



मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद
प्रयागराज -211004 [भारत]

Motilal Nehru National Institute of Technology Allahabad
Prayagraj-211004 [India]

Website: <http://www.mnnit.ac.in>

Minutes of the Sixty-eighth [68th] meeting of the Finance Committee held on August 10, 2023 at 03:30 p.m. through online mode [on Google Meet] as well as at Conference Room, Executive Development Centre, MNNIT Allahabad.

Following members of the Finance Committee attended the meeting -

1. **Prof. Rama Shanker Verma** **Chairman**
Director
Motilal Nehru National Institute of Technology Allahabad,
Prayagraj-211004
2. **Shri Anil Kumar** **Member**
Director (Finance)
Department of Higher Education
Ministry of Education, Government of India
Shastri Bhawan, New Delhi - 110 115
[Nominee of AS & FA, Ministry of Education, GoI]
[attended online]
3. **Mr. Pawan Kumar** **Member**
Under Secretary (NIT-II),
Department of Higher Education
Ministry of Education (Shiksha Mantralaya)
Government of India,
Shastri Bhawan,
New Delhi -110 115
[Nominee of Joint Secretary (NITs), Ministry of Education, GoI]
[Attended Online]
4. **Prof. Neeraj Misra** **Member**
Professor, Department of Mathematics & Statistics,
Indian Institute of Technology, Kanpur,
Kanpur 208 016.
[Nominee of Director, IIT Kanpur]

5. **Prof. Ajai Kumar Singh**

Member

Professor, Department of Civil Engineering,
Motilal Nehru National Institute of Technology Allahabad,
Prayagraj – 211004.

6. **Dr. Ramesh Pandey**

Member Secretary

Registrar,
Motilal Nehru National Institute of Technology Allahabad,
Prayagraj – 211004.

The Chairman extended a warm welcome to the members and thanked them for taking their time out to attend the meeting.

The Finance Committee deliberated on the agenda items, and agenda item-wise proceedings are as under:

Item No. 68.01 : To confirm the minutes of the Sixty-seventh [67th] meeting of the Finance Committee held on 31.03.2023.

Resolution : The Finance Committee considered the Institute proposal for confirmation of the minutes of its Sixty-seventh [67th] meeting held on 31.03.2023, and noted that no comments have been received from any of the members.

The Finance Committee, considering the above, resolved to confirm the minutes of its Sixty-seventh [67th] meeting held on 31.03.2023.

Major points of previous two meetings in Nutshell for ready reference:

- *The Finance Committee considered the request of SC/ST/PH category students of Ph.D. programme for extension of tuition fee waiver and referred the matter to Ministry of Education for placing the same before the NIT Council.*
- *The Finance Committee considered the matter of demand of extra payment of Rs. 3,35,99,963.40 raised by M/s RITES Ltd. over and above the Administrative Approval and Expenditure Sanction of Rs. 34,77,75,572.00; after completion of infrastructure project of Girls Hostel at MNNIT Allahabad. The Finance Committee resolved that the demand of extra payment should be checked thoroughly by the Chartered Accountant of the Institute and legal advice must be obtained from the advocate of the Institute before proceeding in the matter.*




- *The Finance Committee resolved to accept the Institute proposal for procurement of FE-SEM with EDS for Centre for Interdisciplinary Research (CIR) with an estimated cost of Rs. 5.00 Crores and recommended the same to the Board of Governors for approval.*
- *The Finance Committee resolved to accept the proposal for procurement of 1000 Desktop(s) with an estimated cost of Rs. 13.50 Crores and recommended the same to the Board of Governors for approval.*
- *The Finance Committee resolved to accept the recommendations of Building & Works Committee for engaging NBCC (INDIA) Ltd. (CPSU) as a Project Management Consultant [PMC] at MNNIT Allahabad for executing the Civil/ Electrical Infrastructure Work (Repair & Original Work) in the Institute and recommended the same to the Board of Governors for approval.*
- *The Finance Committee resolved to accept the Ministry of Education letter on the subject "Applicability of Payment of Gratuity Act 1972 to educational institutions under the Ministry of Education" and recommended the same to the Board of Governors for approval and implementation in the Institute with immediate effect.*
- *The Finance Committee resolved to accept the Institute proposal to increase the financial power of the Director for procurement of Equipment, general Utility Items, Furniture, Software etc. under OH-35 upto Rs. 5.00 Crores and recommended the same to the Board of Governors for approval.*

Item No. 68.02 : To report the action taken on the decisions taken in the Sixty-seventh [67th] meeting of the Finance Committee held on 31.03.2023.

Resolution : The Finance Committee perused the action taken by the Institute on the decisions taken in its Sixty-seventh [67th] meeting held on 31.03.2023, as circulated along with agenda papers.

The Finance Committee resolved that action taken by the Institute on the decisions taken in its Sixty-seventh [67th] meeting be noted, and taken on record.

Item No. 68.03 : [A] To note the annual allocation of funds to the Institute communicated by the Ministry of Education vide letter F. No. 36-1/2023-TS.III, dated 04.05.2023 on the subject "Tentative Annual Allocation for the Financial


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Year 2023 - 2024 in respect of Motilal National Institute of Technology (MNNIT), Allahabad – regarding”.

[B] To note the Memorandum of Understanding [MoU] submitted by the Institute for execution between the Institute and the Ministry of Education for the Financial Year 2023-24.

Resolution : [A] The Finance Committee considered the annual allocation of funds to the Institute communicated by the Ministry of Education vide letter F. No. 36-1/2023-TS.III, dated 04.05.2023 on the subject “*Tentative Annual Allocation for the Financial Year 2023 - 2024 in respect of Motilal National Institute of Technology (MNNIT), Allahabad – regarding”.*

The Finance Committee noted that the annual allocation for the Financial Year 2023-24 in respect of the Institute is as under:

Object Head (OH)	OH-31	OH-35	OH-36	Total
Annual Allocation	₹85.84 Cr.	₹22 Cr.	₹82.83 Cr.	₹190.67 Cr.

The Finance Committee resolved to note the same.

[B] The Finance Committee considered the Memorandum of Understanding [MoU] submitted by the Institute for execution of the same between the Institute and the Ministry of Education for the Financial Year 2023-24.

The Finance Committee resolved to note the same.

Item No. 68.04 : To note and ratify the approval of the Finance Committee / Board of Governors on the Annual Accounts and Balance Sheet for the Financial Year 2022-23, accorded through circulation.

