

ANNUAL REPORT 2024-25

राष्ट्रीय
उन्नत विनिर्माण
प्रौद्योगिकी संस्थान
NATIONAL INSTITUTE OF
ADVANCED MANUFACTURING
TECHNOLOGY

ADMINISTRATIVE BUILDING



NATIONAL INSTITUTE OF ADVANCED MANUFACTURING TECHNOLOGY

(Formerly National Institute of Foundry and Forge Technology)

Deemed to be University under Distinct Category under MoE, Govt. of India

Hatia, Ranchi – 834003 (Jharkhand)



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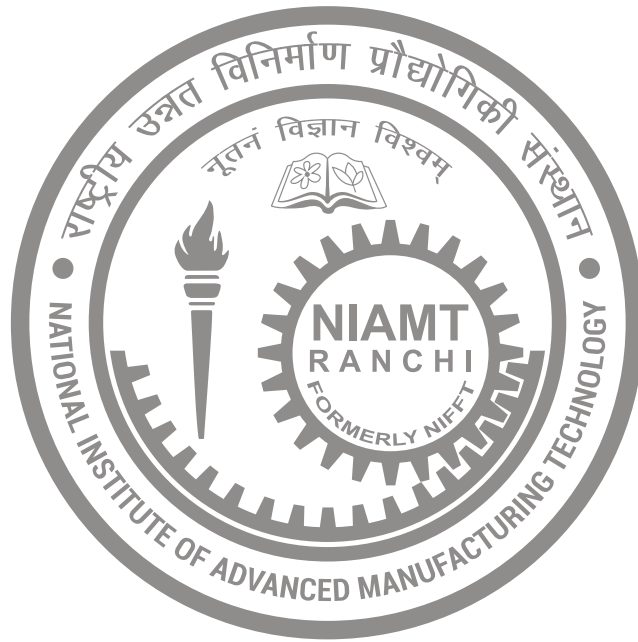
Hatia, Ranchi – 834003 (Jharkhand)





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PREAMBLE

About NIAMT: National Institute of Advanced Manufacturing Technology (NIAMT) (formerly NIFFT), Ranchi: The Vanguard of Manufacturing Excellence for India.

National Institute of Advanced Manufacturing Technology (NIAMT), the erstwhile National Institute of Foundry and Forge Technology (NIFFT) Ranchi, was established in 1966 by the Government of India with the assistance of UNESCO. The name of the institute was changed to National Institute of Advanced Manufacturing Technology (NIAMT) on September 2020. Further in February 2024, the Ministry of Education (MoE), Government of India (GoI) has conferred the status of Deemed to be University (under distinct category) to Institute.

NIAMT Ranchi, over the years, has evolved as an industry centric four-tier academic framework constituted by Advanced Diploma, B. Tech, M. Tech and PhD programmes in the relevant fields of study. The present academic framework of NIAMT includes the multidisciplinary feature of Advanced Manufacturing Technology involving B. Tech in Materials and Metallurgical Engineering, Mechanical Engineering, Production and Industrial Engineering, and Computer Engineering. The Doctoral program is focused on application of fundamental knowledge towards value addition in processes and products.

The students are admitted to the undergraduate and postgraduate courses, run by the Institute, through JEE mains and CCMT platforms, respectively. The Institute is completely residential with a 58 acre of lush green campus, well-equipped with academic facilities, library with ample number of printed text resources and online reading and reference materials, separate girls' and boys' hostels, residential facilities for the faculty members, officers and staff, playground and gymkhana, dispensary for medical care, and all other liveable facilities. In addition to the Government scholarship schemes, students are financially supported through merit-based scholarships scheme of the Institute.

The faculty of the Institute are recruited with high eligibility standards, at par with INIs, and are exceptional in their areas of expertise. The academic and administrative endeavours of the Institute is effectively supported by highly experienced officers and technical staff in conducting training and research at laboratories and workshop as well as conducting the activities at different administrative sections.

Its unique pedagogical focus on manufacturing technology has always been the attraction of core manufacturing industries in the recruitment of students of NIAMT across the country. The Placement & Professional Development Cell (formerly Industry Liaison Cell) of NIAMT Ranchi has been catering its services according to the employment needs of the students. Besides successful careers in industries, a good number of pass-out graduates join postgraduate programs in IITs, IISc, and IIMs. Alumni of the Institute, besides leading the manufacturing industries, are serving as faculty member in IITs, NITs, IIMs and at reputed institutes abroad.

The completely residential campus encourages the students to take up various extra-curricular activities, throughout the year, like sports and cultural performance, building scientific models and racing cars for national and international events, promoting education among the less-privileged children of the locality through 'Kartavya', an NGO run by students and alumni of the Institute.

Keeping in view, the emerging need for digital competence in the manufacturing sector, the Institute has established the Centre of Excellence in Industry 4.0, in collaboration with the Software Technology Park of India, Ministry of Electronics and Information Technology, GoI, to produce the vanguards in achieving self-reliance in digital manufacturing, as well as to promote incubation of start-ups and entrepreneurship in the domain of digital manufacturing. (e.g., big data, ML, AI, IoT, etc.). In a parallel effort, the Institute has initiated the establishment of a meticulously designed Smart Manufacturing facility in collaboration with Central Manufacturing Technology Institute, Bangalore.

Besides the opportunities in the emerging areas of manufacturing technology, the Institute finds plenty of untapped opportunities in small and microscale rural artisanship and organic resource-based livelihood practices popular in the State of Jharkhand. With an aim to include these segments in holistic economic prospect, the Institute has established the inclusive Technology Business Incubation centre (a section 8 company) to promote inclusive self-reliance.

In summation, NIAMT is committed to exert its all-out endeavour to adapt, develop and disseminate the technological, translational and transformational competence with an aim to emerge as a globally visible knowledge hub in Advanced Manufacturing technology.



International Conference on Advances in Foundry and Forming Technology

In an era of globalization, the dynamics of production and manufacturing are undergoing a significant transformation. The complexity associated with transformation leads us to explore and understand the evolving paradigm. Foundry and forming industries are one of the main contributors of metallic components for various industries, from automotive to medicine, from aerospace to the energy sector. For manufacturing a component, understanding of various interlinked field are required. Hence this conference was not limited to foundry and forming only and acted as a single place to address various related issues. The International Conference on Advances in Foundry and Forming Technology (ICAFFT) organised in 18th to 19th December 2024, was meticulously designed to bring together renowned academicians, honored researchers from distinguished institutions, industry leaders and practitioners as well as doctoral students.





BOARD OF GOVERNORS (BoG)

Chairman		
1	Vacant	Chairman
Representatives from Government of India		
2	Shri Govind Jaiswal, IAS Joint Secretary (TEL) Department of Higher Education, Ministry of Education, Govt. of India Shastri Bhawan, New Delhi – 110 001	Member
3	Shri Sanjog Kapoor Joint Secretary & Financial Advisor Department of Higher Education, Ministry of Education, Govt. of India Shastri Bhawan, New Delhi – 110 001	Member
Representative of Ministry of Industry Government of India		
4	Shri Mohammad Isharar Ali Director, DPIIT, Ministry of Commerce and Industry Room No.126, Vanijya Bhawan, New Delhi – 110 011	Member
Representative of All India Council for Technical Education		
5	Professor M. K. Tiwari Director Indian Institute of Management, Mumbai Vihar Lake Road, Powai, Mumbai - 400087	Member
Representative of Industries including Public Enterprises		
6	Shri Pradeep Goyal, Founder Chairman & Managing Director, Pradeep Metals Limited, Mumbai	Member
7	Shri Sachin B. Sabnis Managing Director Belgaum Ferrocast India Pvt. Ltd (BFPL)	Member
8	Professor Markrand Shrikrishna Kulkarni, Department of Mechanical Engineering, Indian Institute of Technology, Bombay	Member
9	Vacant	Member
10	Vacant	Member
Representative of Technical Institutes/ Engineering Profession		
11	Professor Pallab Banerji Professor Materials Science Centre Indian Institute of Technology, Kharagpur	Member
12	Professor B. S. Murthy Department of Metallurgical and Materials Engineering NAC Rd, Indian Institute of Technology, Madras	Member



Co-opted members by the Board		
13	Shri Sudhir Mutalik Founder CMD of Positive Metering Pumps (I) Pvt. Ltd.	Member
14	Shri Vikas Khanvelkar Founder CMD – Design Tech Systems Ltd.	Member
Co-opted members from Faculty		
15	Professor S. R. Kumar Dept. of Applied Science & Humanities, NIAMT, Ranchi	Member
16	Professor A. K. Pathak Dept. of Mechanical & Manufacturing Engineering, NIAMT, Ranchi	Member
Member Secretary		
17	Professor P. P. Chattopadhyay Director, NIAMT, Ranchi	Member Secretary
Invited Members		
18	Professor Arvind Pandey Registrar-in-Charge, NIAMT, Ranchi	Invited Member

ADMINISTRATIVE AND FINANCE COMMITTEE (AFC)

Chairman		
1	Vacant	Chairman
Representatives from Government of India		
2	Shri Govind Jaiswal, IAS Joint Secretary (TEL) Department of Higher Education, Ministry of Education, Govt. of India Shastri Bhawan, New Delhi – 110 001	Member
3	Shri Sanjog Kapoor Joint Secretary & Financial Advisor Department of Higher Education, Ministry of Education, Govt. of India Shastri Bhawan, New Delhi – 110 001	Member
Representative of Ministry of Industry Government of India		
4	Shri Mohammad Isharar Ali Director, DPIIT, Ministry of Commerce and Industry Room No.126, Vanijya Bhawan, New Delhi – 110 011	Member
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5	Professor M. K. Tiwari Director Indian Institute of Management, Mumbai Vihar Lake Road, Powai, Mumbai - 400087	Member
Representative of Industries including Public Enterprises		
6	Shri Pradeep Goyal, Founder Chairman & Managing Director, Pradeep Metals Limited, Mumbai	Member
7	Shri Sachin B. Sabnis Managing Director Belgaum Ferrocast India Pvt. Ltd (BFPL)	Member
8	Professor Markrand Shrikrishna Kulkarni, Department of Mechanical Engineering, Indian Institute of Technology, Bombay	Member
9	Vacant	Member
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Member Secretary		
17	Professor P. P. Chattopadhyay Director, NIAMT, Ranchi	Member Secretary
Invited Members		
18	Professor Arvind Pandey Registrar-in-Charge, NIAMT, Ranchi	Invited Member

STANDING BUILDING COMMITTEE (SBC)

1	Professor Partha Protim Chattopadhyay Director, NIAMT Hatia, Ranchi - 03.	Chairman
2	Shri Govind Jaiswal, IAS Joint Secretary (TEL), Department of Higher Education, Govt. of India.	Member
3	Professor Debasis Roy, Civil Construction and Maintenance, Indian Institute of Technology, Kharagpur.	Member
4	Shri S. Bandyopadhyay Sr. Manager, Electrical Engineer Heavy Engineering Corporation Limited Dhurwa, Ranchi-834004	Member
5	General Manager NBCC, 4th Floor, 401, Mangal Tower Old H. B. Road, Ranchi.	Member
6	Shri Amrendra Kumar Singh Senior General Manager (Civil) MECON Ltd, Ranchi-834002	Member
7	Professor A. K. Pathak Member, BoG, Department of Mechanical and Manufacturing Engineering, NIAMT, Ranchi	Member
8	Professor S. R. Kumar Member, BoG, Department of Applied Science & Humanities, NIAMT, Ranchi.	Member
9	Professor S. R. Kumar Dean (P&D) NIAMT, Ranchi	Member
10	Professor Arvind Pandey, Registrar I/C, NIAMT, Hatia, Ranchi.	Member Secretary



ACADEMIC COUNCIL

SI	Name	AMC Post
1	Professor Partha Protim Chattopadhyay, Director, NIAMT, Ranchi	Chairman
2	Dr. Chiranjeev Kumar, Professor HoD Computer Science Engineering, IIT (ISM) Dhanbad	Member
3	Dr. Manoj Kumar, Dean Academic, Central University Jharkhand, Ranchi	Member
4	Dr. Pratik Swarup Dash, R & D, Tata Steel, Jamshedpur	Member
5	Dr. H. S. Mishra, Ex DGM, Tata Motors Jamshedpur	Member
6	Dr. Pratik Kumar Mallick, General Manager, Quality Assurance, Usha Martin Limited, Tatisilway, Ranchi Jharkhand	Member
7	Dr. Golap Md Chowdhury, DGM (ME&A), RDCIS, SAIL, Ranchi, Jharkhand	Member
8	Professor Niranjan Kumar Singh, Dean (Academic), NIAMT, Ranchi	Member
9	Professor Shyam Ranjan Kumar, Dean Planning & Development, NIAMT, Ranchi	Member
10	Professor Amitesh Kumar, Dean Student Affairs, NIAMT, Ranchi	Member
11	Professor Manoj Kumar, HOD (FFT), NIAMT, Ranchi	Member
12	Professor Anil Kumar, HOD (DASH and EE), NIAMT, Ranchi	Member
13	Professor G. Rajamohan, HOD (ME), NIAMT, Ranchi	Member
14	Professor Ghanshyam Das, HOD (MME), NIAMT, Ranchi	Member
15	Dr. Madhu Kumari, HOD (ECE), NIAMT, Ranchi	Member
16	Professor Sanjay Kumar, NIAMT, Ranchi	Member
17	Professor Amitava Mondal, NIAMT, Ranchi	Member
18	Professor Kamlesh Kumar Singh, NIAMT, Ranchi	Member
19	Professor Rajkumar Ohdar, NIAMT, Ranchi	Member
20	Professor Ajai Kumar Pathak, NIAMT, Ranchi	Member
21	Professor Nandita Gupta, NIAMT, Ranchi	Member
22	Professor Anil Kumar, NIAMT, Ranchi	Member
23	Professor Arvind Pandey, NIAMT, Ranchi	Member
24	Professor Anoop Kumar Sood, NIAMT, Ranchi	Member
25	Professor Debdas Roy, NIAMT, Ranchi	Member
26	Dr. Banshidhara Mallik, Associate Professor, NIAMT, Ranchi	Member
27	Dr. V. M. S. Hussain, Assistant Professor, NIAMT, Ranchi	Member
28	Dr. Ajit Kumar Pramanick, Assistant Professor, NIAMT, Ranchi	Member
29	Dr. Partha Sarathi Mondal, Assistant Professor, NIAMT, Ranchi	Member
30	Dr. Chinmaya Chattopadhyay, Assistant Professor, NIAMT, Ranchi	Member
31	Dr. Vikash Kumar Gupta, Assistant Professor, NIAMT, Ranchi	Member
32	Dr. Subhankar Basu, Assistant Professor and Course Coordinator (M. Tech. & Ph.D), NIAMT, Ranchi	Invited Member
33	Dr. Ratnakar Das, Assistant Professor and Course Coordinator (B. Tech.), NIAMT, Ranchi	Invited Member
34	Dr. Vineet Chak, Assistant Professor and Course Coordinator (ADC), NIAMT, Ranchi	Invited Member
35	Mr. Sumit Raj, Assistant Registrar (Academic), NIAMT, Ranchi	Invited Member
36	Dr. Arvind Pandey, Registrar I/c, NIAMT, Ranchi	Secretary

DEPARTMENT OF FOUNDRY & FORGE TECHNOLOGY (FFT)

ABOUT DEPARTMENT:

Department of Foundry Technology and the Department of Forge Technology was created in 1966 offering Advanced Diploma Courses (ADC) in Foundry Technology and Forge Technology respectively to provide trained manpower in the primary metal processing industries. M. Tech Programme was introduced in the year 1985 with the specialization in Foundry-Forge Technology.

To be competent with the present situation, the department grew noticeably and established new areas of research in the domain. The department is having competent and highly qualified faculty members. Earlier, the Department of Foundry Technology and the Department of Forge Technology was running separately. In 2022, both merged as a single Department of Foundry and Forge. Currently, this department is running two advanced Diploma courses: Foundry Technology and Forge Technology, one M. Tech. programme as Foundry and Forge Technology and one B. Tech. programme as Production and Industrial Engineering (honours in Foundry and Forge).

INCUMBENCY CHART OF HODS FROM 01-08-2011 TO 31-03-2025

Department of Erstwhile Foundry Technology*			
Sl No.	Name of the HoD	From	To
1	Dr. K.K. Singh	01-08-2011	31-07-2014
2	Dr. Nandita Gupta	01-08-2014	31-07-2017
3	Dr. Amitesh Kumar	01-08-2017	10-11-2022
Department of Erstwhile Forge Technology*			
Sl No.	Name of the HoD	From	To
1	Dr. N.K. Singh	01-05-2011	30-04-2012
2	Dr. R.K. Ohdar	01-05-2012	28-07-2015
3	Dr. P. Talukdar	29-07-2015	30-07-2017
4	Dr. Manoj Kumar	31-07-2017	31-07-2019
5	Dr. N.K. Singh	01-08-2019	10-11-2022
Department of Foundry and Forge Technology*			
Sl No.	Name of the HoD	From	To
1	Dr. K.K. Singh	11-11-2022	10-11-2024
2	Dr. Manoj Kumar	11-11-2024	Continuing
*Erstwhile Department of Foundry Technology and erstwhile Department of Forge Technology were merged to a single Department i.e. Foundry and Forge Technology, vide O.O. No. 369/2022, dated 11-11-2022.			

