Pradesh	III Party Inspection	76,700
296.	Prof. Rakesh Kumar	M/s UP Rajkiya Nirman Nigam Ltd List. Mc. Unit Vishweshwaraiya Bhawan, UPRNNL, Vibhuti khand Gomti Nagar, Lucknow, Uttar Pradesh-226010	III Party Inspection	1,18,000
297.	Prof. Rakesh Kumar	M/S U.P. Project Corporation Ltd. Left Bank Gomti barrage, Gomti Nagar, Lucknow, Uttar Pradesh-226001	III Party Inspection	1,18,000
298.	Dr. Varun Singh	ISGEC Heavy Engineering Limited, H. No. 1/25, Vivekanand Marg, North S. K. Puri, Patna, Patna, Bihar-800013	Testing	5,900
299.	Prof. L. K. Mishra	Design Horizons Lokesh Kumar Sharma C-85, Freedom Fighter Enclave, Ignou Road, Neb Sarai, Central Delhi, Delhi-110068	Design Consultancy	1,18,000
300.	Prof. A. K. Sachan	M/s Aniruddha Kumar Gupta, Shashtri Nagar, Banad Road, Atarra, Banda, Uttar Pradesh	Design Consultancy	16,000
301.	Dr. R. C. Vaishya	The Executive Officer Nagar Palika Parishad Tanda Distt. Ambedkar Nagar	Testing	47,200
302.	Dr. Kumar Venkatesh	Postal Civil Division Allahabad GPO, HEAD Post Office, Civil Line, Allahabad, Prayagraj, Uttar Pradesh-211001	Design Consultancy	2,36,000



303.	Prof. Rakesh Kumar	Project Manager Construction and Design Services Unit-44, 2.14 Kosi Parikrama Marg, Near D. M. House, Civil Line, Ayodhya,	III Party Inspection	1,77,000
304.	Prof. R. P. Tiwari	M/s Friends Earth Movers Mukul JAIN N 13, Lawyers, Colony, Agra, Uttar Pradesh-282005	Design Consultancy	1,06,200
305.	Dr. Ramashankar	JWIL Infra Limited Sadar Bazart, Karvi, Chitrakoot, Uttar Pradesh-210209	Testing	23,600
306.	Prof. R. P. Tiwari	Vinayakkripa Homebuild LLP 265/316, Old Katra, Allahabad, Prayagraj, Uttar Pradesh	III Party Inspection	1,18,000
307.	Dr. P. R. Pal	Sri Arvind Gupta, 169 Pipalgaon, Prayagraj	Testing	39,530
308.	Dr. Ramashankar	M/s Sundigo Solar Solution Private Limited, CP-36, Sundigo Solar Solutions, Viraj Khand, Gomti Nagar, Lucknow, Uttar Pradesh-226010	Testing	9,440
309.	Dr. Kumar Venkatesh	Omaxe Limited Khasra No-433, Village-Salarpur, Bhangel, Noida, Gautam Buddha Nagar, Uttar Pradesh-201301	Testing	2,65,500
310.	Prof. R. P. Tiwari	Construction and Design Services, Uttar Pradesh Jal Nigam TC-38, V Vibhooti Khand, Gomtinagar, Lucknow, Uttar Pradesh	Testing	82,600
311.	Prof. R. P. Tiwari	Construction and Design Services, Uttar Pradesh Jal Nigam TC-38, V Vibhooti Khand, Gomtinagar, Lucknow, Uttar Pradesh-226010	Testing	2,36,000
312.	Dr. Kumar Venkatesh	DIVYA Construction Vikash Kumar Singh 162, Post Office Road Waidhan, Post Office Road Waidhan, Singrauli, Madhya Pradesh	Testing	59,000
313.	Dr. Shalinee Shukla	Shri B. C. Pradhan Director (Technical) NRRDA, New Delhi	Design Consultancy	4,45,562
314.	Dr. Ramashankar	M/S UP Rajkiya Nirman Nigam Ltd List. Mc. Unit, Uttar Pradesh Rajkiya Nirman Nigam Limited Vishweshwaraiya Bhawan, UPRNNL, Vibhuti Khand Gomti Nagar, Lucknow, Lucknow, Uttar Pradesh-226010	III Party Inspection	1,18,000
315.	Dr. Ramashankar	M/s UP Rajkiya Nirman Nigam Ltd List. Mc. Unit, Uttar Pradesh Rajkiya Nirman Nigam Limited Vishweshwaraiya Bhawan, UPRNNL, Vibhuti Khand Gomti Nagar, Lucknow, Lucknow, Uttar Pradesh-226010	Testing	1,09,150
316.	Dr. V. P. Singh	M/s Kuber Enterprises Asidapur, Infront of C.H.C, Gauriganj,, Amethi, Amethi, Uttar Pradesh, 227409	Testing	59,000
317.	Dr. V. P. Singh	Aditya Associates Pratibha Singh Dum Duma, Pratibha Singh, Steel Factory Road, Chunar, Mirzapur, Uttar Pradesh-231304	Testing	23,600
318.	Dr. V. P. Singh	KE Engineers Private Limited Katra Lalganj, Gauriganj, Amethi, Amethi, Uttar Pradesh	Testing	5,900
319.	Dr. Ramashankar	Myriad Studio Architects Shubham Yadav 315 A, St Peter Church, Stanley Road Kamala Nagar, Allahabad, Prayagraj, Uttar Pradesh	Design Consultancy	1,18,000
320.	Prof. R. P. Tiwari	M/s Baba Builders 218-D, Jayntipur, Sulim Sarai, Allahabad, Prayagraj, Uttar Pradesh	Testing	1,06,200