Resolution : The Finance Committee was apprised of the following:

1. Section 22(2) of the NIT Act-2007, provides that - “The accounts of every Institute shall be audited by the Comptroller and Auditor-General of India and any expenditure incurred by him in connection with such audit shall be payable by the Institute to the Comptroller and Auditor – General of India.”

Accordingly, audit of the accounts of the Institute is carried out by the Accountant General, UP, Prayagraj, every year.

2. The Annual Accounts and Balance Sheet for the Financial Year 2022-23 was required to be submitted to the Accountant General, UP, (Office of the Comptroller & Auditor General of India) to start the SAR Audit.
3. The Institute has hired the services of a Chartered Accountant, M/s R. C Agrawal & Co. to prepare Balance Sheet, Receipt & Payment Account and Income & Expenditure Account for the FY 2022-23. The Annual Accounts and Balance Sheet of the Institute for the FY 2022-23 was prepared as per the format prescribed by the Ministry of Education, GOI.
4. Considering the importance and urgency in the matter, the Institute circulated the Annual Accounts and Balance Sheet of the Institute for the Financial Year 2022-23 to the members of the Finance Committee and Board of Governors for approval through circulation.

The members of Finance Committee and Board of Governors were also requested to give their comments/ acceptance by 17.07.2023.

5. Observations have been received from Prof. Neeraj Mishra, IIT Kanpur and Ms. Janaki Viswanathan, Under Secretary (IFD), MoE, Gol. The Institute vide letter No. 189/Accounts/2023 dated 24.07.2023 has sent the compliance report on the observations of the Integrated Finance Division, Ministry of Education.

Accordingly, the Annual Accounts and Balance Sheet of the Institute was sent to the A.G.U.P. for commencement of Audit.

The Institute response on the observations of the Integrated Finance Division, Ministry of Education were discussed and noted by the Board of Governors during the meeting.

Further, the Board of Governors, advised the following to the Institute:

- (i) Interest earned on the outside TSA grant shown in Schedule 3 for the last financial year needs to be refunded to Ministry of Education.
- (ii) Unutilized IRG of the Institute shown in Schedule 3 as liability is actually the fund earmarked for transfer from Fee account to the Corpus account and hence it is not a liability and the entry to be done in the form of Assets/transfer of fund from Fee account to Corpus account.
- (iii) The Institute is advised to review the feasibility of running the MBA program as

the revenue generation is not appreciable hence feasibility of the programme needs to be justified.

- (iv) Hostel Fee (schedule 13): Various fees charged under the Head hostel room rent (at schedule 13 on page 58) consist of room rent, electricity charges, Hostel related maintenance charges etc.
- (v) Corpus fund related accounts shown in schedule 1 should be consolidated/earmarked under one single account only from the next financial year onwards.

The Board of Governors confirmed and ratified the approval accorded through circulation by the Finance Committee / Board of Governors on the Annual Accounts and Balance Sheet for the Financial Year 2022-23 with above remarks.

Item No. 68.05 : To consider the following letters received from the Ministry of Education for adoption/ implementation in the Institute:

- [A] Email dated 12.04.2023 thereby enclosing letter F. No. 36-1/2022-TS.III dated 11.04.2023 on the subject "*Restriction/ Amendment/ recommendation to Rules of GFR 2017 – reg.*"
- [B] Letter F.No.33-1/2022 -TS.III (Pt.1) dated 29.05.2023 on the subject "*Amendment in General Financial Rules, 2017-Rule 171(i) Performance Security - reg.*" thereby enclosing OM F. No. 23011/02/2023-IF.I dated 24.05.2023, OM No. F.7/10/2021-PPD dated 23.02.2023 & Order No. F.7/10/2021-PPD(1) dated 23.02.2023 and MoE letter No. 36-1/2022-TS.III,dated 11.04.2023.
- [C] Letter F No. DST/PCPM/Z-06/2022 dated 26.06.2023 from the Ministry of Science & Technology, on the subject "*Revision of emoluments and guidelines on service conditions for Research Personnel engaged in R&D programme of the Central Government Departments/ Agencies*".
- [A] The Finance Committee considered the Ministry of Education email dated 12.04.2023 thereby enclosing letter F. No. 36-1/2022-TS.III dated 11.04.2023 on the subject "*Restriction/ Amendment/ recommendation to Rules of GFR 2017 – reg.*"



In consideration of the above, the Finance Committee resolved to note the Ministry of Education letter F. No. 36-1/2022-TS.III dated 11.04.2023 on the subject "*Restriction/ Amendment/ recommendation to Rules of GFR 2017 – reg.*" and recommended the same to the Board of Governors to note and take on record.

- [B] The Finance Committee considered the Ministry of Education letter F.No.33-112022 -TS.III (Pt.1) dated 29.05.2023 on the subject "*Amendment in General Financial Rules, 2017-Rule 171(i) Performance Security - reg.*" thereby enclosing OM F.No. 23011/02/2023-IF.I dated 24.05.2023, OM No. F.7/10/2021-PPD dated 23.02.2023 & Order No. F.7/10/2021-PPD(1) dated 23.02.2023 and MoE letter No. 36-1/2022-TS.III,dated 11.04.2023.

In consideration of the above, the Finance Committee resolved to accept the Ministry of Education letter F.No.33-112022 -TS.III (Pt.1) dated 29.05.2023 on the subject "*Amendment in General Financial Rules, 2017-Rule 171(i) Performance Security - reg.*" and recommended the same to the Board of Governors for approval and implementation in the Institute with immediate effect.

- [C] The Finance Committee considered the letter F No. DST/PCPM/Z-06/2022 dated 26.06.2023 from the Ministry of Science & Technology, on the subject "Revision of emoluments and guidelines on service conditions for Research Personnel engaged in R&D programme of the Central Government Departments/ Agencies".

The Finance Committee was apprised by the members from the Ministry of Education that a separate notification from the Ministry of Education may be communicated to all Institutes under the Ministry of Education in this regard. The Institute is advised to wait for aforementioned notification from the Ministry of Education for implementation of the same.