FACULTY:

1	Dr. Niranjan Kumar Singh B.Sc. Engg. (Mech.), M. Tech. (Foundry & Forge Tech.), Ph.D. (Ranchi University)	Professor
2	Dr. Manoj Kumar B.Sc. Engg. (Mech.), M. Tech. (Foundry & Forge Tech.), Ph.D. (IIT Kanpur)	Professor



3	Dr. K. K. Singh B. Sc. Engg. (Met.), M. Tech. (IIT Kanpur.), Ph.D. (IIT Kanpur), LMIFO, LMIIM, FM Institution of Engineer	Professor
4	Dr. R. K. Ohdar B.E. (Ind. Engg.), M. Tech. (Foundry & Forge Tech.), Ph.D. (IIT Kharagpur), LMIIM	Professor
5	Dr. Nandita Gupta B.E. (Mech.), Ph.D.(Ranchi University) MIIF, LMIIM, FIEI	Professor
6	Dr. Amitesh Kumar B.E., M.Tech., Ph.D. (IIT Kharagpur), MIIF, LMIIM, LMIFO	Professor
7	Dr. Ajit Kumar Pramanick B.Tech (Mech.), M. Tech (IIT Roorkee), Ph.D (Jadavpur University)	Assistant Professor
8	Dr. Vineet Chak B.Tech (Mech.), M. Tech (IIT Roorkee), Ph.D. (Jadavpur University)	Assistant Professor
9	Dr. Deepak Kumar B.Tech (Mech.), M. Tech (AMU Aligarh), Ph.D. (IIT Roorkee)	Assistant Professor
10	Dr. Himanshu Khandelwal B.Tech (P&I – MBM Engineering College), M.Tech. (Metallurgy - IIT Roorkee), Ph.D. (Mechanical - IIT Bombay)	Assistant Professor
11	Dr. Kulkarni Rahul Ramesh B.E. (Mech.), M.Tech (NITK), Ph.D. (IIT Bombay)	Assistant Professor
12	Dr. Vivek S. Ayar B.E, M.Tech., Ph.D (CHARUSAT).	Assistant Professor (Joined on 04 th October, 2023)
13	Dr. E. Hemachandran B.Tech, M.Tech., Ph.D. (IIT Madras)	Assistant Professor (Joined on 09 th October, 2023)
14	Dr. Sunny Singhania B.Tech, M.Tech., Ph.D. (IIT Kanpur)	Assistant Professor (Joined on 23 rd November, 2023)
15	Dr. Anas Ahmad Siddiqui B.Tech (Mech.), M.Tech. (MST), Ph.D. (MNNIT Allahabad)	Assistant Professor (Joined on 24 th November, 2023)
16	Dr. Pavitra Singh B.Tech, M.Tech.(IIT Guwahati), Ph.D. (IIT Guwahati)	Assistant Professor (Joined on 28 th November, 2023)

ACTIVITIES:

Academic Activities:

Number of subjects offered by the department:

Name of Course	No. of Subjects Offered
M. Tech. Course	14
B. Tech. Course (PIE)	14
A.D.C.	24

Faculty of the department were involved in guiding Seminars and Projects of M.Tech., B.Tech., and ADC besides their normal classes for long term courses.



Publications

Journal Articles

1. **Ayar, V. S., Khandelwal, H.,** Parida, S. K., Shah, M. J., Vyas, A. V., Barot, R. P., & Sutaria, M. P. (2024). Design and development of IoT enabled modular melting, pouring, and, stirring system for casting of non-ferrous alloys and sustainable aluminum matrix composites (AMCs). *International Journal on Interactive Design and Manufacturing (IJIDeM)*, 19(6), 4149–4163. <https://doi.org/10.1007/s12008-024-02028-1>
2. **Khandelwal, H.,** Gautam, S. K., **Ayar, V. S.,** Upadhyaya, R., & Kumar, A. (2024). Surface modified reinforcements on the structure properties of A356/SIC stir cast composite. *Silicon*, 16(17), 6269–6276. <https://doi.org/10.1007/s12633-024-03160-z>
3. **Khandelwal, H.,** Gautam, S. K., **Ayar, V. S.,** & Upadhaya, R. (2024). To investigate the effect of varying weight % Cu on the microstructure and mechanical properties of gray cast iron. *AIP Conference Proceedings*, 3221, 020023. <https://doi.org/10.1063/5.0235860>
4. Parida, S. K., Murmu, A. M., Hari, V., **Ayar, V. S.,** & Das, R. (2024). 3D FE adhesion failure analyses of adhesive bonded single lap joint made with functionally modulus graded curved adherends. *International Journal on Interactive Design and Manufacturing (IJIDeM)*, 19(6), 4103–4112. <https://doi.org/10.1007/s12008-024-01991-z>
5. Thirisangu, J., Rajendran, V. K., Selvakannan, S., Jayakumar, S., **Hemachandran, E.,** & Subramani, K. (2025). Droplets in acoustic fields: A unified theory from migration to splitting. *Physics of Fluids*, 37(5). <https://doi.org/10.1063/5.0266640>
6. Singh, P., **Hemachandran, E.,** Prasad, U., Singh, K. K., & Mallik, B. (2025). Numerical analysis of a gas-solid vortex dryer integrated with a waste heat recovery system. *Journal of the Taiwan Institute of Chemical Engineers*, 171, 106037. <https://doi.org/10.1016/j.jtice.2025.106037>
7. **E. Hemachandran,** Singh, P. & Singh, V.K.. (2024). Manufacturing Methods for Composite Materials, Composites: Modeling and Manufacturing. CRC Press (Taylor and Francis Group), <https://doi.org/10.1201/9781003564355>
8. Kumar, D., **Singh, P.,** Kalita, P., & Mahanta, P. (2025). Thermodynamic analysis of a sustainable solar-biomass hybrid dryer with thermal energy storage systems. *Thermal Science and Engineering Progress*, 61, 103527. <https://doi.org/10.1016/j.tsep.2025.103527>
9. Prasad, A., Datta, S., De, S., **Singh, P.,** & Mahto, B. (2024). Bioresorbable composite for orthopedics and drug delivery applications. In *Applications of Biotribology in Biomedical Systems* (pp. 327–344). Springer Nature Switzerland. https://doi.org/10.1007/978-3-031-58327-8_12
10. Paul, A. K., Prasad, A., Mahto, B., Kumar, A., & **Singh, P.** (2024). Introduction to bioenergy and waste to energy. In *Biodegradable Waste Processing for Sustainable Developments* (1st ed., pp. 1–33). CRC Press. <https://doi.org/10.1201/9781003502012-1>
11. **Kulkarni, R. R.,** & Poddar, V. (2024). Impact of cold upset forging during heat treatment in Al-1.1Si-0.97Mg alloy. *Engineering Research Express*, 7(1), 015407. <https://doi.org/10.1088/2631-8695/ada3b1>
12. **Kulkarni, R. R.** (2024). Progress in non-ferrous alloy behavior in forging technology. In *Lecture notes in mechanical engineering* (pp. 405–413). https://doi.org/10.1007/978-981-97-4324-7_32
13. Sata, A., Maheta, N., **Khandelwal, H.,** & Gautam, S. (2025). Developing geometry based criterion function method for predicting porosity in LM6 castings. *Archives of Foundry Engineering*. <https://doi.org/10.24425/afe.2025.153802>
14. Gautam, S. K., & **Khandelwal, H.** (2025). Effect of Semi-Solid Metal Processing Routes on structure property relationship of Rheo Cast A339 alloy. *International Journal of Metalcasting*. <https://doi.org/10.1007/s40962-025-01686-5>



15. Gautam, S. K., Singh, B. K., Singh, R. K., Tiwari, S. K., Upadhyaya, R., **Khandelwal, H.**, Kumar, G., Hasnain, S. M. M., & Zairov, R. (2025). Advancements in semi-solid metal processing of ADC12 aluminium alloy: Microstructure and mechanical properties. *Results in Engineering*, 25, 104453. <https://doi.org/10.1016/j.rineng.2025.104453>
16. Sata, A., Maheta, N., Dave, A. N., & **Khandelwal, H.** (2025). Geometry based and simulation supported porosity prediction in ductile iron casting. *Engineering Research Express*, 7(1), 015411. <https://doi.org/10.1088/2631-8695/ada71e>
17. **Khandelwal, H.**, & Ravi, B. (2024). Effect of varying part geometry and mold constraints on dimensional deviations of sand cast parts. *International Journal on Interactive Design and Manufacturing (IJIDeM)*, 19(7), 4973–4986. <https://doi.org/10.1007/s12008-024-02118-0>
18. **Khandelwal, H.**, Gautam, S. K., & Ravi, B. (2024). Numerical Simulation and Experimental Validation of Fluidity of AlSi12CuNiMg Alloy using Multi Spiral Channel with Varying Thickness. *International Journal of Metalcasting*, 19(2), 1202–1211. <https://doi.org/10.1007/s40962-024-01383-9>
19. Renukananda, K. H., **Khandelwal, H.**, & Ravi, B. (2024). Influence of gating geometry variations on flow balancing of horizontal multi-gate systems in casting. *International Journal of Metalcasting*. <https://doi.org/10.1007/s40962-024-01372-y>
20. Upadhyaya, R., **Singh, K. K.**, Gautam, S. K., Kumar, R., Khandelwal, H., & Sharma, J. D. (2024). Investigation of the quality of Flywheel SG iron sand casting using the optimized riser dimensions: numerical simulation and experimental validation. *International Journal of Metalcasting*, 19(3), 1546–1556. <https://doi.org/10.1007/s40962-024-01407-4>
21. Azad, S. K., Mazloun, K., **Khandelwal, H.**, Gupta, N., & Sata, A. (2024). Optimization of the process parameters for vertical centrifugal casting of A356 by numerical simulation. *Engineering Research Express*, 6(2), 025403. <https://doi.org/10.1088/2631-8695/ad36af>
22. **Pramanick, A. K.**, & Kumar, M. (2024). Parametric optimization in co-axial laser powder deposition of cobalt-base alloys on DIN 1.2714 die steel. *Proceedings of the Institution of Mechanical Engineers Part C Journal of Mechanical Engineering Science* 2024, 238(2), 543–556. <https://doi.org/10.1177/09544062231175355>
23. Raj, M. P., **Pramanick, A. K.**, Biswas, P., & Kumar, M. (2024). Optimization and high-temperature wear characterization of Stellite alloy claddings developed using TIG welding on 56NiCrMoV7 die steel. *Surface and Coatings Technology*, 487, 131015. <https://doi.org/10.1016/j.surfcoat.2024.131015>
24. **Singhania, S.**, & Law, M. (2024). Regenerative instabilities in guided metal circular sawing. *Sadhana*, 49(1). <https://doi.org/10.1007/s12046-024-02442-x>

Book Chapters

1. **Khandelwal, H.** (2025). Advancing Indian foundries through AI and ML: overcoming challenges and unlocking global potential. In *Compendium of Foundry Technology Papers, Collectors Volume on Occasion of 75th Anniversary of IIF* (pp. 63–74). The Institute of Indian Foundrymen, National Centre For Technical Services.
2. **Khandelwal, H.**, Sood, A. K., Ayar, V., & **Chak, V.** (2025). A CAD and simulation approach for casting design optimization: reducing defects and enhancing yield in foundry production. In *Elsevier (in press)*. Elsevier.
3. **Chak, V.**, & Chattopadhyay, H. (2024). Effect of different processing technologies and sundry materials on worker health and safety. In *Comprehensive Materials Processing* (2nd ed., Vol. 8, pp. 58–67). Elsevier. <https://doi.org/10.1016/b978-0-323-96020-5.00100-x>
4. **Chak, V.**, & Chattopadhyay, H. (2024). Graphene reinforced nanocomposite coatings. In *Comprehensive Materials Processing* (2nd ed., Vol. 4, pp. 373–379). Elsevier. <https://doi.org/10.1016/b978-0-323-96020-5.00012-1>



Patents

1. **Vivek S. Ayar, Himanshu Khandelwal, Sunny Singhania, Anas Siddiqui, Akash Vyas, Prashant Swain, Sambit Parida and E. Hemachandran** has been granted a patent on Hybrid Heat Pipe Design for Enhanced Heat Transfer in Aerospace Applications. Design number: 6419873, Grant date: 31 January 2025, U.K.
2. Deepak Srivastava, Anil Kumar, Subrata Jana, Kavita Srivastava, Mohd. Rashid Khan, J R Jessy Michla, **Vivek S. Ayar** and R. Karthick has been granted a patent on Pyrolysis-Based Plastic Waste to Energy Conversion System. Application No. 202411032277A Publication Date: 10/05/2024 in The Patent Office Journal No. 19/2024 Dated 10/05/2024 (Published).

Industrial Services and Consultancy

Project Details

1. Experimental Work and Implementation of Smart Heat Treatment Technologies for Oil/Gas Fired Furnace.
Project Investigator (PI) - Dr. Vivek S. Ayar along with Dr. Himanshu Khandelwal
Name of the sponsor - Central Manufacturing Technology Institute (CMTI), Bengaluru
Status- Ongoing
2. Technology Development for the Manufacturing of Electrical Steel Thin Ring Profile Casting using Centrifugal Casting
Project Investigator (PI) - Dr. Vivek S. Ayar along with Dr. Himanshu Khandelwal
Name of the sponsor - TATA Steel, Jamshedpur
Status- Ongoing

Consultancy:

1. Technical Consultation and Process Optimization Services by Dr. Vivek S. Ayar along with Dr. K.K.Singh and Dr. Himanshu Khandelwal for Rashmi Metaliks Ltd., Kharagpur.
2. Capacity Building Program on Foundry, Forging, and Powder Metallurgy for Auto-Cluster Jamshedpur, Jharkhand by Dr. K.K.Singh Dr. Pavitra Singh, Dr. Himanshu Khandelwal and Dr. Anas Ahmad Siddiqui.
3. Establishing Technology for Higher Yield of Critical Castings- CFFP, Bhel Haridwar by Dr Himanshu Khandelwal.

Industrial Tour/Training

1. **Dr. Kulkarni Rahul Ramesh**, Keynote Speaker in International Symposium on Recent Advances in Materials Joining and Manufacturing Process held at Alva's Institute of Technology, Karnataka during 27th and 28th February 2025 on Exploring Deformation and Thermal Processing in Forging of Aluminum and Magnesium Alloys.

**Administrative Activities:**

1.	Dr. Kulkarni Rahul Ramesh	Worked as Coordinator and Member of Professional and Placement Development Center Management Committee, Member of Universal Human Value Cell, Member of Center of Excellence in Advanced Manufacturing Research, Innovation and Training (CoE-Amrit), Chairman of the committee evaluation of Industrial Internship Viva for B.Tech. Production and Industrial Engineering 5 th Semester students, Chairman of the committee evaluation of Industrial Internship Viva for B.Tech. Production and Industrial Engineering 5 th Semester students, Lab In-charge (Metallography Lab): Department of Foundry and Forge Technology, Lab In-charge (Mechanical Testing Lab): Department of Foundry and Forge Technology, worked as one of the speaker on Universal Human Values during Student Induction Program-2024, worked as Coordinator and Member of committee of allotment and evaluation of mini projects for B.Tech. Production and Industrial, worked as member for coordination and management of all technical events for Jinks Pranav-2025, worked as Member for Anti-Ragging duty for the odd semester in HJB hostel for first year B.Tech. as per allotment of HMC office,
2.	Dr Himanshu Khandelwal	Member of IT & networking Cell, Swayam Nodal Officer, Coordinator Website Content Management Committee, Social Media Champion NIAMT, Coordinator Grievance Redressal, Faculty-In-Charge SIMCORE Lab, Faculty In-Charge Smart Foundry Lab, Faculty In-Charge Design and Simulation Lab, Faculty In-Charge, Pattern Making Lab
3.	Dr. Manoj Kumar	Chairman- Library Committee, Chairman -Hostel Management & Advisory committee, Acting as a Head of the Department of Foundry & Forge Technology, Organizing secretary of ICAFFT 2024
4	Dr Anas Ahmad Siddiqui	Member of SFU, Member of IED cell, Tabulator for ADC Result, Faculty-In-Charge Powder Metallurgy Lab, Faculty-In-Charge Metallography Lab, Faculty-In-Charge Fluid Mechanics Lab, Member of Annual Report Committee 2024, Member for coordination and management of Jinks Pranav-2025, Member of CoE-AMRIT, Secretary Hospitality and Transport Committee for ICAFFT 2024, Member for organising Swachata Pakhwada 2024, Member for organising Sadhbhawana 2025, Member for organising sports events in Induction Program 2024, Member for Anti-ragging duty in First Year Hostel 2024.
5	Dr. Deepak Kumar	Member of the Security Management committee, Member of the Purchase Committee, Tabulator for ADC Result, Faculty-In-Charge Powder Metallurgy Lab, Faculty-In-Charge Heat Treatment Lab, Faculty-In-Charge Fluid Mechanics Lab, Faculty-In-Charge Universal Testing Machine Lab, Member for coordination and management of Jinks Pranav-2025, Treasurer for ICAFFT 2024, Technical Member for ICAFFT 2024, Member for Anti-ragging duty in First Year Hostel 2024.



6	Dr. Vineet Chak	Convenor for ICAFFT 2024, Chairman of Timetable committee of Institute, Member of Hospitality committee for ICAFFT 2024, Co-ordinator of ADC Courses, Faculty-In-Charge HIP Lab, Faculty-In-Charge Heat Treatment Lab, Faculty-In-Charge Mechanical Testing Lab, Member for Anti-ragging duty in First Year Hostel 2024, Member of B.Tech admission committee
7	Dr. Sunny Singhanian	HJB Hostel warden, member of Welfare/Reservation committee, member of Center of Excellence in Advanced Manufacturing Research, Innovation and Training (CoE-Amrit), member of Hospitality committee for ICAFFT 2024, secretary of financial management committee for ICAFFT 2024, member of registration committee for ICAFFT 2024, Faculty-In-Charge Machining Lab, Faculty-In-Charge NDT Lab

Seminar conferences organised/attended

1. ICAFFT 2024 - International Conference on Advances in Foundry & Forge Technology Organised by Department of Foundry & Forge Technology, NIAMT Ranchi on December 18-19 2024.

Chairman - Dr. K.K Singh

Organizing Secretary- Dr. Manoj Kumar

Convenor- Dr. Vineet Chak & Dr. Himanshu Khandelwal

Achievements:

1. PhD. supervised (Awarded in 2024): **One**
2. Dr. Kulkarni Rahul Ramesh: NPTEL (National Programme on Technology Enhanced Learning) Online Certification passed with Elite with AICTE Faculty Development Programme: Artificial Intelligence and Machine Learning in Materials Engineering, funded by MHRD India, July 2024-December 2024. (12 Weeks)
3. Dr Himanshu Khandelwal, "Executive Member – Academia" in Institute for Technological Excellence (ITEx Institute) – since 6th Feb, 2021



DEPARTMENT OF MECHANICAL ENGINEERING

(Formerly Department of Mechanical and Manufacturing Engineering)

ABOUT DEPARTMENT:

The Department was established in 1985 as the Department of Production Engineering. In 1991, it was renamed the Department of Manufacturing Engineering to facilitate the launch of undergraduate and postgraduate programmes recognized by AICTE. The M. Tech. in Manufacturing Engineering was introduced in 1991, followed by the B. Tech. in Manufacturing Engineering in 1992. In the academic year 2006-07, the department initiated doctoral research programmes (Ph.D.) in various areas of manufacturing engineering. Until 2018, Ranchi University, Ranchi, awarded degrees for all these programmes. From the 2018-19 academic session, the Institute came under the affiliation of the Jharkhand University of Technology (JUT), Ranchi.

During the 2020-21 academic session, the B. Tech. in Manufacturing Engineering programme was phased out and replaced with the B. Tech. in Mechanical Engineering. Consequently, in November 2020, the department was renamed the Department of Mechanical and Manufacturing Engineering. Later, effective January 1, 2025, it was reconstituted as the Department of Mechanical Engineering. The Department is equipped with laboratory facilities that are on par with leading technical institutions in India. These facilities support the academic and research training of undergraduate, postgraduate, and doctoral students, preparing them to meet the dynamic demands of technical excellence in mechanical and manufacturing engineering. At present, the Department operates a range of specialized laboratories, with ongoing efforts to establish additional facilities in line with evolving academic and research needs.