321.	Dr. Rakesh Kumar	अधिशायी अभियंता यू. पी. कंस्ट्रक्शन एंड इंफ्रास्ट्रक्चर डेवलपमेंट कारपोरेशन लि. 154, तिलहर हाउस, यस. यस. पी. आफिस के सामने वाली गली, सिविल लाइन्स, बरेली	III Party Inspection	1,18,000
322.	Dr. N. R. Rawal	M/s NCC Limited 183, Sector-C, Pocket-2, Sushant Golf City, Lucknow, Uttar Pradesh	Design Consultancy	11,80,000
323.	Prof. R. C. Vaishya	Nextgen Infoworld Private Limited, E-317, Diamond Basement, Greater Kailash-Part 1, New Delhi, South Delhi, Delhi-110048	Testing	29,500
324.	Prof. R. C. Vaishya	Nextgen Infoworld Private Limited, E-317, Diamond Basement, Greater Kailash-Part 1, New Delhi, South Delhi, Delhi-110048	Testing	23,600
325.	Dr. Anupam Rawat	M/s Allahabad Development Authority, Indira Bhawan, 78 <sup>th</sup> Floor, Chandrasekhar Azad Market, Sardar Patel Marg, Civil Lines, Prayagraj, Uttar Pradesh-211001	Design Consultancy	1,15,640
326.	Dr. Rama Shankar	M/s U.P. Project Corporation Ltd. UP Project Corporation LTD, Left Bank Gomti barrage, Gomti Nagar, Lucknow, Uttar Pradesh-226001	Testing	5,900
327.	Dr. Rama Shankar	M/s U.P. Project Corporation LTD. UP Project Corporation LTD, Left Bank Gomti barrage, Gomti Nagar, Lucknow, Uttar Pradesh-226001	Testing	5,900
328.	Dr. Rama Shankar	P. P. Pandey Infrastructure PVT. LTD., 12/613, Indira Nagar, Lucknow, Lucknow, Uttar Pradesh-226016	Testing	1,12,100
329.	Dr. Rama Shankar	M/S Ram Deen Yadav Bhemaaura, Shiv Din Ka Purwa, Lalganj, Pratapgarh, Uttar Pradesh	Testing	6,490
330.	Prof. R. P. Tiwari	Renaissance Archconsultant Private Limited E-611b, E Block, Basement, Grater Kailash- 2, Delhi, South Delhi, Delhi, 110048	Design Consultancy	1,18,000
331.	Dr. Kumar Venkatesh	M/s R. S. Constructions I - 635, Govindpuram, Govindpuram, Ghaziabad, Uttar Pradesh	Design Consultancy	82,600
332.	Dr. Kumar Venkatesh	M/s S.V.N. Builders Santosh, Shop No. - 44, Hapur Road, Super Market Anaj Mandi, Ghaziabad, Uttar Pradesh, 201013	Design Consultancy	82,600
333.	Dr. V. P. Singh	Project Manager U. P. Project Corporation Ltd. Unit-13, Banda, Uttar Pradesh	Testing	35,400
334.	Dr. Rakesh Kumar	यू. पी. आर. एन. एन. यस. यस., प्रखण्ड - मिर्जापुर, चोधरी भवन रीवा रोड, बधुआ, मिर्जापुर -231001	III Party Inspection	1,18,000
335.	Dr. Rakesh Kumar	अधिशायी अभियंता निर्माण खंड प्रयागराज -02, उ. प्र. आवास एवं विकास परिषद, स-1,2,3, इंदु बिहार योजना, प्रतापगढ़-230001	III Party Inspection	78,470
336.	Dr. Anupam Rawat	M/S Project Manager C&D.S Up Jal Nigam Uttar Pradesh Jal Nigam 1274/7, Avas Vikas Colony, Sikandra, Agra, Uttar Pradesh	Design Consultancy	59,000