Item No. 68.06 : To consider the recommendations of the Thirty-ninth [39th] meeting of Building & Works Committee held on 20.07.2023 on the followings proposals:

- [A] Construction of New Block for Academic Building in front of Central Library i/c internal electric installations, fans & firefighting system & lift at MNNIT Allahabad, Prayagraj.
- [B] Proposal of New Infrastructure Projects (Renovation/ maintenance works) in the Institute Campus.
- [C] To ratify the approval of Director, MNNIT Allahabad as the Chairman, BWC to allow E.E., CPWD to make the payment of Rs.16,93,048.00 to the Prayagraj Development Authority [PDA] as compounding fee for getting the Final N.O.C from the PDA for the revised built-up Building Plans of the newly constructed Boys Hostel.
- [D] To consider the proposal of Construction of Under Pass (Twin box) at railway line passing between Academic Campus & Hostel Campus at MNNIT Allahabad.
- [E] To apprise the BWC about the Payment of Rs.1,89,77,875.00 incurred by the CPWD (within the sanctioned amount of Rs.39,66,42,400.00) to the Prayagraj Development Authority (PDA) for NOC of Multi-Storied faculty Quarters (G+12) in the residential campus at MNNIT Allahabad, Prayagraj.
- [F] To Empanel the Architects for Conceptual planning / drawings / designing / interior decoration for renovation and maintenance works in the Institute Campus.
- [G] To Consider the payment of ₹14,90,333.00 demanded by Divisional Director, Social Forestry Division, Prayagraj for plantation of 1300 plants to issue NOC to cut the 130 no. of green/dry trees standing at the proposed site of the New Academic Block in the Academic Campus of the Institute.

Resolution : [A] The Finance Committee considered the recommendations of the Thirty-ninth [39th] meeting of the Building & Works Committee held on 20.07.2023 on the proposal for Construction of New Block for Academic Building in front of Central Library i/c internal electric installations, fans & firefighting system & lift at MNNIT Allahabad, Prayagraj.



The Finance Committee noted that the amount of Rs.36,32,94,100/- was sanctioned under EWS vide MoE letter No:2-11/2021-T.S.III dated 22/09/2021 for the construction of New Block for Academic Building (G+2) at MNNIT Allahabad. Subsequently, the Institute had issued AA&ES letter to E.E., CPWD on 07.10.2021 and released Rs.3,63,20,000/- (10% of AA&ES amount of Rs.36,32,94,100.00) vide letter no. CWM/New Academic Block/2021-22/497 dated 30.03.2022 to the CPWD for the subject work.

The Finance Committee also noted that the CPWD has incurred an expenditure of Rs. 44,56,355/- for the soil testing, 3D Drawings, preliminary architectural drawings, Jungle cutting ground survey, fire approval, pollution & PDA approval and Structural Design Work etc. for the subject work.

Further, in view of the inordinate delay incurred by the CPWD in completion of Institute infrastructure projects, the Institute appointed the NBCC (INDIA) Ltd. as Project Management Consultant [PMC] for Complete Planning, Design, Execution/ Construction of Buildings and its services for various buildings at MNNIT Allahabad, Prayagraj after due approval of the Finance Committee and the Board of Governors vide resolution nos. 66.06 and 71.14 [C] [iv] respectively.

Further, in view of the acute problem of infrastructure in the Institute including classrooms, faculty rooms, parking etc. the Building and Works Committee vide its resolution no. 39.04 recommended the Construction of New Block for Academic Building (G+6) (with basement) in front of Central Library i/c internal electric installations, fans & firefighting system & lift at MNNIT Allahabad, Prayagraj at an estimated cost of Rs.113.85 Crores submitted by the NBCC (INDIA) Ltd. The NBCC (INDIA) Ltd. conveyed that it would not prefer to use/adopt building plans prepared by the CPWD or any other agency as it is their professional endeavor to provide the best architectural planning to MNNIT Allahabad as per norms prescribed in National Building Code 2016.

Further, the Finance Committee was apprised by the Registrar that in the approved recommendations of 39.04 agenda item of the BWC meeting held on 20.07.2023, there was an inadvertent error. The service charge and GST was added again in the calculation table by the Engineering Section of the Institute though it was already taken into consideration by the NBCC (India) Ltd., PMC of the Institute, in its detailed estimate submitted to the Institute. The same recommendation of the BWC was incorporated in the 68.06 [A] agenda item of the Finance Committee meeting held on 10.08.2023. Hence, Finance Committee recommended that table of 68.06 [A] agenda item should be considered as given below:

Sl. No.	Head	Amount (Rs.)
A	Estimate amount recommended by the BWC for C/o New Block for Academic Building [G+6] (with basement)	113.85 Crores
B	Amount already sanctioned by the Ministry of Education under ESW	36,32,94,100/-
C	Recommended proposed additional amount for C/o New Block for Academic Building [G+6] (with basement) over the already sanctioned amount for C/o New Block for Academic Building [G+2] (without basement).	77.52 Crore [A-B]
D	Expenditure incurred by the CPWD	0.45 Crore
Total recommended additional amount proposed to get financed by the HEFA		77.97 Crore [C+D]

The Finance Committee noted that the approval of the above project under EWS was given in 2021 and now the Executing Agency, Scope of work and Project Estimates all have been changed and revised.

The Finance Committee advised the Institute to submit a fresh proposal to the Ministry of Education for consideration and approval under HEFA considering In-principle approval of the Finance Committee. The Institute was advised to wait for the execution of the project till the concurrence form the Ministry of Education is received for the aforementioned Construction of New Block for Academic Building.

The Finance Committee agreed In-principle and resolved to recommend



the amount of Rs. 77.97 Crore only for the construction of New Block for Academic Building.

[B] The Finance Committee considered the recommendations of the Thirty-ninth [39th] meeting of the Building & Works Committee held on 20.07.2023 on the proposal of New Infrastructure Projects (Renovation/ maintenance works) in the Institute Campus.