INCUMBENCY CHART OF HODS FROM 01-08-2011 TO 31-03-2025

SI No.	Name of the HoD	From	To
1	Mr. K.K. Verma	01-08-2011	31-07-2014
2	Dr. A.K. Pathak	01-08-2014	31-07-2017
3	Dr. Vijay Toppo	01-08-2017	31-07-2019
4	Dr. A.K. Sood	01-08-2019	30-09-2023
5	Dr. G. Rajamohan	01-10-2023	Continuing

Faculty:

S. No.	Name and Qualification	Designation
1	Dr. Sanjay Kumar B. Tech. (Met.), M. E. (Mech.), PhD (Ranchi Univ.), MIIF	Professor
2	Dr. Amitava Mandal B. Tech. (Mech.), M. Tech. (Prod.), PhD (IIT Delhi), MIIW	Professor
3	Dr. Ajai Kumar Pathak B. Sc. Engg. (Mech.), M. Tech. (Mech.), PhD (IIT Kharagpur), MIIW, MISTE, MIIM	Professor
4	Dr. G. Rajamohan B. E. (Mech.), M. E. (Manufacturing Tech.), PhD (IIT Madras)	Professor
5	Dr. Anoop Kumar Sood B. E. (Mech.), M. E. (Design), PhD (NIT Rourkela)	Professor

S. No.	Name and Qualification	Designation
6	Dr. Krishna Kumar Verma M.Sc. (Maths.), M.Phil. (Applied Maths.), PhD (Ranchi Univ.), MIIF	Associate Professor
7	Dr. V. M. S. Hussain B. E. (Mech.), M. E. (Prod.), PhD (IIT Kharagpur), MIIF	Assistant Professor
8	Dr. Ratnakar Das AMIE (Mech.), M. E. (Prod.), PhD (IIT Guwahati)	Assistant Professor
9	Dr. Sambit Kumar Parida AMIE (Mech.), M. Tech. (Mech.), PhD (IIT Bhubaneswar)	Assistant Professor
10	Dr. Anand Mohan Murmu B. Tech. (Prod.), M. Tech. (Mfg. Sc. & Engg.), PhD (IIT-ISM Dhanbad)	Assistant Professor
11	Mr. Subrato Kumar Soren B. E. (Mech.), M. E. (Thermal Engg.)	Assistant Professor
12	Dr. Jagesvar Verma B. Tech. (Mech.), M. Tech. (Manufacturing Tech.), PhD (VNIT Nagpur)	Assistant Professor
13	Dr. Umesh Khandey B. E. (Mech.), M. Tech. (Mech.), PhD (IIT Delhi)	Assistant Professor
14	Dr. Aruna Thakur B. Tech. (Mech.), M. Tech. (Mech.), PhD (NIT Rourkela)	Assistant Professor
15	Dr. Prasant Kumar Swain B.Tech.(Mech.), M.Tech.(Design), PhD (IIT Kharagpur)	Assistant Professor
16	Dr. Lokeswar Patnaik B.Tech. (Mech.), M.Tech. (Manufacturing), PhD (NIT Silchar)	Assistant Professor

FACILITY DEVELOPMENT

- Development of HOD office and department seminar room (Ongoing).

ACTIVITIES:

Academic Activities

The total number of subjects offered to B.Tech Mechanical Engineering was 30. Faculties of the department were involved in guiding Seminars and Projects of B. Tech, M. Tech, and PhD scholars besides their normal classes for long term courses.

Publications

Journals:

1. Sharma, A., Pandey, K., & Sood, A. K. (2024). Fuzzy logic based model to predict surface roughness of Si (100) wafer using preliminary experimental data obtained from single pole magnetic abrasive finishing process. *Silicon*, 16(10), 4199-4212. <https://doi.org/10.1007/s12633-024-02986-x>
2. Ayar, V. S., Khandelwal, H., Parida, S. K., Shah, M. J., Vyas, A. V., Barot, R. P., & Sutaria, M. P. (2025). Design and development of IoT enabled modular melting, pouring, and, stirring system for casting of non-ferrous alloys and sustainable aluminum matrix composites (AMCs). *International Journal on Interactive Design and Manufacturing (IJIDeM)*, 19(6), 4149-4163. <https://doi.org/10.1007/s12008-024-02028-1>



3. Sharma, A., Pandey, K., & **Sood, A. K.** (2024). Surface finish enhancement of Si(100) with single pole magnetic abrasive finishing using chemical oxidizers and alumina slurry. *Silicon*, 16(10), 4557–4576. <https://doi.org/10.1007/s12633-024-03018-4>
4. Kumar, S., Ahijith Kumar, P. V., Bharati, K., **Patnaik, L.**, Ranjan Maity, S., & Łepicka, M. (2025). Coating material selection for bulk metal forming dies: A MEREC-integrated approach with multiple MCDM methods. *International Journal on Interactive Design and Manufacturing (IJIDeM)*, 19(6), 4055-4070. <https://doi.org/10.1007/s12008-024-01983-z>
5. Singh, A., **Thakur, A.** & Gangopadhyay, S. (2025). Influence of MoS₂-Based Nanofluid Minimum Quantity Lubrication on Machining Performance of AISI 316L Stainless Steel. *Journal of Materials Engineering and Performance* 34, 5184–5195. <https://doi.org/10.1007/s11665-024-09454-y>
6. Venkatesh, V. S. S., Ganji, P. R., Kumar, S., & **Patnaik, L.** (2025). Optimization of spark plasma sintered parameters of Al–SiC–kaolin hybrid composite using Taguchi–grey relational analysis. *Bulletin of Materials Science*, 48(1), 22. <https://doi.org/10.1007/s12034-024-03378-y>
7. Prakash, O., Chandrakar, R., **Verma, J.**, & Jaiswal, A. (2024). Laser cladding technology for high entropy alloys: effect and applications. *Materials Research Express*, 11(9), 096510. DOI: 10.1088/2053-1591/ad75e8
8. Bodduru, K., Kassa, M. K., **Patnaik, L.**, & Singh, L. K. (2024). Investigating the effect of MXene reinforcement on the mechanical and vibrational behaviour of honeycomb core sandwich composite structures. *Diamond and Related Materials*, 149, 111583. <https://doi.org/10.1016/j.diamond.2024.111583>
9. **Verma, J.**, & Taiwade, R. V. (2024). Welding Scope, Application, and Opportunities. *Advanced Welding Techniques*, 1-21. DOI: 10.1201/9781003435884
10. Ahijith Kumar, P. V., **Patnaik, L.**, Bharati, K., Venkatesh, V. S. S., & Kumar, S. (2024). Investigating tool wear rate and surface quality of hardened tool steel: A fuzzy-MARCOS analysis and response surface methodology study. *International Journal on Interactive Design and Manufacturing (IJIDeM)*, 18(6), 4137-4158. <https://doi.org/10.1007/s12008-024-01950-8>
11. Majumder, S., Thakur, P., & **Thakur, A.** (2025). Solar Energy and Environmental Application. In *Renewable Energy Development: Technology, Material and Sustainability* (pp. 43-66). Singapore: Springer Nature Singapore. https://doi.org/10.1007/978-981-97-9626-7_3
12. Bhagat, K. C., Kumar, A., **Thakur, A.**, & Gangopadhyay, S. (2024). Analysis of cutting forces and surface quality during micro milling of AZ31B magnesium alloy. *The International Journal of Advanced Manufacturing Technology*, 134(7), 3465-3480. <https://doi.org/10.1007/s00170-024-14315-y>
13. Thakur, P., **Thakur, A.**, & Majumder, S. (2024). Biomass Vulnerability to Irradiation-Based Treatment for Biorefinery Application: Analytical Techniques for Mechanistic Understanding. In *Sustainable Radiation Technologies in Waste-biomass Valorization: Greener Energy and High-Value Product Generation* (pp. 77-116). Cham: Springer Nature Switzerland. https://doi.org/10.1007/978-3-031-63941-8_4
14. Thakur, P., Majumder, S., & **Thakur, A.** (2024). Microalgae Synthesis for Biodiesel Production. In *Sustainable Clean Energy Production Using Waste Biomass: Sustainable Energy Production and Utilization* (pp. 273-298). Singapore: Springer Nature Singapore. https://doi.org/10.1007/978-981-97-0840-6_11
15. Kumar, S., **Das, R.**, & **Parida, S. K.** (2024). Tensile and flexural strength Evaluation of Cenosphere and Sabai grass (*Eulaliopsis binata*) reinforced composite. *Journal of Technology*, 12(4), 419–431. <https://doi.org/10.15001/JOT.2024/V12I4.24.3179>
16. Kumar, S., **Das, R.**, & **Parida, S. K.** (2024). A study on drilling performance of fabricated sabai fiber (*Eulaliopsis binata*) /epoxy composite laminates. *International Journal on Interactive Design and Manufacturing (IJIDeM)*, 19(6), 4085–4101. <https://doi.org/10.1007/s12008-024-01993-x>



17. **Parida, S. K., Murmu, A. M., Hari, V., Ayar, V. S., & Das, R.** (2024). 3D FE adhesion failure analyses of adhesive bonded single lap joint made with functionally modulus graded curved adherends. *International Journal on Interactive Design and Manufacturing (IJIDeM)*, 19(6), 4103–4112. <https://doi.org/10.1007/s12008-024-01991-z>
18. Kumar, S., **Das, R., & Parida, S. K.** (2025). Evaluation of Mechanical Properties of Sabai Grass (*Eulaliopsis binata*) Fibers and Epoxy Resin Composite Laminates Using Fly Ash as Filler Material. *Journal of Composites Science*, 9(1), 38. <https://doi.org/10.3390/jcs9010038>
19. Kumar, S., **Das, R., & Parida, S. K.** (2025). Effect of surface modification and water absorption on mechanical properties of Sabai grass (*Eulaliopsis binata*) fibers/epoxy composites. *Proceedings of the Institution of Mechanical Engineers Part C Journal of Mechanical Engineering Science*, 239(14), 5518–5533. <https://doi.org/10.1177/09544062251329753>

Patents:

1. **Lokeswar Patnaik**, Sunil Kumar and Saikat Ranjan Maity. “Polishing set-up on vertical milling machine: An alternate to metallographic polishing machine” Patent No. IN 541276, Date of grant: Jun 10, 2024, Intellectual property of India.
2. **Lokeswar Patnaik** and Sunil Kumar “Smart Lubrication System for Lathe” Design Application: 430266-001, Date of issue: 11/2024, Intellectual property of India.
3. Sunil Kumar, **Lokeswar Patnaik** and Saikat Ranjan Maity “Magnetic Door Stopper” Design Application: 419156-001, Date of issue: 07/2024, Intellectual property of India.
4. **Lokeswar Patnaik**, Anees CP, P Sunilkumar, Jatin Gajjar and Sunil Kumar. “Mold with heating coil for fabrication of polymer composite”, Design No. 389615-001, Date of issue: Apr 4, 2024, Intellectual property of India.
5. Rahul, Venkata Naga Lakshmi Durga, **Ratnakar Das**, Jai Prakash and Rohit Agrawal, “Pipe fastener”, Design No: 435040-001, Date of issue: 27/12/2024, Intellectual property of India.
6. **Ratnakar Das**, Venkata Naga Lakshmi Durga and Debdas Roy, “Cost effective paper bag production machine” Design No: 437179-001, Date of issue: 26/02/2025, Intellectual property of India.
7. Vivek Ayar, Himanshu Khandelwal, Sunny Singhania, Anas Ahmad Siddiqui, Akash Vyas, **Prasant Kumar Sawin, Sambit Parida** and E. Hemachandra, “Hybrid Heat Pipe Design for Enhanced Heat Transfer in Aerospace Applications” Design No.: 6419873, Certificate of Registration for a UK Design.

Book Published:

1. Behera, R. K., **Das, R.**, Samal, B. P., & Mahapatra, R. N. (n.d.). *Flexible manufacturing system* [Translated]. IIIP. ISBN: 978-93-6252-611-3

Other Academic Activities:

1. **Dr. Anoop Kumar Sood** is in Top 1% of most cited scientist in the world, Web of Science in 2024-25.
2. **Dr. Anoop Kumar Sood** is in Top 2% of most cited scientist in the world, Stanford University in 2024-25.
3. **Dr. Ratnakar Das** has organized Four-days Hands-on Workshop training program on the Computational Fluid Dynamics from 30th Sep to 4th Oct 2024 for undergraduate Mechanical Engineering students.
4. **Dr. Anoop Kumar Sood** was the External examiner of PhD thesis evaluation and defence seminar of Mr. Veeranaath V defending his PhD thesis titled “Synthesis and Characterization of Aegle Marmelos Natural Polymer Reinforced Aluminium Composites” at SRM Institute of Science and Technology, Katankuathur, Tamilnadu



5. Mr. Nitinjay Kumar and Mr. Robin Murmu from Sarala Birla University has undergone summer internship under the guidance of **Dr. Lokeswar Patnaik** at the Department of Mechanical Engineering.
6. **Dr. Anoop Kumar Sood** was the External examiner MTech Project evaluation of Mechanical Engineering Branch Students, Specialization Production, NIT Rourkela, Rourkela.
7. **Dr. Lokeswar Patnaik** underwent Malviya Mission Teacher Training Programme on “Nurturing Future Leadership” at IIT (ISM) Dhanbad from 21st Oct to 25th Oct 2024.
8. **Dr. Ratnakar Das** underwent industrial training covering Materials Selection for high-temperature application, boiler design, and waste heat recovery at Pressels Private Limited, Cuttack from 3rd June to 25th June 2024.
9. **Dr. Anoop Kumar Sood** is a Member Advisory Board of STPI for the state of Jharkhand in 2024-25.
10. **Dr. Ratnakar Das** underwent AICTE Training and Learning (ATAL) Academy Faculty Development Program on Digital Manufacturing Technology at National Institute of Advanced Manufacturing Technology from 2nd Dec to 7th Dec 2024.
11. **Dr. Lokeswar Patnaik** is a Review editor for the journal ‘Frontiers in Mechanical Engineering’.
12. **Dr. Anoop Kumar Sood** is a Member, Academic Council, NIAMT, Ranchi.
13. Mr. Shambhu Kumar was awarded PhD degree under the supervision of **Dr. Ratnakar Das**.
14. **Dr. Anoop Kumar Sood** is a Member, Board of Studies, Department of Automobile Engineering, BIT Polytechnic.

Administrative Assignments:

Faculty members of the department were engaged in various administrative activities.



DEPARTMENT OF MATERIALS AND METALLURGICAL ENGINEERING

ABOUT DEPARTMENT:

The Materials and Metallurgical Engineering Department was established in 1998, and the department has emerged as a powerhouse for academics, scientific research and cutting-edge technologies. With time, the department has grown noticeably and established new areas of research and teaching in materials engineering, while retaining its strength in traditional areas in metallurgy. The department attracts highly qualified faculty members by virtue of its infrastructure and research environment. The department is actively involved in research by inviting experts from many nearby industries such as Tata Steels, Usha Martin, Vedanta, Murugappa and Research Institute like RDCIS, SAIL, and NML etc. A reasonable number of consultancy projects are being carried out by the department. The department of MME has been dedicated in inculcating its students to make them world class engineers, creating outstanding research environment and giving the nation a direction for tomorrow in the Materials and Metallurgical Engineering sectors. The faculty members, students and staffs have been continuously putting their best to incorporate their contribution in the mentioned activities.

INCUMBENCY CHART OF HODS FROM 01-08-2011 TO 31-03-2025

SI No.	Name of the HoD	From	To
1	Dr. Binod Kumar	01-08-2011	31-07-2014
2	Mr. B. Mallik	01-08-2014	31-07-2017
3	Dr. G. Das	01-08-2017	31-07-2019
4	Dr. D. Roy	01-08-2019	31-01-2022
5	Dr. Binod Kumar	01-02-2022	30-06-2024
6	Dr. Ghanshyam Das	01-07-2024	Continuing

FACULTY:

S. No.	Name and Qualification	Designation
1	Dr. Binod Kumar PhD (IIT Kharagpur)	Professor
2	Dr. Debdas. Roy PhD (IIT Kharagpur)	Professor
3	Dr. Ghanshyam Das PhD (IIT Bombay)	Professor
4	Dr. Banshidhara Mallik PhD (Ranchi University)	Associate Professor
5	Dr. Chinmoy Chattopadhyay PhD (IIT Kanpur)	Assistant Professor
6	Dr. Ratnesh Kr. Gupta PhD (Brown University, USA)	Assistant Professor
7	Mr. Koushik Sikdar M.Tech (IIT Kanpur)	Assistant Professor
8	Dr. Tapabrata Maity PhD (IIT Kharagpur)	Assistant Professor



S. No.	Name and Qualification	Designation
9	Dr. Vaishali Poddar PhD (College of Engineering, Pune / Savitribai Phule Pune University)	Assistant Professor
10	Dr. Chandra Sekhar Kommalapati PhD (IIT Bombay)	Assistant Professor
11	Dr. Riya Mondal PhD (IIT Bombay)	Assistant Professor
12	Dr. Debasish Chatterjee PhD (IIT Roorkee)	Assistant Professor (on contract) Joining Date: 15/01/2025
14	Dr. Ankita Bhattacharya PhD (IIT Kharagpur)	Assistant Professor (on contract) Joining Date: 06/01/2025
15	Dr. Vasundhara Singh PhD (IIT Kharagpur)	Assistant Professor (on contract) Joining Date: 15/01/2025

ACTIVITIES

Academic Activities:

Number of subjects offered by the department:

Sr. No	Name of Course	No. of Subjects Offered
1	B. Tech.	43
2	M. Tech.	14

Publications

Journal Articles:

- Sikdar, K., Mahata, A., Chattopadhyay, C., Roy, D., & Mitra, R.** (2025). Effective retention of nanocrystalline microstructure and superior mechanical properties at high temperature ($\sim 0.75 T_m$) via doping of Boron into AlCoCrCuFeNi high entropy alloy. *Materials Characterization*, 219, 114647. <https://doi.org/10.1016/j.matchar.2024.114647>
- Khobragade, N., & Roy, D.** (2025). A review on Advancement in mechanical and structural properties of graphene reinforced aluminium matrix composites. *Zeitschrift Für Metalkunde: International Journal of Material Research*, 116(2), 65–80.
- Sikdar, K., Mahata, A., Chattopadhyay, C., Roy, D., & Mitra, R.** (2025). Influence of Y (yttrium) doping on thermal stability of nanocrystalline AlCoCrCuFeNi high entropy alloy. *Intermetallics*, 179, 108638. <https://doi.org/10.1016/j.intermet.2025.108638>
- Roy, D., Pal, T., Ajay, S., Prakash, A., Dutta, S., & Maity, T.** (2024). Improving strain hardening behavior in nano-intermetallic reinforced aluminum in-situ composites through an optimized twostep thermal processing method; sintering and uniaxial forging. *Journal of Alloys and Compounds*, 982, 173688. <https://doi.org/10.1016/j.jallcom.2024.173688>
- Chahar, S., Pal, T., Roy, D., & Maity, T.** (2024). Aging-Assisted grain boundary engineering and its impact on the deformation behavior in precipitation hardenable multicomponent MG-10SN-3AL-1SI alloy. *Journal of Materials Engineering and Performance*, 34(4), 3056–3063. <https://doi.org/10.1007/s11665-024-09282-0>
- Kumar, N., Mallik, B., & Kulkarni, R. R.** (2025). Modification of dye/fluorescent penetrant testing in accordance with Industry 4.0. *Materials Research Proceedings*, 55, 40–44. <https://doi.org/10.21741/9781644903612-7>