337.	Dr. Rama Shankar	PDS Infrastructure Sudhakar Pandey 51, Pahari Aamad, Arail Jari Bazar, Prayagraj, Prayagraj, Uttar Pradesh-212106	Testing	7,080
338.	Dr. Rakesh Kumar	अधिशषी अभियंता यू. पी. आर. एन. एन. यस. यस., प्रखण्ड -मिर्जापुर, चौधरी भवन रीवा रोड, बधुआ, मिर्जापुर-231001	III Party Inspection	87,910
339.	Dr. Vijay Kumar	Dy. Chief Project Manager/Engg.DECCIL/ PRY (East), 2 <sup>nd</sup> Floor, DFCCIL Operation Control Centre Subedarganj, Prayagraj	Testing	13,452
340.	Dr. Varun Singh	M/s JPR Balaji Infra Private Limited Khasra No. M 31, near R K Public School, Sector 66 Mamura, Noida, Gautam Buddha Nagar, Uttar Pradesh-201301	Testing	85,550
341.	Dr. Vijay Kumar	M/s D. D. Ahuja and Brothers 120/500-B, Lajpat Nagar, Kanpur	Testing	5,900
<b>Total</b>				<b>5,88,60,564</b>

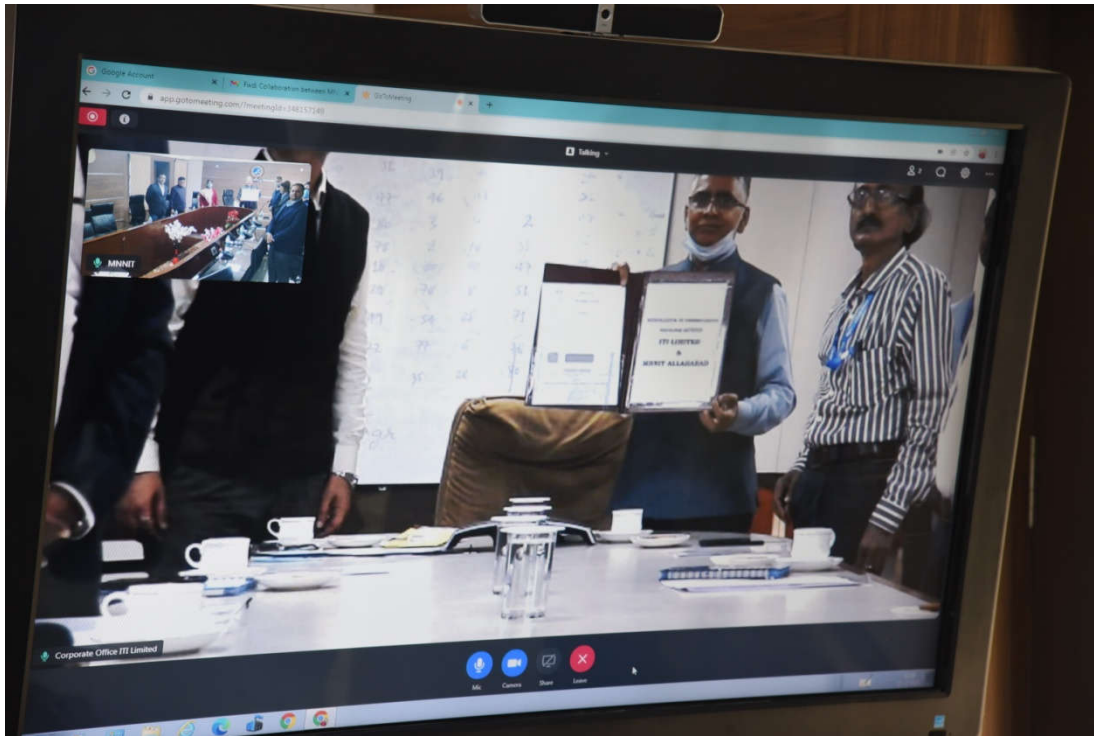