Further, the Finance Committee was apprised by the Registrar that in the approved recommendations of 39.05 agenda item of the BWC meeting held on 20.07.2023, there was an inadvertent error. The service charge and GST was added again in the calculation table by the Engineering Section of the Institute though it was already taken into consideration by the NBCC (India) Ltd., PMC of the Institute, in its detailed estimate submitted to the Institute. The same recommendation of the BWC was incorporated in the 68.06 [B] agenda item of the Finance Committee meeting held on 10.08.2023. Hence, Finance Committee recommended that table of 68.06 [B] agenda item should be considered as given below:

Sr. No.	Name of Project	Estimated Cost submitted by NBCC (INDIA) LTD. Ltd. (Rs.)	Recommended Head
[i]	Provision of lift for especially abled persons in the Administrative building in the Institute Campus.	49,95,262.50	OH-35
[ii]	Provision of Air conditioning System in GS [3 to 8] and GW [3 to12] and NLH [1 to 2] class rooms in the Academic Building at MNNIT Allahabad.	1,71,81,596.81	OH-35
[iii]	Renovation of staff Quarters and Internal wiring of staff Quarters in the Residential Campus.	18,11,50,039.02	OH-31
[iv]	Roof treatment of all the staff qtrs. & buildings in the Residential Campus.	4,11,27,903.78	OH-31
[v]	Repair of all affected roofs, and renovation & repair of SEW 1,7,8,9,10 class rooms at second floor in the Academic Building at MNNIT Allahabad, Prayagraj.	5,23,75,824.87	OH-31
[vi]	Supply and Installation of 02 nos. 630 KVA, 11 KV/440 Transformer with all accessories in the Academic.	1,89,19,508.45	OH-35
[A]	Total	31,57,50,135.43	
Total recommended amount		31,57,50,135.43 (Say Rs. 31.58 Crore)	

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The Finance Committee advised the Institute to execute the proposed works within the allocated budget of the Ministry of Education under OH-31.

The Finance Committee agreed In-principle and resolved to recommend the amount of Rs. 31,57,50,135.43 i.e approximately 31.58 Crore only for the Renovation/ Maintenance works in the Institute campus.

- [C] The Finance Committee considered the recommendations of the Thirty-ninth [39th] meeting of the Building & Works Committee held on 20.07.2023 to ratify the approval of Director, MNNIT Allahabad as the Chairman, BWC to allow E.E., CPWD to make the payment of Rs.16,93,048.00 to the Prayagraj Development Authority [PDA] as compounding fee for getting the Final N.O.C from the PDA for the revised built-up Building Plans of the newly constructed Boys Hostel.

The Finance Committee noted that it is a Statutory payment and needs to be considered in the preparation of the estimate itself instead of considering in the last phase of the project before the handover process, to avoid exercise of powers of the Chairperson, Board of Governors in emergent conditions.

The Finance Committee resolved to accept the approval of the Chairperson, Board of Governors.

- [D] The Finance Committee considered the recommendations of the Thirty-ninth [39th] meeting of the Building & Works Committee held on 20.07.2023 on the proposal of Construction of Under Pass (Twin box) at railway line passing between Academic Campus & Hostel Campus at MNNIT Allahabad.

The Finance Committee considering the importance and urgency of the proposed work has agreed In-Principle and advised the Institute to manage the funds for the proposed project either from HEFA or from the Institute IRG but not from OH-35.

The Finance Committee resolved to accept and recommend the same to the Board of Governors for approval.

- [E] The Finance Committee considered the recommendations of the Thirty-ninth [39th] meeting of the Building & Works Committee held on 20.07.2023 for the



Payment of Rs.1,89,77,875.00 incurred by the CPWD (within the sanctioned amount of Rs.39,66,42,400.00) to the Prayagraj Development Authority (PDA) for NOC of Multi-Storied faculty Quarters (G+12) in the residential campus at MNNIT Allahabad, Prayagraj.

The Finance Committee resolved to accept and recommend the same to the Board of Governors for approval.

- [F] The Finance Committee considered the recommendations of the Thirty-ninth [39th] meeting of the Building & Works Committee held on 20.07.2023 to Empanel the Architects for Conceptual planning / drawings / designing / interior decoration for renovation and maintenance works in the Institute Campus.

The Finance Committee advised the Institute to empanel the Architects as per rules and regulations of empanelment.

The Finance Committee resolved to accept and recommend the same to the Board of Governors for approval.

- [G] The Finance Committee considered the recommendations of the Thirty-ninth [39th] meeting of the Building & Works Committee held on 20.07.2023 to Consider the payment of ₹14,90,333.00 demanded by Divisional Director, Social Forestry Division, Prayagraj for plantation of 1300 plants to issue NOC to cut the 130 no. of green/dry trees standing at the proposed site of the New Academic Block in the Academic Campus of the Institute.

The Finance Committee resolved to accept and recommend the same to the Board of Governors for approval.

Item No. 68.07 : To consider the recommendation of the Seventy-seventh [77th] meeting of the Senate held on 02.07.2023 on the following agenda items:

- [A] To start the new programmes in the following Departments of the Institute as per NEP:
- [I] Department of Chemistry (M.Sc. in Applied Chemistry).
 - [II] Department of Physics (M.Sc. in Physics).
- [B] To consider the recommendation of the Committee relating to EAA course implementation under the Chairmanship Prof. Ravi Prakash

including the associated financial aspects.

[C] To consider the proposal for establishing the Centre for Sustainable Energy in the Institute as Centre of Excellence.

Resolution : [A] [I] The Finance Committee considered the recommendations of the Seventy-seventh [77th] meeting of the Senate held on 02.07.2023 on the proposal of starting a new PG course based on NEP-2020 in the Department of Chemistry as M.Sc. in Applied Chemistry.

The Finance Committee noted the following:

PG Course in Chemistry Department (M.Sc. in Applied Chemistry)			
Sl. No.	Particular	Requirements/ Tentative Budget	
		Quantity	Estimated Cost/ Expenditure/ Budget
1.	Number of Faculty required	Nil# at present	-
2.	Laboratories and Equipment required	Laboratories- 3, space created & transformation of Store Room to Laboratory under progress. Equipment- Nil# at present.	Through Recurring Grant= Rs. 35 Lakhs Through Non- Recurring Grant= Rs. 30 Lakhs
3.	Computers and Software required	Nil# at present.	
4.	Books and Journals required	Nil# at present.	
5.	Hostel Rooms required	As per the availability, hostel rooms may be provided	
6.	Class Rooms required	Nil# at present.	

- The Institute has proposed to start a new programme based on NEP-2020, named as **M.Sc. in Applied Chemistry**.
- Intake for the programmes shall be of 30 students.
- Requirements for smooth running of the programmes is at



ANNEXURE-I.