7. Singh, P., Hemachandran, E., Prasad, U., Singh, K. K., & **Mallik, B.** (2025). Numerical analysis of a gas-solid vortex dryer integrated with a waste heat recovery system. *Journal of the Taiwan Institute of Chemical Engineers*, 171, 106037. <https://doi.org/10.1016/j.jtice.2025.106037>
8. Gunti, A., **Maity, T.**, & Das, J. (2024). Size Effect in Ultrafine Ti-Fe-(Sn) Lamellar Composites during Micro- and Nanoindentation. *Journal of Materials Engineering and Performance*, 34(5), 4160–4168. <https://doi.org/10.1007/s11665-024-09364-z>
9. Choudhary, I. N., Kumar, V., **Gupta, R. K.**, Sinha, N. K., & Singh, J. K. (2024). Development and characterization of FE500S TMT Rebars. *Indian Journal of Engineering and Materials Sciences*, 31(02), 270–275. <https://doi.org/10.56042/ijems.v31i2.1515>
10. Kumar, S., **Gupta, R. K.**, & Jha, B. K. (2024). An improved inclusions modification strategy through Barium-Alloyed cored wire injection in steel refining. *Journal of Failure Analysis and Prevention*, 24(4), 1828–1842. <https://doi.org/10.1007/s11668-024-01966-y>
11. Kumar, S., **Gupta, R. K.**, & Jha, B. K. (2024). Synergistic effect of calcium and barium on non-metallic inclusions modification and improvement in steel cleanliness. *Transactions of the Indian Institute of Metals*, 77(9), 2601–2612. <https://doi.org/10.1007/s12666-024-03351-7>
12. **Poddar, V. S.**, Dhokey, N. B., Kadam, A., Sangale, R., Kumar, T., & Singh, S. (2024). Synthesis of AlCrFeMnX-based high-entropy alloys using powder metallurgy and their investigation through thermodynamic perspective. *Journal of Materials Research/Pratt's Guide to Venture Capital Sources*, 39(24), 3436–3447. <https://doi.org/10.1557/s43578-024-01481-8>
13. Kulkarni, R. R., & **Poddar, V.** (2025). Impact of cold upset forging during heat treatment in Al-1.1Si-0.97Mg alloy. *Engineering Research Express*, 7(1), 015407. <https://doi.org/10.1088/2631-8695/ada3b1>
14. **Sekhar, K. C.** (2024). Change in deformation mechanism to change TRIP to TWIP strengthening in the class of 304 austenitic stainless steel sheets by trapezoidal wavy-rolling process. *Advances in Materials and Processing Technologies*, 11(2), 1122–1135. <https://doi.org/10.1080/2374068x.2024.2364985>
15. Panov, D., Kudryavtsev, E., Chernichenko, R., Naumov, S., **Sekhar, K. C.**, Stepanov, N., Zhrebtssov, S., Salishchev, G., & Pertsev, A. (2025). Significantly enhanced mechanical properties of metastable austenitic stainless steel with large-scale gradient structure. *Materials Science and Engineering A*, 927, 147975. <https://doi.org/10.1016/j.msea.2025.147975>
16. **Bhattacharya, A.**, Barik, R. K., Ghosh, A., Patra, S., Sen, M., Das, A., Mitra, R., & Chakrabarti, D. (2024). Relative influence of microsegregation and structural unit size on the strength-impact toughness properties of an armor grade steel. *Materials Science and Engineering A*, 901, 146501. <https://doi.org/10.1016/j.msea.2024.146501>

Book Chapters:

1. **Roy, D.** (2024). Fabrication of bulk components from mechanically alloyed powders. In *Powder Metallurgy and Additive Manufacturing: Fundamentals and Advancements* (pp. 51–72). ASM International. <https://doi.org/10.31399/asm.tb.pmamfa.t59400051>
2. **Poddar, V.** (2024). Thermoelectric Ceramics: Multidimensional renewable materials. In *Advanced Ceramics Materials: Emerging Technologies*. IntechOpen. <https://doi.org/10.5772/intechopen.1007971>

Conference Publications/Presentations:

1. **K. Chandra Sekhar, Ghanshyam Das, Ratnesh Kumar Gupta, L. Sankara Rao.** *Sulphide Precipitation and Distribution in 430 Ferritic Stainless Steels by Different Heat Treatment Processes*. Presented at **International Conference on Advances in Process Technologies of Flat Steel Product (APT-FS 2024)**, Bokaro Steel City, India, 20–21 September 2024.
2. **Ratnesh Kumar Gupta, Ghanshyam Das.** *Influence of the phases in the corrosion behaviour of F55 super*



duplex stainless steel. Presented at **International Conference on Structural Integrity and Interactions of Materials in Civil Engineering Structures**, SRM University, Sonepat, India, 21–24 May 2024.

3. Rajiv Kumar Goel, Rohit Agarwal, Niyant Goel, **K. Chandra Sekhar**. *Failures of Hot Rolled Flat Steel Product by Undesirable Metallurgical Constituents (δ/γ) Interaction and Casting Defects*. Oral presentation at **International Conference on Advances in Process Technology of Flat Steel Product (APT-FS 2024)**, Bokaro Steel City, India, 20–21 September 2024.
4. Mohd Siddique, Santosh Kumar Singh, F. U. Khan, Rajiv Goel, **K. Chandra Sekhar**. *Effect of strain rate on newly developed manganese stabilized austenitic stainless steels to make suitability for rolling and forging applications in manufacturing industries*. Oral presentation at **International Conference on Advances in Future Forming Technologies (ICAFFT 2024)**, NIAMT Ranchi, India, 18–19 December 2024. (Souvenir, Page 32).
5. G. D. Walasange, **B. Mallik** “Recent advances in additive manufacturing for bone tissue engineering,” presented at the ICAFFT 2024 (organized by Dept of FFT, NIAMT & IEI), NIAMT, Ranchi, Dec. 18–19, 2024.

Patents:

1. Gurudas Mandal, **Debdas Roy**, Swarup Kumar Ghosh, Snehanshu Pal, Sandip Kumar. *Machine Learning System for Developing Carbide Free Bainitic Steel*. **Indian Patent No. 429217-001**. Application Date: 03/09/2024. Grant Date: 07/11/2024.
2. Ratnakar Das, Venkata Naga Lakshmi Durga, **Debdas Roy**. *Cost effective paper bag production machine*. **Indian Patent No. 437179-001**. Application Date: 13/11/2024. Grant Date: 06/02/2025.
3. Sanjoy Chatteraj, **Debdas Roy**, Swarup Kumar Ghosh, Arijit Sinha, Apurba Das, Gurudas Mandal, Rahul Samanta, Sandip Kumar, Shamim Haidar. *Silica Coated Melting Oven for Production of Metal Artifacts*. **Indian Patent No. 409157-001**. Application Date: 29/02/2024. Grant Date: 26/04/2024.
4. Gurudas Mandal, **Debdas Roy**, Swarup Kumar Ghosh, Arijit Sinha, Apurba Das, Sandip Kumar. *Carbon Coated Face Mask*. **Indian Patent No. 411989-001**. Application Date: 29/03/2024. Grant Date: 16/05/2024.
5. **Vaishali Sushil Poddar**. *Aluminium – Graphene Based Composite and Method for Synthesis Thereof*. **Indian Patent Application No. 202431088457 (TEMP/E1/101563/2024-KOL)**. Filed: 15 November 2024.

Sponsored/Ongoing Projects:

1. AICTE IDEA-Lab. Funding Agency: AICTE. Amount: ₹60 Lakhs. Role: Co-PI (**Dr. Debdas Roy**).
2. *Reduction in Voltage Drop at the Joint of Steel Stub-Cast Iron Collar-Carbon Anode for Aluminium Smelter*. Sponsored by Vedanta Ltd., 2024–2027. Amount: ₹6.67 Lakhs. Role: Co-PI (**Dr. K. Chandra Sekhar & Dr. Vaishali Sushil Poddar**).
3. *Investigation of defects forming in plate and sheet products of stainless steels and development of steel making process*. Sponsored by Rimjhim Stainless Steel Ltd., Kanpur, UP. Role: Co-PI (**Dr. K. Chandra Sekhar**).

Faculty Development Programs/Trainings/Courses/Short Term Course:

1. **Dr. Debdas Roy**, Department of Higher Education Ministry of Education, Govt. of India sponsored Malaviya Mission Teacher Training Program on “**Nurturing Future Leadership Program**” (6th to 10th January 2025) Organized by Indian Institute of Management, Visakhapatnam
2. **Dr. Vaishali Sushil Poddar**, NPTEL courses completed: Carbon Materials and Manufacturing (64%, 2024)
3. **Dr. Vaishali Sushil Poddar**, National Initiative for Technical Teachers Training Courses on Swayam-NPTEL portal: 8 Modules (Qualified, 2024).

4. **Dr. Vaishali Sushil Poddar**, Department of Electronics and Computer Engineering, NIAMT. *Python-Powered AI: Transforming Industries with Intelligent Solutions*. Hybrid workshop held at National Institute of Advanced Manufacturing Technology, Ranchi, December 16-20, 2024.
5. **Dr. K. Chandra Sekhar** National Initiative for Technical Teachers Training Courses on Swayam-NPTEL portal: 8 Modules (Qualified, 2024).
6. **Dr. K. Chandra Sekhar**, successfully completed five days short term course on “Green Steel” held from 14/02/25-18/02/25 at NIT Durgapur.
7. **Dr. Riya Mondal & Dr. K. Chandra Sekhar**, successfully completed five days short term course on “Green Steel” held from 14/02/25-18/02/25 at NIT Durgapur.

Achievements/Awards:

1. **Dr. Vaishali Sushil Poddar** received the **1st prize** in inter-hostel competition under Swachata Pakhwada – 2024 organized within the NIAMT campus from 18th September – 2nd October 2024

Invited Talks Delivered:

1. **Dr. Vaishali Sushil Poddar**, Topic: “X rays in Materials and Mechanical Engineering Perspective” delivered in One Week hands-on Training Program on “X-Ray Diffraction Techniques for Material Characterization and Data Interpretation” organized by Central Instrumentation Facility (CIF), BIT Mesra in association with IR Technology Pvt. Ltd during 3rd March to 7th March 2025.

Short term course organized:

AICTE Training and Learning (ATAL) Academy Sponsored Faculty Development Programme (FDP) on “Digital Manufacturing Technology” From 02/12/2024 to 07/12/2024 (**Dr. Debdas Roy**)

Foreign Visits:

1. **Dr. Debdas Roy**, Visited O.V. Roman Powder Metallurgy Institute, Minsk, Belarus under India-Belarus Bilateral Research, Project (DST Grant no. DST/INT/BLR/P-44/2023 (G) Dated 31.07.23. From 3rd June 2024 to 17th June 2024.

Seminar and Workshop Organized:

1. ANRF (SERB)-INAE Conclave 2025 on “**Atmanirbhar Technologies-Engineering Secure Future**” 21st -22nd March 2025 (Coordinator **Dr. Debdas Roy**)
2. Organized one day Seminar on “**Green Steel Production**” delivered by **Mr. Keith Vining: Director & Research Group Leader Carbon Steel Materials, CSIRO Mineral Resources, Australia**, 21st Feb 2025 by MME Department.



**Administrative Assignments:**

Sr. No.	Full Name	Administrative Assignment
1	Dr. Ghanshyam Das	1. Faculty Lab-Incharge Thermal Analysis and Corrosion and Degradation laboratory
2	Dr. Debdas Roy	1. INSPIRE Faculty Fellowship Selection Committee member pertaining to Chemical Sciences, DST, Govt of India 2. Member Board of Studies (BOS) Central University of Jharkhand, Ranchi 3. UGC-NEP Nodal Officer 4. Senior Individual Member Indian National Academy of Engineering (INAE) 5. Faculty Lab-Incharge Powder Metallurgy and Ceramic Laboratory
3	Dr. Banshidhara Mallik	1. Chairman, Pest control Committee. 2. Faculty Lab-Incharge Non Destructive Test laboratory 3. Departmental Representative for Student Induction Program 2023-24, MME Department
4	Dr. Chinmoy Chattopadhyay	Faculty Lab-Incharge Computational and modelling laboratory
5	Dr. Ratnesh Kumar Gupta	1. Lab incharge for Heat treatment laboratory and Mechanical testing laboratory and Micro hardness testing lab 2. Member Board of Studies (BOS) 3. Chairman of SMC
6	Dr. Tapabrata Maity	1. Faculty Lab-Incharge Melting and Solidification and Welding Metallurgy laboratory
7	Mr. Koushik Sikdar	1. Faculty Lab-Incharge Thermal Analysis laboratory



Sr. No.	Full Name	Administrative Assignment
8	Dr. Vaishali S Poddar	Institute Level: 1. Nodal Officer – Solar Project – PM Surya Yojana 2. Warden – Kalpana Chawla Chatrawas 3. Member of Hostel and Mess / Canteen Management Committee 4. Co-ordinator – CAS promotion scheme 5. Mentor – NIAMT students 6. Member - Institute Ranking and Accreditation Committee 7. Stage Preparation Committee Member, Jinks – Students Gathering 8. Member - ANRF-INAE 2025, ANRF (SERB) – INAE Conclave on Atmanirbhar Technologies – Engineering Secure Future , 21-23 March 2025
		Department Level: 1. Member and Co-ordinator – B. Tech. Comprehensive Viva Voce 2. Member - scrutiny committee for M.Tech. student admission 3. Chairman – Syllabus Committee 4. Lab In-charge - Metal Forming Laboratory 5. Lab In-charge - Metals Characterization Laboratory
9	Dr. K Chandra Sekhar	1. Faculty Lab-Incharge Mineral Dressing Laboratory 2. Departmental Representative for Annual Report 2023–24 (MME Department) 3. Participated in Spardha, IIT (BHU)'s annual sports festival held from 16th–21st October 2024 4. Advertisement Committee Member: Involved in organizing Zinks–Pranav 2025 student cultural fest. 5. Member – B.Tech. Comprehensive Viva Voce 6. Member - scrutiny committee for M.Tech. student admission



Sr. No.	Full Name	Administrative Assignment
10	Dr. Riya Mondal	1. Faculty Lab-Incharge Metallography laboratory and Metallography and Optical Microscopy laboratory Student Accompanied with Dr. Riya Mondal 2. Participated in Spardha, IIT (BHU)'s annual sports festival held from 16th–21st October 2024 3. Time-Table Committee Member (MME Department) 4. Secretary, Syllabus Committee (MME Department): For the 2023–27, 2024–28, and 2025–29 batches. 5. Departmental Representative for Annual Report 2023–24 (MME Department) 6. Departmental Representative for Student Induction Program 2023–24, MME Department 7. Cultural event Committee Member: Involved in organizing Zinks–Pranav 2025 student cultural fest. 8. Member – B.Tech. Comprehensive Viva Voce 9. Member - scrutiny committee for M.Tech. student admission 10. Faculty In charge: SAMPLE PREPARATION Laboratory (CIF)
11	Dr. Vasundhara Singh	Coordinator – Syllabus Committee MME department



DEPARTMENT OF APPLIED SCIENCES AND HUMANITIES & DEPARTMENT OF ENVIRONMENTAL ENGINEERING

ABOUT DEPARTMENT OF APPLIED SCIENCES AND HUMANITIES:

The Department of Applied Sciences and Humanities was established in 2006 with the broad interest to provide foundational courses at UG level. The department has started two-year full-time course in M.Tech. Environmental Engineering in 2007 and M.Tech Material Engineering (Nanotechnology) in 2024, to cater the specific requirement of the industries. It provides excellent laboratory facilities for both undergraduate and post graduate students. The department comprises of faculty members from Physics, Chemistry, Mathematics, Environmental Engineering and Humanities. The department also offers Ph.D. programme in various disciplines. Department of Environmental Engineering emerged from the Department of Applied Sciences and Humanities in March 2025.

Specialisation of faculty members includes experimental condensed matter physics, synthesis and applications of organic polymers/composites, membrane technology and its applications, thin film technology, industrial wastewater material utilization, wastewater remediation, graph theory, power system planning and optimization.

The department has received research funding from government organisations and has developed collaboration with international and national laboratories. Our students are placed in various government organisations and many of our alumni occupy important positions in the academia, research and industry in India as well as abroad.

ABOUT DEPARTMENT OF ENVIRONMENTAL ENGINEERING :

The Department of Environmental Engineering has been constituted by restructuring the existing Department of Applied Sciences and Humanities vide office order No. 635/2024-25 dated 25th March 2025. To better address the escalating challenges of environmental protection, public health, and sustainable resource management, the Institute has elected to create a dedicated Department of Environmental Engineering. Allocation of faculty, faculty sitting room, laboratories etc. required for the new department will be transferred from the Department of Applied Sciences and Humanities.

All activities of the Department of Environmental Engineering will be under the supervision of HoD of the Department of Applied Sciences and Humanities. Both departments will have common HoD office.