Signing of MoU between MNNIT Allahabad, Prayagraj and Wyton Pharmaceuticals & Agrotech Pvt. Ltd. Lucknow (25.11.2021)



Signing of MoU between MNNIT Allahabad, Prayagraj and Prayagraj Power Generation Company Ltd. (Tahsil-Bara) (03.12.2021)





Signing of MoU between MNNIT Allahabad, Prayagraj with ITI Delhi (21.12.2021)



Plantation of Tree by Prof. Rajeev Tripathi, Director (15.08.2021)





Unfurling of the Flag by Prof. Rajveev Tripathi on the occasion of Republic Day



Unfurling of the Flag by Prof. Rajveev Tripathi on the occasion of Independence Day



Celebration of Birth Anniversary of Mahatma Gandhi and Shri Lal Bahadur Shastri on 02 October 2021



Constitution Day Celebration on 26<sup>th</sup> November 2021





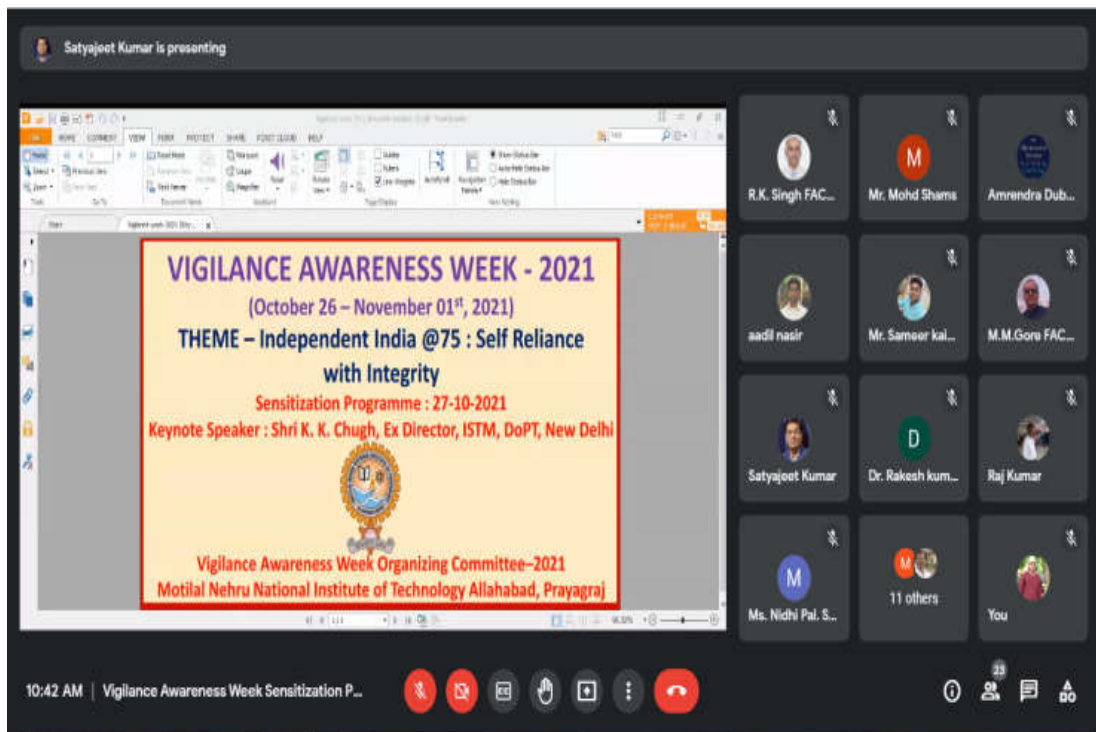
Inauguration of Basket Ball and Lawn Tennis Court (16.01.2022)