5. The current faculty profiles of the faculty members in the Department of Chemistry match with requirements of the proposed programme. Therefore, the existing faculty strength and the existing resources will be utilized for starting the proposed programme, during the initial phase.
6. Similar programmes are also being run in other IITs / NITs and thus there is high demand of students of such programmes. Students of the programmes are expected to get good placement in the market.
7. As per the Make in India policy of the Government of India, many Industries / Research organizations require skilled manpower in the area of proposed programme. The proposed programme will contribute towards fulfilling the manpower requirements of the Make in India policy of the Government of India.
8. The Ministry of Education letter D.O.F.No.33-3/2018-TS.III, dated 27.12.2019 provides that in order to rein the over expenditure owing to starting of new programmes by NITs without approval of Ministry of Education, the institutions need to seek prior approval of the Ministry of Education, before making any budgetary provisions for the same. The Ministry of Education has also directed that in order to seek prior approval of the Ministry, Institutions need to submit the detailed proposal, after the approval of the Finance Committee/ Board of Governors.

The Finance Committee noted that the Institute is expected to generate the annual revenue of ₹ 24.6 Lakhs from the proposed program.

Considering the above, the Finance Committee resolved to accept the proposal for starting a new PG course based on NEP-2020 in the Department of Chemistry as M.Sc. in Applied Chemistry and recommended the same to the Board of Governors for approval, for further submission to the Ministry of Education for approval.

[II] The Finance Committee considered the recommendations of the Seventy-seventh [77th] meeting of the Senate held on 02.07.2023 on the proposal of starting a new PG course based on NEP-2020 in the Department of Physics as M.Sc. in Physics.

The Finance Committee noted the following:

1. A brief of the proposed programme and requirements for smooth running of the programme:

PG Course in Physics Department (M.Sc. in Physics)			
Sl. No.	Particular	Requirements/ Tentative Budget	
		Quantity	Estimated Cost/ Expenditure/ Budget
1.	Number of Faculty required	07	As per rule
2.	Laboratories and Equipment required	3 Laboratories	₹55,00,000
3.	Computers and Software required	60 Computers, Matlab, Mathematica, Lab VIEW	₹60,00,000
4.	Books and Journals required	≥ 200 Books, Journals subscribed for Ph.D. will be utilized, No additional requirement for journals	₹2,00,000
5.	Hostel Rooms required	29 (Boys + Girls)	As per rule
6.	Class Rooms required	2	As per rule

2. The Institute has proposed to start a new programme based on NEP-2020, named as **M.Sc. in Physics**.
3. Intake for the programmes shall be of 30 students.
4. Requirements for smooth running of the programmes is at **ANNEXURE-II**.
5. The current faculty profiles of the faculty members in the Department of Chemistry match with requirements of the proposed programme. Therefore, the existing faculty strength and the existing resources will be utilized for starting the proposed

- programme, during the initial phase.
6. Similar programmes are also being run in other IITs / NITs and thus there is high demand of students of such programmes. Students of the programmes are expected to get good placement in the market.
 7. As per the Make in India policy of the Government of India, many Industries / Research organizations require skilled manpower in the area of proposed programme. The proposed programme will contribute towards fulfilling the manpower requirement of the Make in India policy of the Government of India.
 8. The Ministry of Education letter D.O.F.No.33-3/2018-TS.III, dated 27.12.2019 provides that in order to rein the over expenditure owing to starting of new programmes by NITs without approval of Ministry of Education, the institutions need to seek prior approval of the Ministry of Education, before making any budgetary provisions for the same. The Ministry of Education has also directed that in order to seek prior approval of the Ministry, Institutions need to submit the detailed proposal, after the approval of the Finance Committee/ Board of Governors.

The Finance Committee noted that the Institute is expected to generate the annual revenue of ₹ 24.6 Lakhs from the proposed program.

Considering the above, the Finance Committee resolved to accept the proposal for starting a new PG course based on NEP-2020 in the Department of Physics as M.Sc. in Physics and recommended the same to the Board of Governors for approval, for further submission to the Ministry of Education for approval.

- [B]** The Finance Committee considered the recommendation of the Seventy-seventh [77th] meeting of the Senate held on 02.07.2023 on the proposal to consider the recommendation of the Committee relating to EAA course implementation under the Chairmanship Prof. Ravi Prakash including the associated financial aspects.

The Finance Committee noted the following:

1. Financial aspects associated to EAA course implementation, are as under:

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Courses	Department coordinating the course	Total estimated expenditure
1. Yoga and Ayush for Human Well Being (EAA-B course) 2. Health, Personal Hygiene and Balanced Diet (EAA-B course)	SMS	Rs. 1,36,800 per semester
1. Indian Traditional Music (Vocal) (EAA-B course) 2. Indian Traditional music (Instrumental) (EAA-B course) 3. National Service Scheme (EAA-B course) 4. National Cadet Corps (EAA-B course)	HSS	Rs. 2,91,200 per semester + Rs. 1,00,000 (one time) for non-recurring expenditure on Computer/ Projector etc. for NSS Rural visit + Rs. 65,000 per semester for expenses for conducting rural visit. (NSS)
Social Service by Imparting Science / Technology Education to surrounding communities (in hybrid mode) (EAA-A course)	HSS	Rs. 1,00,000 (one time) for non-recurring expenditure on Computer/ Projector etc. Rs. 5,00,000 per semester for field visits.
Faculty engagement for Non-native/ Foreign Language (EAA-A course)	SMS	Approx. Rs. 3,00,000 per semester for at least 3 courses
Games/ Sports/ Athletics courses	SAC	Three sports courses Approx. Rs. 3,00,000

	per semester
Total	Non-Recurring Expenditure Rs. 2,00,000 (one time) Recurring Expenditure Rs. 15,93,000 per semester Proposed cost : approximately Rs. 1200/- per student per semester.

2. Institute will collect additional ₹1200.00 per student per Semester for providing necessary academic and infrastructure facilities for efficient delivery of EAA Courses.

The Finance Committee also advised the Institute to prepare the guidelines for generation of IRG for such programmes in near future in holistic manner.

The Finance Committee resolved to accept the proposal for including the associated financial aspects and recommended the same to the Board of Governors for approval, for further submission to the Ministry of Education for approval.

[C] The Finance Committee considered the recommendation of the Seventy-seventh [77th] meeting of the Senate held on 02.07.2023 on the proposal for establishing the Centre for Sustainable Energy in the Institute as Centre of Excellence.

The Finance Committee noted the summary of fund required for establishing the Centre for Sustainable Energy in the Institute as Centre of Excellence as under:

Item		Budget (in Rupees)
A.	Salaries/ wages* (per annum)	19,20,000.00
B.	Renewable Energy Laboratory	76,65,000.00
C.	Computational Research Laboratory	53,50,000.00
Grand Total (A+B+C)		1,49,35,000.00

Bandy
17/08/23

The Finance Committee advised the Institute to prepare Guidelines / SoP for operating such Centers in the Institute and the modalities be decided for generation of IRG.