INCUMBENCY CHART OF HODS FROM 01-08-2011 TO 31-03-2025

Sl No.	Name of the HoD	From	To
1	Dr. P. Talukdar	18-07-2010	17-07-2012
2	Dr. S.R. Kumar	18-07-2012	29-11-2015
3	Dr. Anil Kumar	30-11-2015	26-12-2017
4	Dr. S.R. Kumar	27-12-2017	26-12-2019
5	Dr. Arvind Pandey	27-12-2019	31-01-2022
6	Dr. S.R. Kumar	01-02-2022	30-06-2024
7	Dr. Anil Kumar	01-07-2024	Continuing



Faculty

S. No.	Name and Qualification	Designation
1.	Dr. Anil Kumar M.Tech (Surface Sci. and Engg.), Ph.D. (Metallurgy and Materials Engg.)	Professor and Head
2.	Dr. S. R. Kumar Ph.D. (Material Sciences)	Professor
3.	Dr. Arvind Pandey Ph.D. (Physics)	Professor
4.	Ms. Sujata S. Gupta M.A. (English)	Assistant Professor
5.	Dr. Partha Sarathi Mandal Ph.D (Physics)	Assistant Professor
6.	Dr. Subhankar Basu M. Tech. (Environmental Engg.), Ph.D. (Biochemical Engg.)	Assistant Professor
7.	Dr. Sriparna Chattopdhyay Ph.D. (Mathematics)	Assistant Professor
8.	Dr. H. Vignesh Babu Ph.D. (Chemistry)	Assistant Professor
9.	Dr. Abhilash T. Nair Ph.D. (Civil-Environmental Engg.)	Assistant Professor
10.	Dr. Sumbul Rahman Ph.D. (Chemistry)	Assistant Professor
11.	Dr. Khushboo Ph.D. (Humanities-English)	Assistant Professor
12.	Dr. Nilima Das Ph.D. (Mathematics)	Assistant Professor
13.	Dr. Vandana Ph.D. (Mathematics)	Assistant Professor

Academic activities

Academic Activities: Subjects offered

Sr. No	Name of Course	Specialisation/Branch	No. of Subjects Offered
1	B. Tech.	Basic Sciences and Humanities courses for Semester I, II and III of all branches	28
2	M. Tech.	Environmental Engineering Material Engineering (Nanotechnology)	12 12
3.	Ph.D.	Physics, Chemistry, Mathematics, Environmental Engineering and English	

Journal Publications

1. **Chattopadhyay, S.**, Patra, K. L., & Sahoo, B. K. (2024). On vertex connectivity of zero-divisor graphs of finite commutative rings. *Journal of Algebraic Combinatorics*, 59(4), 955–969. <https://doi.org/10.1007/s10801-024-01314-1>
2. Deepti, **Mondal, P. S.**, Kumar, A., & Majumder, S. (2024). Label-free femto molar level electrochemical dopamine sensor based on amorphous carbon-coated pencil graphite electrode. *Journal of Materials Science: Materials in Electronics*, 35(10), 716. <https://doi.org/10.1007/s10854-024-12504-9>
3. Iqbal, F., & **Khushboo**. (2024) Migration, memories & misery in the glass palace by Amitav Ghosh. *ShodhKosh: Journal of Visual and Performing Arts*, 5(1), 3174–3177. <https://doi.org/10.29121/shodhkosh.v5.i1.2024.5733>
4. Kumar, S., Alam, A., Ranjan, R., **Kumar, S. R.**, Sharma, S. K., & Tiwary, K. P. (2024). Structural, morphological, hydrophilic, and optical study of as synthesized and annealed Cl doped CdZnS thin films. *Journal of Optoelectronics and Advanced Materials*, 26(1–2), 74–80.
5. Kumar, S., Alam, A., Singh, D. K., Sharma, S. K., **Kumar, S. R.**, & Rajpal, S. (2024). Structural, morphological, and optical studies of chemically developed annealed Cu doped CdS nanofilms. *Journal of Optoelectronics and Advanced Materials*, 26(11–12), 496–502.
6. Kumari, R., Kumar, A., Kanti Ghosh, T., & **Basu, S.** (2024). Facile synthesis of Aluminium fumarate metal–organic framework and hydroxyapatite composite with improved adsorption characteristics for efficient fluoride removal from water. *Chemical Engineering Science*, 283, 119440. <https://doi.org/10.1016/j.ces.2023.119440>
7. Mathew, A., Shekar, P. R., **Nair, A. T.**, Mallick, J., Rathod, C., Bindajam, A. A., Alharbi, M. M., & Abdo, H. G. (2024). Unveiling urban air quality dynamics during COVID-19: a Sentinel-5P TROPOMI hotspot analysis. *Scientific Reports*, 14(1), 21624. <https://doi.org/10.1038/s41598-024-72276-4>
8. Patel, S., **Nair, A. T.**, & Makwana, A. R. (2025). Optimizing coagulation of Navy Blue RX dye and comparative study of performance of polyaluminium chloride and ferric chloride. *International Journal of Environmental Science and Technology*, 22(1), 477–488. <https://doi.org/10.1007/s13762-024-05662-0>
9. Saha, N., Shahni, J., Singh, R., **Guleria, V.**, & Sriwastav, N. (2025). An efficient Legendre-wavelet collocation technique for solving Emden-Fowler type equations *Sibirskii Zhurnal Vychislitel'noi Matematiki. Numerical Analysis and Applications*, 28(3), 305–326.
10. Singh, R., Datta, P., **Guleria, V.**, & Sahoo, N. (2025). Investigation of real-world second-order singular differential equations by optimal homotopy analysis technique. *Journal of Mathematical Chemistry*, 63(4), 962–981. <https://doi.org/10.1007/s10910-025-01703-2>
11. Yudaev, P., Tamboura, B., Konstantinova, A., **Babu, H. V.**, & Muralidharan, K. (2025). Epoxy Resins and Their Hardeners Based on Phosphorus–Nitrogen Compounds. *Journal of Composites Science*, 9(6). <https://doi.org/10.3390/jcs9060277>

Book Chapters Published

1. Surabhi, S., Anurag, K., & **Kumar, S. R.** (2024). Investigation of the effect of annealing conditions on chemical bath deposited CdTe thin- film from non-aqueous bath. In *Recent Advancements in Multidimensional Applications of Nanotechnology* (pp. 145–161). Bentham Science Publisher. <https://doi.org/10.2174/9789815238846124010009>
2. Anurag, K., Surabhi, S., & **Kumar, S. R.** (2024). Variation of H₂O₂ concentration and its effect on structural, optical and morphological properties of graphene synthesized using electrochemical method. In *Carbon based Nanocomposite Sustainable Applications* (Vol. 2). Springer Nature.



3. Kumar, S., Alam, A., Rajpal, S., **Kumar, S. R.**, & Singh, D. K. (2024). Transition Metals doped CdS thin films: Short Study. In *Emerging Trends of Technological Innovations in Startups*. Narosa Publishing House Pvt. Ltd. ISBN- 978-81-8487-783-0
4. Kumar, S., Sharma, S. K., **Kumar, S. R.**, & Tiwary, K. P. (2024). Transition Metal Doped Piezoelectric Materials for Sensor Applications, In N. Singh & D. Mahato (Eds.), *Piezoelectric Materials: Design and Applications* (1st ed.). Jenny Stanford Publishing. <https://doi.org/10.1201/9781003598978>
5. **Rahman, S.**, & Santra, C. (2024). Nanotechnology in Lifesciences: Applications, challenges and Future Prospects., SCIENG Publications.
6. Roushan, R. K. & **Nair, A. T.** (2025). Coagulation of Dye Wastewater: Statistical Optimization Using Response Surface Methodology. In R. R. Dash, S. Mohapatro, & M. Behera (Eds.), *Pollution Control for Clean Environment* (Vol. 1, pp. 357–365). Springer Nature.

Conference/Seminar/Symposium Proceedings & Presentations: International & National

1. **Dr Anil Kumar** delivered Invited speech on “Studies of eco-friendly geopolymers products using steel industry slag fly ash and bottom ash”, in National seminar on clean environment envisioned towards Viksit Bharat (CEEVB-2025), at Central University Jharkhand, 11-12 March 2025.
2. **Dr. Anil Kumar** delivered invited talk on “Waste to wealth-possibilities in steel industries” in Jayaswal Neco industries Limited in 22 March 2025.
3. **Dr Partha Sarathi Mandal** presented paper on “Dielectric energy storage properties of BaTiO₃ ceramics prepared by reactive cold sintering using a novel transient flux” in 30th International Conference on Processing of Advanced Materials and Fabrication of Products [PAMFP] –2024 at IIT Hyderabad on 11-13 December 2024.
4. **Dr. Subhankar Basu** presented paper on “Characterization of solid biofuel generated from fruit wastes via hydrothermal carbonization”, in Advancement and Innovation in Science and Engineering Fields (AISEF: SERIES-1), at Central Research Facility, NIT Rourkela, on 12-13 June 2024.
5. **Dr. H. Vignesh Babu** presented paper on, “Epoxy resin based solid polymer electrolytes”, in National Conference on Cutting Edge Technologies in Computational methods, Science, Engineering and Technology, at RTC Institute of Technology, Ranchi, on 22 to 23rd Nov 2024.
6. **Dr. Sumbul Rahman** presented paper on, “Morphological study of Nanoporous HMS-X prepared at various synthesis conditions.”, in RAMPC25, at NIT Jamshedpur, on 21-23rd March, 2025.
7. **Dr. Khusbhoo** presented paper on, “Indian Network of Memory, Security & Sustainability”, in Reconfiguring Memories in the Select Works of Amitabh Ghosh, at IIT, Madras, on 16th-18th September, 2024.
8. **Dr. Nilima Das** presented paper on, “Convergence Analysis of the Modified Variational iteration method for the two point boundary value problems”, in Modeling , Analysis & Simulation comprising the realms of AI, ML and IoT(MAS 2024), at IIT (ISM) DHANBAD, on June 28-30, 2024.

Participation in International & National Conferences/Seminars/Symposiums/ Workshops/ FDPs

1. **Dr. Anil Kumar** participated in “Nurturing future leadership Programme”, under MMTPP for the senior Faculty members conducted by Indian Institute of Management Nagpur, held during March 17th to 21st, 2025.
2. **Dr. H. Vignesh Babu** has participated in the one-day workshop on “Open Access Publishing Organized”, by ORFG in association with NIAMT on 10th June 2024.



3. **Dr. H. Vignesh Babu** has participated in the online short-term course on “*Advanced Materials Testing and Characterization*” Organized by NIT-Hamirpur during 29th July to 02nd August 2024.
4. **Dr. H. Vignesh Babu** has participated in the “*Workshop on Interpretation of Instrumental Methods (WIIM-2025)*” Organized by Sathyabama Institute of Science and Technology in association with CSIR-NML during 02 to 07th January 2025.
5. **Dr. H. Vignesh Babu** has participated in “*National Conference of innovations in sustainable materials*”, organised by Bannari Amman Institute of Technology, Tamil Nadu on 7th February 2025.
6. **Dr. Vandana** completed all 8 Module of National Initiative for Technical Teachers Training conducted by NITTR from April to December 2024.
7. **Dr. Nilima Das** completed all 8 Module of National Initiative for Technical Teachers Training conducted by NITTR from April to December 2024.
8. **Dr. Sumbul Rahman** completed all 8 Module of National Initiative for Technical Teachers Training conducted by NITTR from April to December 2024.
9. **Dr. Kushboo** completed all 8 Module of National Initiative for Technical Teachers Training conducted by NITTR from April to December 2024.

Other activities

1. **Dr. Anil Kumar** was Examiner for evaluation of project Report and conduct of Viva voce of PGDEOH Programmes for June-2024 TEE of IGNOU Regional Centre, Ranchi on 20th June 2024.
2. **Dr. Anil Kumar** was Examiner for evaluation of project Report and conduct of Viva voce of MSCENV/ PGDEOH Programmes for Dec-2024 TEE of IGNOU Regional Centre, Ranchi on 8th February 2025.
3. **Dr. Anil Kumar** delivered Online counselling lecture for Master of Science in Renewable energy and environment (MSCRWEE) from May 16, 2024 to May 19, 2024 of MRW-001 course
4. **Dr. Anil Kumar** delivered Online counselling lecture for Master of Science in Renewable energy and environment (MSCRWEE) from May 26, 2024 to May 29, 2024 of MRW-002 course
5. **Dr. Anil Kumar** was Examiner for evaluation of Ph.D thesis of Manish Kumar, Enrolment No. YBNU 2002954 of YBN University. The thesis entitled “studies on a chromone Schiff base as an optical Aluminium ion chemosensor” dated 17-10-2024
6. **Dr. Anil Kumar** was Examiner for viva voce of Ph.D student of Manish Kumar, Enrolment No. YBNU 2002954 of YBN University. The thesis entitled “ studies on a chromone Schiff base as an optical Aluminium ion chemosensor” dated 23-11-2024
7. **Dr. Anil Kumar** was Examiner for evaluation of Ph.D thesis of Mr. S. Raja Shajahan , Reg. No. R20161927 of ALAGAPPA UNIVERSITY, The thesis entitled “ microbial fuel cell Assisted safe disposal of contaminant sorbed Biochar” dated 17-5-2024
8. **Dr. Anil Kumar** was External Examiner for Evaluation of Ph. D thesis: “Remediation of industrial wastewater/effluent to recover metals using various Bio/Synthetic Adsorbents” of candidate Shilpa Kalamani Bawkar from Netaji Subhas university Jamshedpur, India in September 2024
9. **Dr. H. Vignesh Babu** has joined as a Life member in Asian Polymer Association on December 2024.
10. **Dr. H. Vignesh Babu** has involved as organising committee member in conducting a workshop on “NEP 2020 in Engineering Education: Prospectus and Challenges” held at NIAMT on 27th March 2025.



Administrative Assignments

Sr. No.	Full Name	Administrative Assignment
1	Dr. Anil Kumar	- Head of Department of Applied Sciences & Humanities [1st July 2024- continue] - Head of Department of Environmental Engineering [25th March, 2025- continue] - Dean Student and Alumni Affairs and Chairman of Training and Placement Centre [From March 2022 to July 2024] - Chairman of Student activity (Training and Placement cell, Student induction Program, Universal Human Value, and student Fostering) as per AICTE Guidelines, Student Counselling service (SCS) cell as per AICTE Guidelines, Placement & Professional Development Centre Management Committee, Student Conduct & Disciplinary Committee [from March 2022 to July 2024]
2	Dr. S. R. Kumar	- Head of Department of Applied Sciences & Humanities [1st April 2024- 30th June 2024] - Dean (P&D) (From 1st July 2024 to till date) - Chairman of the Revised Purchase Guidelines - Chairman of the Selection Committee for Technical Supervisor (Civil Engineer, Electrical Engineer, System Administrator and Network Administrator) - Chairman of the Committee for identification of agency for Job Contract of Sweeping, Cleaning and House Keeping Work. Job was assigned to M/S Ryder - Chairman of the committee for framing of manpower tender documents, evaluation of technical bid and opening of financial bid the job was assigned to M/S Balajee. - Incharge Thin Film Laboratory
3	Dr. Arvind Pandey	- Incharge Registrar - Incharge of Physics Laboratory
4	Dr. Partha Sarathi Mandal	- Incharge of FeroCera Research Laboratory - Chairman of Innovation and Entrepreneurship Development Cell - Member of Purchase Committee - Member of Institute Ranking and Accreditation Committee - Director of NIAMT-FTBI, a section-8 company managed by the Institute - Member of MSME Idea Hechathon 4.0



Sr. No.	Full Name	Administrative Assignment
5	Dr. Subhankar Basu	- Academic Coordinator for P.G. and Ph.D. - Warden of Jagdish Chandra Bose Chatrawas - Laboratory Incharge of Environmental Engineering Lab-I - Member of Employee Welfare Committee - Member of Purchase Committee
6	Dr. Sriparna Chattopadhyay	- Syllabus revision for Eng. Maths I, II, III - Committee member for JINKS PRANAV 2025 - Member of Alumni Cell
7	Dr. H. Vignesh Babu	- Incharge of CIF-XRD Lab - Incharge of Chemistry Lab - Incharge of Materials Chemistry Lab - Coordinator Maintenance – Water Supply - Coordinator Maintenance – Sanitation - Member of Website Content Management Committee - Member of Timetable Committee - Member of Implementation of NEP-2020 - Committee member for JINKS PRANAV 2025 - Member of Doctoral Research Committee - Member of Swachta Pakhwada 2025
8	Dr. Abhilash T. Nair	- Laboratory Incharge of Environmental Engineering Lab-II - Coordinator Maintenance – Cleaning, sweeping and housekeeping - Coordinator Maintenance – Horticulture - Member of Swachta Pakhwada 2025. - Coordinator for “Ek Pedh Maa Ke Naam” programme. - Member of Security Management Committee
9	Dr. Sumbul Rahman	- Member of Security Management Committee - Warden of Kalpana Chatrawas - Member of Women Cell - Member of Hostel Management Committee
11	Dr. Khushboo	- Coordinator of Internal Complaints Committee - Nodal Officer for SHE-Box Portal - Member of Student Induction Programme Committee - Coordinator of Language and Communication Skill Development Centre



Sr. No.	Full Name	Administrative Assignment
12	Dr. Nilima Das	• Member of Women Cell • Committee member for JINKS PRANAV 2025 • Member of Bid opening Committee
13	Dr. Vandana	• Committee member for JINKS PRANAV 2025 • Member of Student Fostering Unit. • Member of Placement and Profession Development Centre Management Committee



DEPARTMENT OF ELECTRONICS AND COMPUTER ENGINEERING

ABOUT DEPARTMENT:

The Department of Electronics and Computer Engineering was established in 2020. The department envisages supporting the mammoth task of transforming the Institute into an Advanced Research Centre for Manufacturing Technology in the country. The enablers of such transformation, such as Computer-Aided Design and Manufacturing, Computer-Aided Engineering, Electronic Control Systems and Devices, Computer Networks and Security, Industrial Automation, Data Analytics, etc. will form the core activities of the youngest department of the Institute. The department envisions achieving excellence in technical education by offering interdisciplinary engineering courses pertaining to Electronics, Computers, Advanced Manufacturing and Automation, and to develop strong competencies in these domains to serve our nation. The department was established with the mandate of starting two new programmes: B. Tech. in Computer Engineering, and B. Tech. in Electronics and Automation Engineering, and to carry out research to support the institute and the academia. The B. Tech. programme in Computer Engineering is a blend of Computer Science and Engineering and Digital Manufacturing. The B. Tech. programme in Electronics and Automation Engineering will be a unique blend of Electronics and Communication Engineering and Manufacturing Automation, and it will be launched during 2024-25 academic session. These courses are expected to train the students in two distinct but industrially relevant areas under one programme. The laboratories essential for the B. Tech. programme in Computer Engineering are under development and will be established in a phased manner.

INCUMBENCY CHART OF HODS FROM 01-08-2011 TO 31-03-2025

Sl No.	Name of the HoD	From	To
1	Dr. G. Rajamohan	01-11-2020	30-09-2023
2	Mrs. Madhu Kumari	01-10-2023	Continuing

FACULTY

S. No	Name and Highest Qualification	Designation
1	Dr. Madhu Kumari Ph.D. (Indian Institute of Technology (IIT-ISM) Dhanbad)	Associate Professor & HOD
2	Dr. Vikash Kumar Gupta Ph.D. (Indian Institute of Technology (IIT-ISM) Dhanbad)	Assistant Professor
3	Dr. Ravinder Pal Singh Ph.D. (Indian Institute of Technology, Delhi)	Assistant Professor
4	Dr. Shalini Mahato Ph.D. (Birla Institute of Technology (BIT), Mesra)	Assistant Professor
5	Dr. Dinesh Kr. Prabhakar Ph.D. (Indian Institute of Technology (IIT-ISM) Dhanbad)	Assistant Professor
6	Mr. Abhishek Bakhla M.Tech. (CSE) (Indian Institute of Technology (IIT-ISM) Dhanbad)	Assistant Professor



7	Dr. Rahul Mishra Ph.D. (Indian Institute of Technology (IIT-ISM) Dhanbad)	Assistant Professor
8	Dr. Nidhi Kumari Ph.D. (Indian Institute of Technology (IIT-ISM) Dhanbad)	Assistant Professor (On Contract)

Activities:

Academic Activities

The B. Tech. programme in Computer Engineering was started from the academic session 2022-23 with an approved intake of 60 students.