Seminar on Emerging Trends in Biotechnology on 10-12 March, 2022 organized by Department of Biotechnology



Inauguration of Maa Saraswati Photo in Academic Building (07.01.2022)



Vigilance Awareness week 2021 (26<sup>th</sup> October to 01<sup>st</sup> November 2021)





Celebration of International Day of Yoga (21.06.2021)

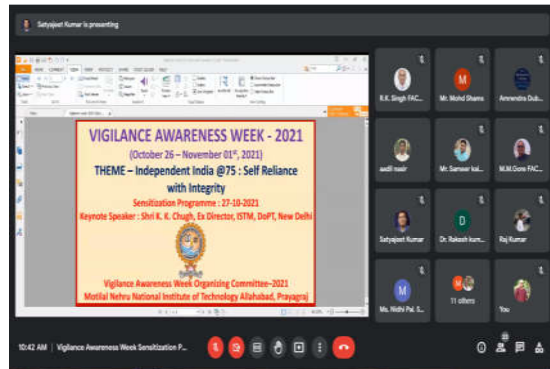


Swachhata Pakhwada Organized in the Institute (October-2021)

# **Celebration of National Events During** **2021-22**



Celebration of Constitution Day on 26<sup>th</sup> November 2021



Vigilance Awareness week 2021 (26<sup>th</sup> October to 01<sup>st</sup> November 2021)



International Day of Yoga on 21<sup>st</sup> June 2021



Swachhata Pakhwada (October-2021)



World No Tobacco Day on 31<sup>st</sup> May 2021



Celebration of Gandhi Jayanti 2021 on 02<sup>nd</sup> October 2021



## Different activities during Culrav-2021

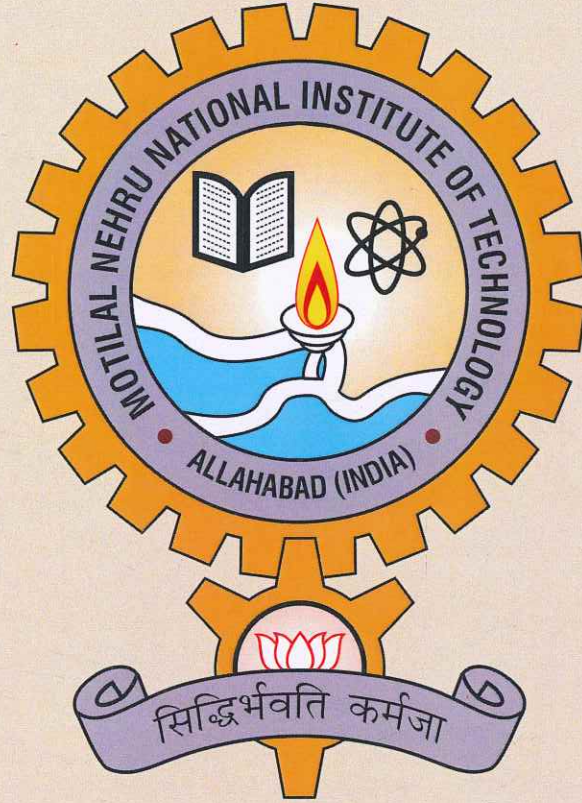


*Culrav-2021*

## स्वर्णिम विजय वर्ष (भारत-पाक युद्ध 1971)







मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद

प्रयागराज-211 004

भारत

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD

Prayagraj - 211 004

India

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