Considering the above, the Finance Committee resolved to accept the proposal for establishing the Centre for Sustainable Energy in the Institute as Centre of Excellence and recommended the same to the Board of Governors for approval, for further submission to the Ministry of Education for approval.

Item No. 68.08 : To consider the Institute proposal to offer financial support upto ₹5.00 Lakhs to the newly joined (joining the Institute in the year 2023 and thereafter) faculty members of the Institute for pursuing projects and establishing their state of the art and research facility from the funds generated under Consultancy Head of the Dean (R&C).

Resolution : The Finance Committee considered the Institute proposal to offer financial support upto ₹5.00 Lakhs to the newly joined faculty members (joining the Institute in the year 2023 and thereafter) for pursuing projects and establishing their state of the art research facility from the funds generated under Consultancy Head of the Dean (R&C).

The Finance Committee noted the details of the proposal as under:

- (i) The scheme invites research proposals upto ₹5,00,000/- (Rupees Five lakhs only) from the faculty members who have joined the institute in the year 2023 and thereafter.
- (ii) The proposals should be in line with their research expertise as well as research priorities of their respective departments. The proposals should also demonstrate the feasibility and potential impact of the proposed research.
- (iii) The duration of the project is one year, extendable upto two years based on satisfactory progress.
- (iv) The project funds can be utilized for procuring equipment, computers, consumables, contingency.
- (v) The project investigators are expected to submit periodic reports every six months and a final report at the end of the project.

Considering the above, the Finance Committee resolved to accept the Institute proposal to offer financial support upto ₹5.00 Lakhs to the newly joined faculty



members (joining the Institute in the year 2023 and thereafter) for pursuing projects and establishing their state of the art and research facility from the funds generated under Consultancy Head of the Dean (R&C) and recommended the same to the Board of Governors for consideration and approval.

The meeting ended with thanks to the Chair.


17/08/23

[Ramesh Pandey]
Registrar/ Member Secretary

Approved


27/8/23

[Rama Shankar Verma]
Chairman, Finance Committee &
Director, MNNIT Allahabad



ANNEXURE-I

28/7/23

25 PM

रसायन विभाग

मोतीलाल नेहरु राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद, प्रयागराज-211004

Department of Chemistry

Motilal Nehru National Institute of Technology Allahabad, Prayagraj -211004

Letter No.: /06/CHEM/2023-24

Date: 28/07/2023

Registrar


MNNITA, Prayagraj

Your Reference : 356/Acad. /Senate/2023 Dated: July 25, 2023
Our Reference : 104/CHEM/2023-24 Dated: 27/07/2023

Subject : Approved M.Sc. in Applied Chemistry programme with details of financial, faculty requirement & Course Curriculum in line with NEP 2020

For consideration of the finance committee & BoG on the above subject matter is prepared in line with NEP 2020.

Please do needful at your end.


(P. R. Dutta)
HoD, Chemistry



रसायन विभाग
मोतीलाल नेहरु राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद, प्रयागराज-211004

Department of Chemistry
Motilal Nehru National Institute of Technology Allahabad, Prayagraj -211004

Letter No.: 104/CHEM/2023-24

Date: 27/07/2023

The Registrar
MNNITA, Prayagraj

Through: Dean (Academic)

Reference No. 01 : M.Sc. in Applied Chemistry programme approved by Resolution no. 63.14 of 63rd meeting of Senate held on 15.04.2019

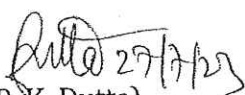
Reference No. 02 : 77th meeting of Senate held on 02.07.2023 vide resolution no. 77.16

Subject : Approved M.Sc. in Applied Chemistry programme with details of financial, faculty requirement & Course Curriculum in line with NEP 2020

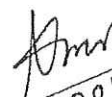
Please refer to letter No.356/Acad. /Senate/2023 Dated: July 25, 2023 for consideration of the finance committee & BoG on the above subject matter, the following documents are being sent for necessary action, please:

Document 01 : Details of financial & Faculty requirements. [Page 1]

Document 02 : Course Curriculum in the line with NEP 2020 [Page 2-6]


(P. K. Dutta)
HoD, Chemistry

forwarded


28/07/2023



रसायन विभाग
मोतीलाल नेहरु राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद 211004-प्रयागराज,
Department of Chemistry
Motilal Nehru National Institute of Technology Allahabad, Prayagraj -211004

New P.G. Programme for M.Sc. in Applied Chemistry

Details of Financial Budget

A. Budget required to start the new programme

S. No.	Head of Expenditure	Funds required	Justification
01	Recurring Grant	3.5 Lakhs	Since the Department is going to start M.Sc. Chemistry programme, the preparation & setup of lab & equipments, fund required.
02	Non-Recurring Grant	30.00 Lakhs	

B: Faculty Requirement: 04 (Four) [In the level of 10/11/12]

[Handwritten signature]

No. 1019 / Physics / 2023



Central Dak Receipt Centre
MNNIT ALLAHABAD
Receipt No.: 718
Date: 02-5-23

ANNEXURE-II
570
3-5-23

ANNEXURE-II

भौतिकी विभाग

मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद

प्रयागराज - 211004 (उप्र), भारत

Department of Physics

Motilal Nehru National Institute of Technology Allahabad

Prayagraj - 211004 (U.P.), India

Head
Department of Physics

May 2, 2023

Kindly take reference of letter no. 211/REg. Off./2023-24 dated April 27, 2023. The information asked in the letter is provided below. Supporting documents are attached herewith the letter.

1. Detailed proposal of the program incorporating NEP-2020 provisions preferably: Attached as Annexure.
2. Tentative Budget requirements/ financial implications on the institute:

Sr. No.	Particulars	Quantity	Estimated Cost / Expenditure / Budget
1.	Number of Faculty required	7	As per rule ✓
2.	Laboratories and Equipment required	3 Laboratories	₹55,00,000 ✓
3.	Computers and Software required	60 Computers, Matlab, Mathematica, LabVIEW	₹60,00,000 ✓
4.	Books and Journals required	≥ 200 Books, Journals subscribed for Ph.D. will be utilized, No additional requirement for journals	₹2,00,000 ✓
5.	Hostel Rooms required	29 (Boys + Girls)	As per rule ✓
6.	Class Rooms required	2	As per rule ✓

With regards

Ravi Prakash
2.5.2023

Ravi Prakash
Convener, DMPC
Physics Department

Annexure: Detailed proposal of the program including minutes of Department meeting dated June 7, 2022 to finalize faculty, lab and hostel requirement.