Publications

International/National Journals:

1. **Kumari, M., & Solanki, P.** (2024). Adoption of Internet of things (IoT) in Renewable Energy. *International Journal of Engineering Research & Technology (IJERT)*, 13 (2). <https://doi.org/10.17577/IJERTV13IS110155>
2. **Kumari, M., & Kumar, D.** (2025). Economical design & analysis of solar water pump system for irrigation purposes in rural areas: a case study. *Computer Research and Development*, 25(1).
3. **Singh, R. P., Dikshit, I., Singh, G., & Sharma, N.** (2024). Development of fishbone powder and carbon-jute fiber reinforced unsaturated polyester based novel green composites: investigation of tensile, impact strength, and morphology microstructure. *Engineering Research Express*, 6(3), 035421. <https://doi.org/10.1088/2631-8695/ad6d31>
4. **Maurya, S. P., Sisodia, P. S., Mishra, R., & Singh, D. P.** (2024). Performance of machine learning algorithms for lung cancer prediction: a blockchain based secure storage. *Scientific Reports*, 14(1), 18562.
5. **Mishra, R., Ramesh, D., Mohammad, N., & Mondal, B.** (2024). Blockchain enabled secure pharmaceutical supply chain framework with traceability: an efficient searchable pharmachain approach. *Cluster Computing*, 27(10), 13621-13641.
6. **Mohanty, S. N., Satpathy, S., Chopra, R., & Mahato, S.** (2024). Investigating the impact of Mahā Mantra chanting on anxiety and depression: an EEG rhythm analysis approach. *Advances in Integrative Medicine*, 11(2), 74-83.
7. **Mahato, S., Choubey, D. K., Choubey, A., & Soni, V.** (2024). Soft computing approaches for ovarian cancer: a review. *GMSARN International Journal*, 18, 223-239.

Book Chapters:

1. **Srivastava, M., Singh, J., Verma, G., Dikshit, I., Singh, G. & Singh, R. P.** (2024). Metal matrix composites: traditional and unconventional sustainable machining techniques. In *Green Composites Manufacturing: A Sustainable Approach* (pp. 257-284). De Gruyter. <https://doi.org/10.1515/9783111067346-010>
2. **Vamshikrishna, A., Ramesh, D., Mishra, R., & Mohammad, N.** (2024). Sustainable healthcare 5.0: integration of IoT and blockchain technology with federated learning model for securing healthcare data. In *Artificial Intelligence of Things for Achieving Sustainable Development Goals* (pp. 161-180). Springer Nature. https://doi.org/10.1007/978-3-031-53433-1_9
3. **Kiro, J. N., Sinha, B. B., Kumari, M., & Mahato, S.** (2024). Detection of attention deficit hyperactivity disorder using electroencephalogram signals: a review. In *Artificial Intelligence: A tool for effective diagnostics*, 4(1).



4. Narula, D., **Mahato, S.**, Sinha, B. B., & Ahmad, R. B. (2024). Intelligent heart disease prediction using machine learning. In *Artificial Intelligence based Solutions for Industrial Applications* (1st ed., pp. 352-376). CRC Press. <https://doi.org/10.1201/9781003534761-15>
5. Fariah, F., **Mahato, S.**, Pattanaik, C. R., & Mohanty, S. N. (2024). Application of wearable devices in the medical domain. In *Reconnoitering the Landscape of Edge Intelligence in Healthcare* (1st ed., pp. 67-88). Apple Academic Press. <https://doi.org/10.1201/9781003401841-7>

Conferences:

1. A Kumar, D. K. Singh, K. Amrendra, R. K Burman, **D. K. Prabhakar**, and R. K Tiwari. A Machine Learning Model to Uncover the Impact of Traffic Noise Annoyance in the Inhabitants of Ranchi, Jharkhand. In proceedings of International Conference on Recent Advances in Artificial Intelligence for Sustainable Development (RAISD)-2025.

Books:

1. Singh, G., **Singh, R. P.**, Sharma, N., & Davim, P. (Eds.). (2024). *Green composites manufacturing: a sustainable approach*, 19, Walter de Gruyter GmbH & Co KG.
2. Jha, P., **Mahato, S.**, Jana, P. K., Maurya, S., & Chihi, I. (Eds.). (2024). *Artificial Intelligence based solutions for industrial applications*. CRC Press.
3. **Mahato, S.**, Sinha, B. B., Pati, J., & Rodrigues, J. (Eds.). (2025). *Global mental health and public health challenges and innovation: first international conference, GMHPHCI 2022, Jharkhand, India, November 25-27, 2022, Proceedings* (Vol. 2327). Springer Nature.

Patent:

1. Solar and Wind powered charging station for Electric vehicles. Mr. Shrawan Kumar Yadav, Dr. Alok Priya Darshi and Dr. Madhu Kumari. Design no. 414580-001, 23.10.2024. Date of em- 06.06.2024.
2. Autonomous vehicle fleet management system for logistics optimization (Application No.202411081908 A)
3. Lithium-ion battery pack for electric vehicle (Design No. : 431742-001)
4. Smart Pain Detection for Baby” by Shalini Mahato and Pallavi Mahato, Indian Patent Granted on 6th March 2025

Project:

1. In Progress

“**Smart Depression Monitoring System**” under Ministry of Micro, Small & Medium Enterprises (MSME) Innovative Scheme, Government of India

Project Budget: 15 Lakhs.

PI: Dr. Shalini Mahato, Faculty, Department of ECE, NIAMT Ranchi, Jharkhand

Consultancies/Visits/Invited Lectures/Collaborations:

1. **Dr. Shalini Mahato, Dr. D K Prabhakar, Mr. Abhishek Bakhla, & Dr. Rahul Misra** delivered a lecture on different topics of C Programming during Workshop on “**C Programming**” conducted by ECE Department, NIAMT Ranchi. [One Week, 22 – 27 July 2024]
2. **Dr. Shalini Mahato delivered a lecture** on “Flexible and Plant-Wearable Sensor Design for Smart and Precision Pharming” on AICTE Training and Learning (ATAL) Academy-sponsored Six-Day Online Faculty Development Program (FDP) on 03-08th February 2025
3. **Dr. Shalini Mahato delivered a lecture** on “Mental Health and Wellbeing” organized by National Wellbeing and Mental Health, NIT Sikkim, held on 27th March 2025.



4. **Dr. Shalini Mahato** was expert Speaker on “Detection of Mental Health using Machine Learning and EEG Signal” in **ATAL FDP** on “AI & ML for Sustainable Development: From Fundamentals to Advanced Applications” from Dec 19-23 2024
5. **Dr. Shalini Mahato**, Guest Speaker at “Empowering Women in STEM” Seminar 7-03-2025 at Seminar Hall of Amity University, Ranchi.
6. **Dr. Shalini Mahato**, Keynote Speaker on “Artificial Intelligence and Mental Health” at International Conference on “Recent Advances in Artificial Intelligence for Sustainable Development” (RAISD2025) on 8th March, 2025 at 2.00 PM on 8th March 2025 at Jharkhand Rai University
7. **Dr. Shalini Mahato**, Invited Guest in Doordarshan Jharkhand in programme “नई बुलंदी” on topic “मनोविज्ञान की दिशा में एक नई पहल” Live telecasted on 9th January 2025, 2pm-3pm

Industrial Visits:

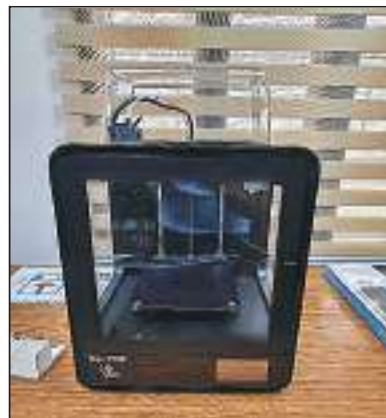
1. **Dr. Shalini Mahato & Dr. Rahul Mishra** served as Faculty In charge for Industrial visit to Software Technology Parks of India (STPI), Ranchi, MietY, Gol, for students of Electronics and Computer Engineering (ECE) STPI visit.

Seminar/Program/Conferences organised:

1. **Dr. D K Prabhakar** organised a one week C programming workshop from 22nd July 2024-27th July 2024.
2. **Dr. Ravinder Pal Singh** Coordinated of two weeks CATIA workshop from 9th to 20th September 2024.
3. **Dr. D K Prabhakar** Coordinated 12Hrs Smart India Hackathon (Internal)-2024 on 16th September 2024.
4. **Dr. Ravinder Pal Singh and Dr. Shalini Mahato** Coordinated one week AI powered Python workshop from 16th to 20th December 2024
5. **Dr. Ravinder Pal Singh** Coordinated three-week Advanced CATIA Workshop from 24th Feb to 17th March 2025.

Seminar and FDP attended:

1. **Dr. Madhu Kumari** Attended FDP on Methodologies of Renewable Energy Systems Research and implementation analysis - organized by Dept. of Electrical and Electronics Engineering by J. P. College of Engineering, Ayi Kudi, Tenkai. Duration: 5 days (20 - 24 May 2024)
2. **Dr. Madhu Kumari** attended an IoT and ML for Advanced Biomedical signal processing Jointly organized by ABVIIT & Management Gwalior and Electronics and ICT academy Jabalpur. Duration: 10 days (15-24 January 2025)
3. **Dr. Madhu Kumari** attended a Short term training program on Microelectronics and VLSI design (MVD-2024) organized by Department of Electronics and Communication Engineering BIT Mesra. Duration: 05 days (02- 06 April 2024)
4. **Dr. Madhu Kumari** attended an FDP on Data analytics using Machine Learning organized by B.I.T Noida Duration: one Week (03 – 07 June 2024).
5. **Dr. Madhu Kumari** attended FDP on Opportunities and challenges in integrating Renewable Energy in EV charging Infrastructure, organized by Electrical and Electronics Engineering. Duration: 06 days (24 – 29 August 2024)
6. **Dr. Vikash Kumar Gupta** attended one week ATAL-AICTE FDP on Digital manufacturing from 1st to 6th December 2024.
7. **Dr. Vikash Kumar Gupta** attended one week week AI powered Python workshop from 16th to 20th December 2024.
8. **Dr. Ravinder Pal Singh** attended one week ATAL-AICTE FDP on Digital manufacturing from 1st to 6th December 2024.
9. **Dr. Shalini Mahato** attended one week ATAL-AICTE FDP on Digital manufacturing from 1st to 6th December 2024.



Stereolithographic (SLA) 3D printer, Electronics and Automation Lab



Fused Deposition Modelling FDM 3D Printer Double Extruder

Digital Light Processing (DLP) 3D printer

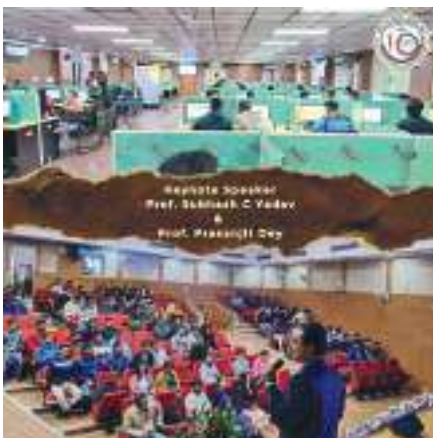


Electrical Machine lab's Equipment (LVDT Trainer 3MHz Digital Function Generator, Photo Conductive Cell (LDR) Trainer)

2 weeks CATIA workshop 9th – 24th Sept 2024



One week Python Powered AI Workshop 16th to 20th December 2024



Three week ADVANCED CATIA workshop 24th Feb- 17th March 2025



Any other Achievements:



CRPF visit and training at ECE Department



"IoT Basic Workshop" organized by Department of Electronics and Computer Engineering(ECE) on 25 -August 2024



1 weeks C programming workshop 22nd – 27th July 2024



Smart India Hackathon (Internal)-2024 on 16th September, 2024.





10. **Mr. Abhishek Bakhla** attended a **FDP and STC** on “Recent Advances in Computer Vision: Application and Implementation” conducted by the Department of Computer Science and Engineering, NIT Rourkela. [One Week, 06/12/2024 – 10/12/2024]
11. **Mr. Abhishek Bakhla** completed a **NPTEL-AICTE FDP** on “Problem Solving through Programming in C” on Swayam by IIT Kharagpur. Achieved “Elite + Silver” Certification and among **Top 5% Scorer** among all the 2687 participants. [12 Weeks, Jan – Apr 2024]
12. **Mr. Abhishek Bakhla** participated in **NEP-2020 Orientation and Sensitization Programme** under Malaviya Mission Teacher Training Programme (MMTTP) of University Grants Commission (UGC) organized by Indian Institute of Technology (Indian School of Mines), Dhanbad. [2 Weeks, 01/07/2024 – 15/07/2024]
13. **Mr. Abhishek Bakhla** attended and participated in **Industry Academia Conclave** at NIT Jamshedpur. [15/11/2024 – 17/11/2024].

Administrative Assignments:

S. No	Name of Faculty	Responsibilities
1.	Dr. Madhu Kumari	- Member of ICDC. - Member of Library Committee - Member of Purchase Committee - Approval made of M.Tech in CSE and Power Electronics - Chairperson of IT & Networking Cell - Chairperson of Website development Committee. Second phase of security audit is in process by STPI. - Member of Institute Liasoning Committee
2.	Dr. Vikash Kumar Gupta	- I/c Electrical (CMC) - Member of IT & NC - Member of Building/Facility Take-over Committee - Member of CIF - Member of CoE-AMRIT
3.	Dr. Ravinder Pal Singh	- Warden M V Chatrawas Second year hostel - Faculty Mentor NIAMT Racing Club - Member of Security Management Committee - Member Secretary- Timetable Committee - Member of AICTE IDEA Lab - Member of Smart Manufacturing team - Faculty In charge Boardroom



S. No	Name of Faculty	Responsibilities
4	Dr. Shalini Mahato	- Faculty incharge CodeForge: Data Science and AI community - Faculty In-Charge, Google Developer Group (GDG) on Campus at NIAMT - Branch Counselor for IEEE Student Branch, NIAMT - Faculty member Institute Ranking and Documentation - Member of Women Cell - Member of Smart Manufacturing team & AMRIT
5	Dr. Dinesh Kumar Prabhakar	- Member, PPDC NIAMT - Member, ITNC - SPOC for SIH-2024 from NIAMT.
6	Dr. Rahul Mishra	- Coordinator of IT & Networking Cell - Member of Website Development Committee - Member of Institutional NEP - 2020 Implementation Committee. - Coordinator Departmental Course Curriculum (B.Tech. & M.Tech.) - Coordinator, Departmental Summer Internship Program, 2025
7	Mr. Abhishek Bakhla	Member, Bid Opening Committee

Department Laboratory details:

S. No	Name of the laboratory	Faculty In-Charge	Items Procured	Quantity
1.	Electronics and Automation Lab	Dr. Ravinder Pal Singh, Dr. Madhu Kumari	Interactive Panel	01
			Stereolithography 3D printer	01
			Fused Deposition Modelling FDM 3D Printer Double Extruder	01
			FDM Single Extruder	01
			Digital Light Processing (DLP) 3D printer	01
2.	Electrical Machine Lab.	Dr. Vikash Kumar Gupta	Control Panel for machine lab.	03

CENTRAL INSTRUMENT FACILITY

The Central Instrument Facility (CIF) serves as a high end research platform within the institute shared by multiple departments, established to provide access to advanced analytical and characterization instruments under one roof. It is designed to support high-quality research and development activities across various disciplines of science, engineering, and technology. The facility houses sophisticated instruments such as FTIR, XRD, DSC and UTM. The CIF enables UG and PG students, research scholars, and faculty members of NIAMT to conduct advanced experiments and obtain precise analytical data essential for their research. In addition to serving internal users, the facility is also open to external academic institutions and industries on a nominal charge basis, thereby promoting collaborative research and optimal utilization of resources. By centralizing high-end equipment, the CIF minimizes duplication of infrastructure, fosters interdisciplinary collaboration, enhances research quality, and contributes significantly to the institute's overall scientific and technological advancement.

Central Instrument Facility Management Committee

Prof. D. Roy Professor (MME)	Chairman
Dr. Vivek Shamjibhai Ayar Assistant Professor (FFT)	Member
Dr. Lokeswar Patnaik Assistant Professor (MFE)	Member
Dr. V. K. Gupta Assistant Professor (ECE)	Member
Dr. H. Vignesh Babu Assistant Professor (ASH)	Member
Dr. T. Maity Assistant Professor (MME)	Coordinator

XRD Laboratory

Make : X-ray Diffractometer - Rigaku Japan

Model : Smart Lab 3 KW

Target : Cu

Detector : Solid state 2D detector Hypix400

Applications : Phase analysis, Residual stress analysis, Texture analysis

Facility in-charge: Dr. H. Vignesh Babu, Assistant Professor,
Department of Applied Sciences and Humanities





UTM Laboratory

Make: Universal Tensile Testing Machine - ITW-Bangalore

Model: 100kN Median

UTM Facility in-charge: Dr. Deepak Kumar, Assistant Professor, Department of Foundry and Forge Technology



FT-IR Laboratory

Make: Fourier Transform Infrared Spectroscopy - Bruker Optics GmbH, Germany

Model: ALPHA II-E

Application: Functional Group Analysis

FT-IR Facility in-charge: Dr. S. R. Kumar, Professor, Department of Applied Sciences and Humanities



DSC Laboratory

Make: Differential Scanning Calorimetry – Setaram – KEP Technologies

Model: Setline DSC (RT to 700 °C)

Application: Phase changes, melting temperature, glass transition temperature, crystalline temperature

DSC Facility in-charge: Dr. Ghanshyam Das, Professor, Department of Materials and Metallurgical Engineering





EMPLOYEE STATISTICS

Staff Strength as on 31.03.2025: -

S. No.	Name of Post	Sanction Strength	Existing Strength	Vacancy
01	Director/V.C	01	01	00
02	Professor	12	04	08
03	Associate Professor	24	13*	11
04	Assistant Professor	48	44**	04
05	Registrar	01	00	01
06	Dy. Registrar	01	01	00
07	Assistant Registrar	03	03	00
08	Sr. Medical Officer	01	01	00
09	Medical Officer	01	00	01
10	Technical Officer	01	01	00
11	Hindi Officer	01	00	01
12	Executive Engineer	01	00	01
13	Assistant Librarian	01	00	01
14	Technician	05	04	01
15	Sr. Technician	12	02	10
16	Technician (SGII)	07	05	02
17	Technical Assistant	04	00	04
18	Sr. Tech. Assistant	04	02	02
19	PS to Director	01	00	01
20	Sr. Superintendent	04	00	04
21	Superintendent	02	02	00
22	Assistant (SGII)	04	04	00
23	Sr. Assistant	10	04	06
24	Junior Assistant	09	06	03
25	Multi-Tasking Staff	21	21	00
	Total	179	118	61

* Out of 13 Asso. Professor (substantive post), 12 are holding the post of Professor under CAS.