Registrar

Forwarded for kind consideration, please.

B. S. 2
2/5/23

cc: Dean Academic

B. S. 2

AP/A-II
Bandyopadhyay

Supd/AR/A2(AR)
2/5/23
2/5/23
2/5/23

मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद
प्रयागराज - 211004 (भारत)



मोतीलाल नेहरु राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद
प्रयागराज-211004 (भारत)
Motilal Nehru National Institute of Technology Allahabad
Prayagraj-211004 (India)

Received
Date 22/4/23
By

No. 211 / Reg. Off. / 2023-24

Dated: April 27, 2023

Dean (Academics)

Subject : Starting two new PG courses in Physics and Applied Chemistry as per the recommendations of the Senate -reg.

Reference : Your letter No. 21/Acad./2023 dated 12.04.2023.

Dear Sir/ Madam,

Please refer to your letter dated 12.04.2023 on the subject cited above.

The said letter encloses the minutes of the Seventy-fifth [75th] meeting of the Senate, regarding "starting two new PG courses in Physics and Applied Chemistry."

In this connection, it is to inform that the Ministry of Education vide letter D.O.F.No.33-3/2018-TS.III, dated 27.12.2019 has communicated that in order to restrict the over expenditure owing to starting of new programmes by NITs, the institutions need to seek prior approval of the Ministry of Education, before making any budgetary provisions for the same. The Ministry of Education has also directed that in order to seek prior approval of the Ministry, Institutions need to submit the detailed proposal, after the approval of the Finance Committee/ Board of Governors.

In view of above, you are requested to provide the following information along with supporting documents for further processing and placing the same before Finance Committee/ Board of Governors:

- Detailed proposal of the programmes incorporating NEP-2020 provisions preferably.
- Tentative Budget requirements / financial implications on the Institute.
- Requirements for smooth running of the programmes as under:

Sl. No.	Particular	Requirements/ Tentative Budget	
		Quantity	Estimated Cost/ Expenditure/ Budget
1.	Number of Faculty required		
2.	Laboratories and Equipment required		
3.	Computers and Software required		
4.	Books and Journals required		
5.	Hostel Rooms required		
6.	Class Rooms required		

Please provide the above information along with supporting documents at the earliest (latest by May 07, 2023) to the Office of the Registrar for onwards submission of the proposal to the Finance Committee / Board of Governors for approval.

This is for your kind information, please.

Regards,

Yours

Ramesh Pandey
27/04/23

[Ramesh Pandey]
Registrar [Ofg.]

Chairman, SMPC
R. P. Tewari
28/4/2023

Please provide the above information at your earliest but not later than 03.05.2023
Ramesh Pandey
01.05.2023
Head, Dept. of Physics
Head, Dept. of Chemistry


Urgent
Convenor
SMPC
In view
Pl.
R.P. 2-
15/23

No. 211 / Reg. Off. / 2023-24

Dated: April 27, 2023

Copy to:

1. Director, MNNIT Allahabad.


27/04/23

[Ramesh Pandey]
Registrar [Ofg.]



भौतिकी विभाग
मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद
प्रयागराज - 211004 (उ०प्र०), भारत
Department of Physics
Motilal Nehru National Institute of Technology Allahabad
Prayagraj-211004 (U.P.) India

दिनांक 02/06/2022

अध्यक्ष, एस०एम०पी०सी० / (Chairman SMPC)

महोदय,

एस०एम०पी०सी० (SMPC) की दिनांक 02/02/2022 मंत्रणा में क्रमांक 8 पर अनुशंसित निर्णय के अनुसार, भौतिकी विभाग ने दिनांक 13 मई 2022 को विभाग की बोर्ड आफ अकेडमिक (Board of Academics, BoAC) की मीटिंग आहुत की गई। इस BoAC मीटिंग में विभाग द्वारा प्रस्तावित द्विवर्षीय M.Sc. Physics के पाठ्यक्रम पर विस्तृत चर्चा की गयी। चर्चा के उपरान्त BoAC द्वारा M.Sc. Physics का अनुशंसित पाठ्यक्रम इस पत्र के साथ मूल प्रति में संलग्न किया गया है।

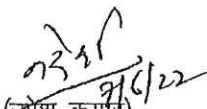
इसके अतिरिक्त प्रस्तावित M.Sc. Physics प्रोग्राम हेतु आवश्यक संकाय सदस्यों, प्रयोगशालायें और दाखिले की प्रक्रिया के सम्बन्ध में विभाग के संकाय सदस्यों ने दिनांक जून 07, 2022 को आहुत बैठक में अनुशंसित मिनट्स भी इस पत्र के साथ संलग्न किये गये हैं।

आपके अवलोकनार्थ एवं उचित कार्यावाही हेतु प्रेषित।

प्रतिलिपि:

1. अधिष्ठाता (शैक्षिक)


(नरेश कुमार)
विभागाध्यक्ष, भौतिकी विभाग
विभागाध्यक्ष, भौतिकी विभाग
मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद
प्रयागराज - 211004 (भारत)


(नरेश कुमार)
विभागाध्यक्ष, भौतिकी विभाग
विभागाध्यक्ष, भौतिकी विभाग
मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद
प्रयागराज - 211004 (भारत)



भौतिकी विभाग
मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद
प्रयागराज - 211008 (उ०प्र०), भारत
Department of Physics
Motilal Nehru National Institute of Technology Allahabad
Prayagraj-211004 (U.P.) India

Agenda Item No.2: To finalize the requirements of Faculty members, Laboratories, Hostel etc. for the proposed M.Sc. programme.

Recommendations: The department recommended following requirements for the proposed M.Sc. Physics programme.

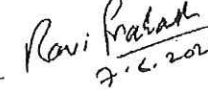
Sr. No.	Requirements	Numbers	Remarks
1.	Faculty Requirements	07	Ref. 944/CSED/2018 dated 08/03/2018 and Ref. F.No.33 – 9/2011-TS.III [APPENDIX. - A2 (DISTRIBUTION OF FACULTY POSTS AMONG DEPARTMENTS)] – Copy attached
2.	Laboratory Requirements	03	(A) General Physics Laboratory/Electronics Laboratory (B) Advanced Physics Laboratory (C) Computation Laboratory
3.	Hostel room requirements	29	As per proposed intake

Further, the mode of admission to the proposed M.Sc. Physics programme will be through Joint Admission Test for M.Sc. (JAM) and Centralized Counselling for M. Sc./M. Sc. (Tech.) Admission (CCMN) based on JAM score.

Meeting ended with the thanks to the Chair.


(S N Pardey)


(Animesh K Ojha)


(Ravi Prakash)


(Naresh Kumar)



June 07, 2022

Minutes of the meeting of the Faculty members of the Department

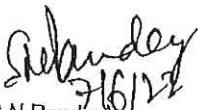
The meeting of the Faculty members of the Department was convened on June 07, 2022 at 03:00 PM in the office of HOD. Following members attended the meeting:

- | | |
|------------------------|---------------------------|
| 1. Dr. Naresh Kumar | Associate Professor & HOD |
| 2. Prof. S. N. Pandey | Professor |
| 3. Dr. Animesh K. Ojha | Associate Professor |
| 4. Dr. Ravi Prakash | Assistant Professor |

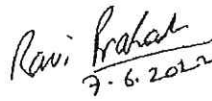
Agenda Item No.1: To discuss the observations received from MED, Chemical Engg. Dept and CED for the BoAC recommended B.Tech. 1st Semester syllabus to be implemented in accordance with NEP.

Recommendations: The department discussed letters/email received from Head CED, MED and Chemical Engineering Department regarding their observations on B.Tech. 1st Semester syllabus of Engineering Physics (I/ II/ III) courses recommended by the BoAC of the Physics Department. The department recommends the following

- (A) As requested by Chemical Engineering Department, the proposed Engineering Physics – I may be allotted for B.Tech. students of Chemical Engineering Department.
- (B) As requested by Civil Engineering Department, the proposed Engineering Physics – I may be allotted for B.Tech. students of Civil Engineering Department.
- (C) With regard to email received from Head MED dated May 25, 2022, the department considers the minor modifications in the syllabus of Engineering Physics – II [Mechanical, Production & Industrial Engineering Branches] and the same is attached herewith as Annexure – I.


(S N Pandey)


(Animesh K Ojha)


(Ravi Prakash)


(Naresh Kumar)



भौतिकी विभाग
2466
4-8-23

भौतिकी विभाग

Central Desk Receipt Centre
MNNIT ALLAHABAD

Receipt No.: 3130

मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद, प्रयागराज - 211004 भारत 04-0-23

Physics Department

Motilal Nehru National Institute of Technology Allahabad, Prayagraj - 211004 INDIA

L.No-1128/Phy/2023

August 3, 2023

Minutes of the meeting

The meeting of DFAC was convened on 01.08.2023 in the office HoD. Following members attended the meeting

- | | |
|--------------------|---------------------------|
| 1. Prof P P Sahay | Professor |
| 2. Dr A K Ojha | Associate Professor |
| 3. Dr Naresh Kumar | Associate Professor & HOD |

Agenda of the Meeting:

- To discuss the matter related to the purchase of books/journal for central library.
- Any other matter

Recommendations

- The DFAC discussed the requirement of the books for the proposed M.Sc. physics programme and recommended for the purchase of the books as per list enclosed.
- The DFAC also recommended to continue the list of journal already subscribed by the Department.
- In any other item, it was brief by the HOD the already approved M.Sc. Physics programme by the Senate is likely to be put up in the forthcoming meeting of BOG. With regard to the upcoming BOG meeting, it was asked by the Registrar whether the proposed M.Sc. programme is in accordance with NEP-2020 or not. It was clarified that the proposed M.Sc programme was prepared in accordance with NEP-2020. The DFAC further clarifies that the proposed M.Sc. Physics programme is in accordance with NEP-2020.

The meeting ended with the thanks to the Chair

PP Sahay
01/08/2023
(P P Sahay)

A K Ojha
03/08/23
(A K Ojha)

Naresh Kumar
03/08/23
(Naresh Kumar)

Registrar

Sir,

With regard to the proposed M.Sc. Physics programme, the recommendations of DFAC is submitted for your kind consideration, please.

Naresh Kumar
4.8.23

copy to: Dean (Academic)

AR(A-II)

Naresh Kumar
04/08/23

Head, Department of Physics
Motilal Nehru National Institute of Technology Allahabad
Allahabad-211004, INDIA

Naresh Kumar
4.8.23



भौतिकी विभाग

मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद, प्रयागराज -211004 भारत

Physics Department

Motilal Nehru National Institute of Technology Allahabad, Prayagraj – 211004 INDIA

1 Unique features of the program

The Masters of Science (M.Sc.) in Physics is a two-year (four-semester) program with following, unique features:

- This two-year program is intended to provide basics of physics in the first year and applied, aspects of physics in various fields in the second year through electives, projects and core, courses. Some of such electives are as follows:

<i>Condensed Matter Physics - II</i>	<i>Molecular Spectroscopy</i>	<i>Plasma Physics</i>
<i>Nanostructured Materials</i>	<i>Introduction to quantum computing</i>	<i>Physics of Biological Systems</i>
<i>Nonlinear Dynamics and Chaos</i>	<i>Thin Film Technology</i>	<i>Advanced Materials Characterization</i>
<i>X-ray and Electron Diffraction</i>	<i>Virtual Instrumentation: LabVIEW</i>	<i>Energy storage systems</i>
<i>Molecular Orbital Theory and Electronic Spectra of Molecules</i>		

- In addition to employability of the students in different industries, the program is designed in, such a way so that students can qualify various international and national level competitive, exams including GRE, TOEFL, GATE, CSIR-JRF, JEST and other higher-educational, entrance exams.
- The students shall learn in-depth in their area of interest through **research projects** of one-year duration.

2 Objective of the program

The program shall develop basic understanding of physics and prepare students for the challenges in the field of research and development, academia, and industry by providing them in-depth knowledge through projects and electives in their field of interest.

3 Technical details

- Degree on offer: The department of physics shall offer the degree "Master of Science (M.Sc.) in Physics".
- Total intake: 29 Students.
- Eligibility:
 - B.Sc. with physics as one of the subject in the final year.
 - Candidates should have minimum 60% marks (or CGPA 6.5/10) in aggregate of all semesters/years and for SC/ST/PwD candidates 55% marks (or CGPA 6.0/10) in aggregate of all semesters/years.