** Out of 44 Asst. Professor (substantive post), 01 is holding the post of Asso. Professor under CAS.

List of New Joining and Separation from 2024-25 during 2024-25: -

Sl. No.	Name	Designation	Date	Mode of Joining/Separation
01	Mr. Vivek Kumar	Superintendent	01.05.2024	Direct Recruitment
02	Mr. Rahul Kumar	Jr. Assistant	01.05.2024	Direct Recruitment
03	Mr. Pran Kumar	Sr. Technician	06.05.2024	Direct Recruitment
04	Dr. K. K. Verma	Asso. Professor	18.10.2024	VRS
05	Dr. Vinod Kumar	Professor	31.12.2024	Superannuation
06	Smt. Madhumati	Superintendent	30.04.2024	Superannuation
07	Mr. R. K. Singh	Asst. Librarian	23.10.2024	Technical Resignation

List of Employees as on 31 March 2025

Sl. No.	Name	Designation	Dept./ Section	Pay Level
1	Dr. Partha Protim Chattopadhyay	Director	Director Office	15
2	Dr. Sanjay Kumar	Professor	MCE	14
3	Dr. Amitava Mandal	Professor	MCE	14
4	Dr. Niranjan Kumar Singh	Professor	FFT	14
5	Dr. Kamlesh Kumar Singh	Professor	FFT	14
6	Dr. Rajkumar Ohdar	Professor	FFT	14
7	Dr. Shyam Ranjan Kumar	Professor	ASH	14
8	Dr. Ajai Kumar Pathak	Professor	MCE	14
9	Dr. Nandita Gupta	Professor	FFT	14
10	Dr. Manoj Kumar	Professor	FFT	14
11	Dr. Anil Kumar	Professor	ASH	14
12	Dr. G. Rajamohan	Professor	MCE	14
13	Dr. Ghanshyam Das	Professor	MME	14
14	Dr. Arvind Pandey	Professor	ASH	14
15	Dr. Amitesh Kumar	Professor	FFT	14
16	Dr. Anoop Kumar Sood	Professor	MCE	14
17	Dr. Debdas Roy	Professor	MME	14
18	Dr. Banshidhara Mallik	Associate Professor	MME	13A1
19	Dr. Madhu Kumari	Associate Professor	ECE	13A1
20	Dr. V.M.S Hussain	Assistant Professor	MCE	12
21	Mrs. Sujata Smiti Gupta	Assistant Professor	ASH	11
22	Dr. Ajit Kumar Pramanick	Assistant Professor	FFT	11
23	Dr. Chinmoy Chattopadhyay	Assistant Professor	MME	11
24	Mr. Ratnesh Kumar Gupta	Assistant Professor	MME	11
25	Dr. Vineet Chak	Assistant Professor	FFT	11
26	Dr. Ratnakar Das	Assistant Professor	MCE	11
27	Dr. Partha Sarathi Mondal	Assistant Professor	ASH	11
28	Dr. Sambit Kumar Parida	Assistant Professor	MCE	11
29	Dr. Subhankar Basu	Assistant Professor	ASH	11
30	Dr. Anand Mohan Murmu	Assistant Professor	MCE	11
31	Mr. Koushik Sikdar	Assistant Professor	MME	11
32	Dr. Vikash Kumar Gupta	Assistant Professor	ECE	11
33	Mr. Subrato Kumar Soren	Assistant Professor	MCE	11
34	Dr. Umesh Khandey	Assistant Professor	MCE	10
35	Dr. Jagesvar Verma	Assistant Professor	MCE	10
36	Dr. Sriparna Chattopadhyay	Assistant Professor	ASH	10
37	Dr. H. Vignesh Babu	Assistant Professor	ASH	10
38	Dr. Aruna Thakur	Assistant Professor	MCE	10
39	Dr. Deepak Kumar	Assistant Professor	FFT	10
40	Dr. Abhilash Tulasidharan Nair	Assistant Professor	ASH	10



Sl. No.	Name	Designation	Dept./ Section	Pay Level
41	Dr. Tapabrata Maity	Assistant Professor	MME	10
42	Dr. Himanshu Khandelwal	Assistant Professor	FFT	10
43	Dr. Kulkarni Rahul Ramesh	Assistant Professor	FFT	10
44	Dr. Vaishali Sushil Poddar	Assistant Professor	MME	10
45	Dr. Vivek Shamjibhai Ayar	Assistant Professor	FFT	10
46	Dr. Sumbul Rahman	Assistant Professor	ASH	10
47	Dr. E. Hemachandran	Assistant Professor	FFT	10
48	Dr. Ravinder Pal Singh	Assistant Professor	ECE	10
49	Dr. Khushboo	Assistant Professor	ASH	10
50	Dr. Prasant Kumar Swain	Assistant Professor	MCE	10
51	Dr. Pavitra Singh	Assistant Professor	MCE	10
52	Dr. Nilima Das	Assistant Professor	ASH	10
53	Dr. Lokeswar Patnaik	Assistant Professor	MCE	10
54	Dr. Sunny Singhanian	Assistant Professor	FFT	10
55	Dr. Anas Ahmad Siddiqui	Assistant Professor	FFT	10
56	Dr. Vandana	Assistant Professor	ASH	10
57	Dr. Chandra Sekhar Kommalapati	Assistant Professor	MME	11
58	Dr. Shalini Mahato	Assistant Professor	ECE	10
59	Dr. Dinesh Kumar Prabhakar	Assistant Professor	ECE	10
60	Mr. Abhishek Bakhla	Assistant Professor	ECE	10
61	Dr. Riya Mondal	Assistant Professor	MME	10
62	Dr. Rahul Mishra	Assistant Professor	ECE	10
63	Mr. Kumar Prabhanjan Panigrahi	Deputy Registrar	Admin. & Accounts	13
64	Mr. Shankar Behera	Technical Officer	FFT	12
65	Dr. Md. Ghufuran Danish	Sr. Medical Officer	Health Center	12
66	Mr. Avinash Kumar Verma	Assistant Registrar	Establishment	11
67	Mr. Manoj Kumar Xalxo	Assistant Registrar	SP & EM	11
68	Mr. Sumit Raj	Assistant Registrar	Academic	10
69	Mr. Sudhir Kumar	Sr. Tech. Assistant	E&M	8
70	Mr. Chandan Kumar	Sr. Tech. Assistant	FFT	8
71	Mr. Santosh Prasad	Superintendent	On Deputation	7
72	Mr. Vivek Kumar	Superintendent	Accounts	6
73	Mr. Baijnath Nayak	Assistant (SG-II)	Establishment	6
74	Mr. Anil Kumar	Assistant (SG-II)	Central Library	6
75	Mr. Ganesh Oraon	Assistant (SG-II)	Establishment	6
76	Mr. Mansoor Miya	Assistant (SG-II)	Establishment	6
77	Mr. Jitray Munda	Technician (SG-II)	FFT	6
78	Mr. Munna Prasad	Technician (SG-II)	FFT	6
79	Mr. Raju Ram	Technician (SG-II)	FFT	6
80	Mr. Beni Madhab Mahendra	Technician (SG-II)	MME	6

Sl. No.	Name	Designation	Dept./ Section	Pay Level
81	Mr. Rajendra Ram	Technician (SG-II)	Erection & Maintenance	6
82	Mr. Nakul Ram	Senior Assistant	Central Library	4
83	Mr. Manish Bhardwaj	Senior Assistant	SP & EM	4
84	Mr. Rakesh Ranjan	Senior Assistant	Academic	4
85	Mr. Ranjan Kumar	Senior Assistant	Administation	4
86	Mr. Vikas Kumar	Senior Technician	ECE	4
87	Mr. Pran Kumar	Senior Technician	FFT	4
88	Mr. Anurup Kumar Singh	Junior Assistant	Academic	2
89	Mr. Ram Awadh Singh	Junior Assistant	MME	2
90	Mr. Ravi Kant Kumar	Junior Assistant	MCE	2
91	Mr. Pankaj Kumar	Junior Assistant	Central Library	2
92	Mr. M.A.H.Y.Ansari	Junior Assistant	ASH	2
93	Mr. Rahul Kumar	Junior Assistant	FFT	2
94	Mr. Jitendra Kumar	Technician	MME	2
95	Mr. Abhash Mahato	Technician	MCE	2
96	Mr. Prasanjeet Kumar Patar	Technician	ASH	2
97	Mr. Ajeet Gupta	Technician	ECE	2
98	Mr. Kanhiya Lal Mahali	Multi Tasking Staff	Guest House	3
99	Mr. Rabinder Singh	Multi Tasking Staff	HMC	3
100	Mr. Pramod Kumar	Multi Tasking Staff	MME	3
101	Mr. Md. Firoz	Multi Tasking Staff	FFT	3
102	Mr. Diveshwar Mukhiyar	Multi Tasking Staff	FFT	3
103	Mr. Jaipal Nayak	Multi Tasking Staff	Academic	3
104	Mr. Pawan Kumar Singh	Multi Tasking Staff	ECE	3
105	Mr. Laxmi Nayak	Multi Tasking Staff	ASH	3
106	Mr. Rameshwar Tirkey	Multi Tasking Staff	Academic	3
107	Mr. Vinod Oraon	Multi Tasking Staff	MME	2
108	Mr. Sanjeev Kant Ravi	Multi Tasking Staff	MCE	2
109	Mr. Sandeep Nayak	Multi Tasking Staff	Academic	1
110	Mr. Dheeraj Kumar	Multi Tasking Staff	SP & EM	1
111	Mr. Om Prakash Gupta	Multi Tasking Staff	Accounts	1
112	Mr. Kumar Prdeep	Multi Tasking Staff	Registrar Office	1
113	Mr. Roshan Kumar Soni	Multi Tasking Staff	MME	1
114	Mr. Vishal Kumar	Multi Tasking Staff	FFT	1
115	Mr. Pramod Borkar	Multi Tasking Staff	Administation	1
116	Mr. Ashutosh Pandey	Multi Tasking Staff	ECE	1
117	Mr. Vikram Kumar	Multi Tasking Staff	ASH	1
118	Mr. Rajat Kumar	Multi Tasking Staff	MCE	1



STUDENT'S STATISTICS

Regular Activities of Academic Section:

All the regular activities of the Academic Section such as admission, conducting regular classes, examinations, result publication have been carried out as per schedule. Classes of First semester B. Tech.-2024, M. Tech. -2024 and ADC 2024 started as per schedule.

Admission in 2024

1. Ph. D. Programme

Admission of Ph. D. students selected through written test & interview were conducted by respective departments.

Sl. No.	Department	No. of seats	No. of seats filled
1.	Materials and Metallurgical Engineering	03	01
2.	Foundry and Forge Technology	06	03
3.	Mechanical and Manufacturing Engineering	03	-
4.	Applied Sciences and Humanities	03	01

2. M. Tech. Programme

Admission through CCMT-2024 & Self Sponsored

Sl. No.	Branch	No. of seats	No. of seats filled
1.	Foundry-Forge Technology	35	02
2.	Manufacturing Engineering	38	-
3.	Industrial Metallurgy	35	06
4.	Material Engineering (Nanotechnology)	18	-
5.	Environmental Engineering	18	-

3. B. Tech. Programme

Admission through JoSAA/CSAB-2024

Branch (Allotted + supernumerary)	No. of seats	No. of seats filled
Mechanical Engineering	75	70
Metallurgy and Materials Engineering	75	65
Production and Industrial Engineering	60	37
Computer Engineering	60	53

4. ADC (52nd) 2024-2026

Admission through written test conducted by the Institute.

Branch	No. of seats	No. of seats filled
Foundry Technology	58	22
Forge Technology	57	18

Students Passed out in year of 2024

1. M. Tech. (2022-2024)

Sl. No.	Branch	No. of students passed out
1.	Foundry-Forge Technology	07
2.	Manufacturing Engineering	10
3.	Materials Science & Engineering	03
4.	Environmental Engineering	08

2. B. Tech. (2020-2024)

Branch	No. of students passed out
Manufacturing Engineering	67
Metallurgy and Materials Engineering	63

3. 51st ADC

Branch	No. of students passed out
Foundry Technology	22
Forge Technology	17



IT AND NETWORKING CELL

(formerly Centralized Computer Centre)

About the Cell:

The Information Technology and Networking Cell is primarily responsible for strengthening IT infrastructure, ensuring smooth maintenance, and supporting the digital growth of both employees and students at NIAMT.

Information Technology and Networking Cell comprises the following members:

Dr. Madhu Kumari Head of the Department (ECE)	Chairperson
Dr. Vikash Kumar Gupta Assistant Professor (ECE)	Member
Dr. Himanshu Khandelwal Assistant Professor (FFT)	Member
Dr. Dinesh Kumar Prabhakar Assistant Professor (ECE)	Member
Dr. Rahul Mishra Assistant Professor (ECE)	Member Secretary (Coordinator)

Facilities Available at IT and Networking Cell:

- Two (02) numbers of dedicated Internet Service Provider (1 Gbps of NKN/NIC and 550 Mbps of Powergrid)
- Campus-wide wired and wireless (Wi-Fi) networks
- Advanced computing facilities
- Campus-wide licensed software
- Currently, the Cell maintains 55 desktop computers dedicated to student use and online recruitment examinations. It also manages the Institute's email application and serves as the interface between the Institute and its departments.

Facilities Developed at IT and Networking Cell:

- Networking Facilities:** Campus-wide wired and wireless (LAN & Wi-Fi) internet access for students and staff.
- Computer Lab:** Equipped with 55 internet-enabled desktop computers for academic and examination purposes.
- Power Backup:** All systems and equipment are connected to online UPS systems (20 + 20 Online UPS)
- Data Infrastructure:** 4 servers, 2 SAN switches, and 1 SAN storage unit are installed for e-office and other institute applications.
- Email Services:** Centralized email application for faculty and students.
- Digital Classroom:** Equipped with audio-visual systems to support online and offline classes, including recording facilities.
- Institute new website design and development:** A new Institute website has been developed and submitted to STPI for a security audit. The first round of the audit has been successfully completed.

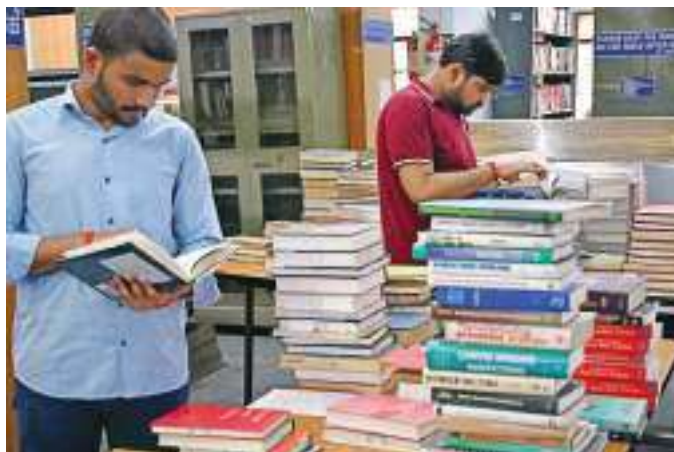


Services Provided at IT and Networking Cell:

1. Wired Network
2. Wireless Network
3. Campus Network Security
4. Institute Website Management
5. Campus-wide Software Management
6. Computer Lab Facility
7. Microsoft 365 Web Mail.
8. Cyber Security Solutions
9. Technical Support for e-Office Application & Hardware
10. Technical Support for Academic Applications (e.g., ANSYS, SIMUFACT, DEFORM, CATIA, MATLAB, PROCAST, NX, etc.)
11. Technical Support to ILC (Institute Liaison Cell) for Conducting Online Placement Examinations
12. Technical Support to faculty members and administration staff for attending online sessions, workshops, lectures, and Examinations, i.e., NITTT

LIBRARY AND DOCUMENTATION CENTRE

The Institute's Library marked its existence in 1966. Since then, it has grown in size and content along with National Institute of Advanced Manufacturing Technology (NIAMT, formerly NIFFT) to take the present shape. All these years, it has been the life line for the academic activity of the Institute. The Library has been catering to the needs of the under graduates, post graduate students and research scholar, faculty and staff members of the Institute. The book collection has been supporting the teaching, research, development and other professional activities of different departments. The demands of the ever-growing research areas in multiple disciplines are being catered with the help of latest volumes, in almost all fields of Engineering, Science, Technology and general areas.



The Centre provides Reading Facility, Borrowing Facility, Reference Services, Reprography Services and Plagiarism Detection Services. The Library has approximately 1000 users (UG Students, PG Students, ADC Students, Ph.D. Students Participants of Refresher Courses, Faculty Members and Staff Members of the Institute) and can provide sitting space to approximately 100 people at a time.

Library Committee:

1	Dr. Manoj Kumar HOD, Department of Foundry and Forge Technology	Chairman
2	Dr. G. Rajamohan HOD, Mechanical and Manufacturing Engineering	Member
3	Dr. Ghanshyam Das HOD, Department of Materials and Metallurgical Engineering	Member
4	Dr. Anil Kumar HOD, Department of Applied Sciences and Humanities	Member
5	Dr. Madhu Kumari HOD, Electronics and Computer Engineering	Member
6	Dr. K. Chandra Sekhar Assistant Professor, Department of Materials and Metallurgical Engineering and Professor In Charge, Library	Coordinator

Services:

1. Circulation of books.
2. Internet access through LAN ports.
3. User-assistance services in book search, online fine payment, issue of book cards.
4. Research support service through plagiarism detection and ONOS membership.
5. Orientations of subscribed software.

6. Current awareness service through both Hindi and English newspapers.

List of e-journals available through ONOS:

AAAS- Science	Project Muse
American Chemical Society Journals	Sage Publishing Journals
American Institute of Physics Journals	Springer Nature Journals
ASCE Journals Online	Taylor and Francis Journals
ASME Journals Online	Wiley Journals
Bentham Science Journals	ACM Digital Library
Cambridge University Press Journals	Oxford University Press Journals
Elsevier ScienceDirect Journals	BMJ Journals
Emerald Publishing Journals	Annual Reviews Journals
ICE Publishing Journals	SPIE Digital Library
IEEE Journals	American Physical Society
IndianJournals.com	American Mathematical Society Journals
Institute of Physics Journals	Thieme Journals
American Society for Microbiology Journals	Cold Spring Harbor Laboratory Press Journals
Lippincott Williams & Wilkins (Wolters Kluwer) Journals	American Institute of Aeronautics and Astronautics (AIAA) Journals





HOSTELS

The Institute has 5 boys' hostels and 1 girls' hostel to provide residential facilities to students admitted into any academic programs offered by this Institute. These hostels have the necessary amenities, such as 24-hour water supply, geysers, water coolers, dining facilities, indoor games, television with DTH connection, etc. to provide the students with a comfortable and safe stay away from their homes.

The hostels are managed by the Hostel Management Committee (HMC) under the chairmanship of the Chief Hostel Warden with all Wardens and Deputy Registrar as its members. Each hostel is managed by two Wardens and two or more caretakers. The different activities of the hostels, such as sports, dining, etc. are managed by a team of students for each activity.

Chief Hostel Warden:

1. Dr. B. Mallik (16th February 2024 onwards)

Sl. No.	Name of the Hostel	Meant for	Room Type	Total	Name of Warden
1	Kalpana Chawla Chatrawas	Girls	Double and triple	192	Dr. Vaishali Poddar Dr. Sumbul Rahman
2	Nirala Chatrawas*	Boys	Double and triple	150	Dr. S. K. Parida Dr. P.K Swain
3	V.A. Sarabhai Chatrawas	Boys	Single	30	
4	H.J. Bhabha Chatrawas	Boys	Double	300	Dr. Jagesvar Verma Dr. Sunny Singhania
5	M.V. Chatrawas	Boys	Single	176	Dr. A. M. Murmu Dr. R. P. Singh
6	J.C. Bose Chatrawas	Boys	Single	416	Dr. S. Basu Dr. E. Hemachandran

* Extension of these hostels in progress

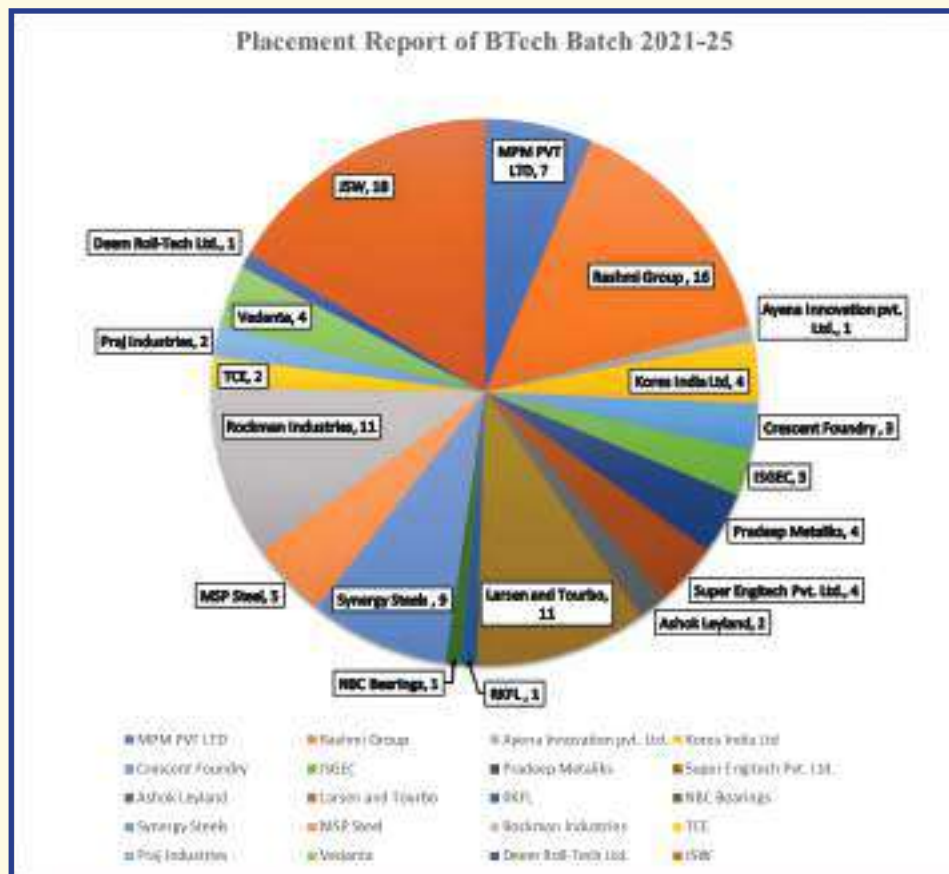
PLACEMENT AND PROFESSIONAL DEVELOPMENT CELL

(formerly Industrial Liaison Cell)

COMMITTEE MEMBERS

Effective from 09-07-2024 as per office order no.186/2024-25 and office order no.238/2024-25 dated 29-07-2024

Faculty	
Dr. Amitesh Kumar Professor-Department of Foundry and Forge Technology	Chairman
Dr. Rahul Ramesh Kulkarni Assistant Professor-Department of Foundry and Forge Technology	Coordinator
Dr. Vandana Assistant Professor-Department of Applied Science and Humanity	Member
Dr. Riya Mondal Assistant Professor-Department of Materials and Metallurgical Engineering	Member
Dr. Lokeswar Patnaik Assistant Professor-Department of Mechanical Engineering	Member
Dr. Dinesh Kumar Prabhakar Assistant Professor-Department of Electronics and Computer Engineering	Member





Our Recruiters



Mou's with Leading Firms:-



Training/Internship Details 2025

Industry exposure is an essential part of NIAMT's curriculum. During 2025, our students pursued internships at reputed organizations such as Tata Steel, JSW, Vedanta, SAIL, RINL, BHEL, NTPC, Coal India, Tata Motors, Maruti Suzuki, Hyundai, Hero, Cummins, LCT, and JCB. They also gained research experience at DRDO, BARC, CSIR-NML, CMERI, IITs, and global platforms like Google Summer of Code, alongside leading companies including Reliance and Metso. These opportunities have strengthened students' technical competence, professional discipline, and industry readiness, ensuring that they are well-prepared to contribute meaningfully to both industry and research domains.



Job Placement in 2024-25

Sl.	Degree	Placement (no.)	Placement (%)	Average pay	Highest pay
1	Mechanical Engineering	51	100	6.94 Lpa	13.9 Lpa
2	Metallurgical Engineering	58	100		
3	ADC (Foundry)	15	100	3.6 Lpa	4.2 Lpa
4	ADC (Forge)	20	100		
5	M.Tech(FFT)	1	100	9 Lpa	9 Lpa

Details of companies and their recruitment

Sl. No.	COMPANIES	B. Tech.		ADVANCE DIPLOMA Courses		M. Tech.
		HIGHEST PAY 13.9- LPA		HIGHEST PAY 4.2- LPA		HIGHEST PAY 9 - LPA
		AVERAGE PAY 6.94- LPA		AVERAGE PAY 3.6- LPA		AVERAGE PAY 9 - LPA
		ME	MME	FOUNDRY	FORGE	FFT
1	Vedanta	-	4	-	-	-
2	MPM PVT LTD	2	5	-	-	-
3	Rashmi Group	-	16	-	-	-
4	Ayena Innovation Pvt. Ltd.	1	-	-	-	-
5	Kores India Ltd	2	2	2	-	-
6	Crescent Foundry	1	2	-	-	-
7	ISGEC	-	3	2	-	-
8	Pradeep Metaliks	3	1	-	3	-
9	Super Engitech Pvt. Ltd.	4	-	-	-	-
10	Ashok Leyland	-	2	-	-	-
11	Larsen and Turbo	11	-	-	-	-
12	RKFL	-	1	-	13	-
13	NBC Bearings	-	1	-	-	-
14	Synergy Steels	4	5	-	2	-
15	MSP Steel	3	2	9	-	-
16	Rockman Industries	10	1	2	-	-
17	TCE	2	-	-	-	-
18	Praj Industries	-	2	-	-	-
19	Now Purchase	-	-	-	-	1
20	Deem Roll-Tech Ltd.	1	-	-	-	-
21	JSW	7	11	-	-	-
22	Mercury Fittings	-	-	-	2	-

ME- Mechanical Engineering

MME- Materials & Metallurgical Engineering

FFT- Foundry & Forge Technology



STUDENT FOSTERING UNIT

(formerly Students Gymkhana)

The Student Fostering Unit (formerly Students Gymkhana) of NIAMT stands as one of the most dynamic and student-centric bodies within the Institution, established with the core objective of nurturing holistic development beyond the traditional academic framework. The committee is constituted on 09/07/2025 with the following members:

Dr. Umesh Khandey Assistant Professor (MFE)	Chairman
Dr. Vandana Assistant Professor (ASH)	Member
Dr. Anas Ahmad Siddiqui Assistant Professor (FFT)	Member
Dr. K. Chandra Sekhar Assistant Professor (MME)	Member
Mr. Sumit Raj Assistant Registrar (Academic)	Coordinator

Constituted committee ensures seamless execution of activities and effective liaison with student representatives. Together, this team works closely with the Student SFU (Gymkhana) Committee, forming a collaborative ecosystem that encourages innovation, participation, leadership, and personality development among students. The committee of student SFU were constituted in 2024-25 The selected member of students SFU committee are as follows:

1	General Secretary Committee	1. Sowmya Sree A (MME) – Fourth Year 2. Mayank Kumar Verma (CE) – Third Year 3. Anurag Kumar (MME) – Third Year
2	Treasurer Committee	1. S V S Krishna Reddy (MME) – Third Year 2. E Srivardhan (MME) – Third Year
3	Joint Secretary Committee	1. B Hansika (PIE) – Third Year 2. Subhranil Bagui (MME) – Third Year 3. Piyush Ranjan (MME) – Third Year 4. Kunj Bihari Singh (PIE) – Second Year
4	Technical Club Committee	1. Sai Harshavardhan Konsia (MME) – Third Year 2. Ayush Mishra (CE) – Third Year 3. Galla Akshaya (MME) – Second Year 4. Attada Sandeep (ME) – Second Year
5	Games and Sports Club Committee	1. Kumar Satyam (PIE) – Third Year 2. Anshu Kumari (MME) – Third Year 3. Vipul Yadav (ME) – Second Year 4. Depani Lokesh (CE) – Second Year

6	Cultural Club Committee	1. Pragma Bharti (ME) – Third Year 2. V Prashanth (CE) – Third Year 3. Subhangi Raj (MME) – Second Year 4. Eagala Maithreyi (ME) – Second Year 5. Ujjawal Kumar (ME) – Second Year
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The various government initiatives events and extra academic events and outreach programmes were conducted throughout the calendar year 2024-25. The details of programmes or events conducted are as follows:

Events for the year 2024-25

International Yoga Day 2024 (June)

Every year on June 21st, people around the world observe International Yoga Day to encourage the benefits of yoga on one's body, mind, and soul. At the NIAMT Ranchi, the student body SFU (Gymkhana) celebrated International Yoga Day with utmost respect towards ancient yogic traditions of renowned Yoga instructor Dr. Ramesh Kumar.



Anti-Ragging Week (August)

The institute observed Anti-Ragging Week to reinforce a safe and respectful campus environment. Awareness sessions, interactive talk and competitions were conducted. Posters and digital materials were circulated to educate students about laws and reporting mechanisms. Students were guided on support systems and helplines. The initiative strengthened the institute's commitment to a ragging-free campus.

National Sports Day (August)

NIAMT celebrated National Sports Day on August 29th by organizing a series of engaging and competitive events on campus. The day commenced





with an energizing marathon that set a vibrant tone for the celebrations. This was followed by volleyball, tug-of-war, and cricket matches, which witnessed enthusiastic participation from students. The events promoted teamwork, sportsmanship, and a healthy competitive spirit. Overall, the celebration contributed to fostering an active and collaborative campus environment.



Swachhata Pakhwada (September)

The institute observed Swachhata Pakhwada with activities promoting cleanliness and environmental awareness. Campus cleaning drives, Swachhata Pledge and other competitions saw active participation from students and staff. Awareness talks highlighted the importance of hygiene and sustainable practices. A cleanliness pledge was administered to reinforce responsibility. The initiative strengthened the institute's commitment to a clean and eco-friendly campus.



Artista & Jhankriti (December)

The institute's student body successfully organized Artista and Jhankriti, its flagship techno-cultural events showcasing student creativity, innovation, and talent on 14th and 15th December, 2024. The events featured a range of competitions including dance, music, and technical exhibitions, drawing enthusiastic participation from students across all departments. The events were well-coordinated and witnessed vibrant performances, making them a major highlight of the academic year. The celebration contributed significantly to enriching the campus's cultural and creative environment.

Sadbhavna - Annual Sports Event (February)

The institute organized the Sadbhavna Annual Sports Event with the aim of promoting unity, sportsmanship, and holistic student development. A wide range of athletic and team events, including track competitions, football, cricket, volleyball, and indoor games, witnessed enthusiastic participation from students. The event fostered healthy competition, teamwork, and discipline among participants.



Jinks Pranav – Annual Cultural cum Techno-management Fest (March)

The institute hosted its premier Jinks Pranav – Annual Cultural cum Techno-management Fest from March 21st to 23rd, 2025. Organized by the SFU Gymkhana members, this flagship three-day event was a grand display of student talent, merging cultural artistry with technological innovation and management acumen. The fest featured a diverse range of competitive events, including performing arts, technical exhibitions, and Robotics, which drew enthusiastic participation from students across various disciplines. The successful organization and vibrant atmosphere of Jinks Pranav significantly contributed to fostering a spirit of creativity, collaboration, and healthy competition within the campus community.



Under the guidance of Dr. Umesh Khandey, the committee has emphasized transparency, inclusiveness, and continuity in activities. His leadership has ensured that Gymkhana functions as a nurturing platform for every student, irrespective of discipline, year, or background, to engage in self-development. The members of the committee, Dr. Anas Ahmed Siddiqui, Dr. K. Chandra Sekhar, and Dr. Vandana—bring diverse expertise, ensuring that cultural, technical, and sports activities receive appropriate attention and professional guidance. Meanwhile, Coordinator Mr. Sumit Raj plays a pivotal role in bridging administrative procedures with student requirements, ensuring that every activity is implemented smoothly and efficiently. As NIAMT continues to evolve as a centre of excellence, the Student Fostering Unit remains committed to expanding the scope, frequency, and impact of Extra Academic Activities. Future plans include the introduction of more specialized technical clubs, inter-college sports tournaments, expanded cultural festivals, community outreach programs, and skill-enhancing workshops. The committee aims to cultivate an environment where students not only excel academically but also develop resilience, creativity, discipline, and empathy—qualities essential for success in today's multidisciplinary world.

SOCIAL AND OUTREACH ACTIVITIES

Ek Ped Maa Ke Naam

On World Environment Day, Prime Minister Shri Narendra Modi launched the **Ek Ped Maa Ke Naam** campaign to merge environmental stewardship with a heartfelt tribute to mothers. In alignment with this vision, NIAMT proudly joined the initiative, reinforcing our commitment to sustainability and community spirit. The Director, Prof P. P. Chattopadhyay, inaugurated the programme and students, faculty and staff joined him and planted 800 saplings. By planting 800 trees in honor of mothers, NIAMT has not only enhanced its ecological footprint but also deepened our collective appreciation for maternal care—both human and environmental. Let's continue to nurture these saplings and the values they represent.



Blood Donation Camps on National Youth Day and Gandhi Jayanti

National youth day 2025 was celebrated with great zeal and enthusiasm on 12 Jan 2025, like every year. Students voluntarily and happily participated in this blood donation camp to showcase their contribution in a healthy society building and biggest donation to the mankind. The blood and its components have only live human source, not manufactured. Its replacement in urgency is vital in lifesaving of human being. It gives great satisfaction of saving the life of someone. It is also a habit building for the students who are healthy and 1st time donors. Institute organises these donations on various occasions like National Youth Day, National Unity Day, Gandhi Jayanti etc.



YES+ Youth Empowerment and Skill Workshop

An 8-days YES+ Youth Empowerment and Skill Workshop, coordinated by Dr. Rahul Ramesh Kulkarni, Assistant Professor, Department of Foundry and Forge Technology, was organized in the month of October 2024 in association with the Art of Living, with the help of Dr. B. Mallik, Associate Professor, and with the approval of the Director, NIAMT Ranchi. The workshop, conducted for first-year students in the hostel premises, focused on life skills, stress management, leadership, and holistic personality development, empowering students with confidence, positivity, and teamwork for their overall growth. Students received the certificate at the end of the workshop.



KARTAVYA

Mission Kartavya Foundation, a Non-governmental Organization that was officially incorporated on January 13, 2023. We are registered under Section 8 of the Companies Act, 2013, by the Ministry of Corporate Affairs, Government of India. Our core mission is to contribute to society by promoting education and fostering positive change.

Currently, we are achieving remarkable success by operating three centers situated at Hatia, NIAMT campus, and Tupudana. NIAMT Campus Center shines with the dedication of BTech girl volunteers, while Hatia and Tupudana Centers flourish under the expertise of BTech boy volunteers – Together, we empower excellence!

Academics

Our academic initiatives focus on building strong educational foundations by providing quality teaching, regular mentoring, and personalized learning support. Through structured classes, doubt-clearing sessions, and continuous assessment, we aim to empower children with knowledge, confidence, and the skills required to excel in their studies and pursue a brighter future.





Sports

Sports play a vital role in the physical and mental development of children. Through regular sports activities and games, we promote fitness, discipline, teamwork, and resilience. These activities help instill values such as leadership, sportsmanship, and perseverance while encouraging a healthy and active lifestyle



Cultural Events

Cultural activities provide children with a platform to express themselves creatively and confidently. By organizing events involving art, music, dance, and performances, we celebrate diversity, nurture talent, and strengthen self-belief. These experiences foster cultural awareness, unity, and emotional growth among the children.



Technical Advancement (Coding & Digital Skills)



To prepare children for a technology-driven world, we introduce them to coding sessions and digital literacy programs. These initiatives aim to develop problem-solving abilities, logical thinking, and innovation while bridging the digital divide. By equipping children with essential technical skills, we enable them to explore new opportunities and build a future-ready mindset.

Guided by experience, driven by youth, together we create lasting impact.



EVENTS ORGANISED IN 2024-25

SL No.	Date	Events
1	22 May 2024 to 05 Jun 2024	World Environment Day
2	5 Jun 2024	Ek Ped Maa Ke Naam
3	10 Jun 2024	Workshop on Open Access Publishing
4	21 Jun 2024	International Yoga Day
5	12 Aug 2024 to 18 Aug 2024	Anti-Ragging Week
6	15 Aug 2024	National Space Day
7	15 Aug 2024	Independence Day
8	29 Aug 2024	National Sports Day
9	02 Sep 2024 to 17 Sep 2024	Swachhata Pakhwada
10	01 Sep 2024 to 14 Sep 2024	Hindi Pakhwada
11	14 Sep 2024 to 02 Oct 2024	Swachhta Hi Seva (Health Camp for Safai Mitra Suraksha Shivar)
12	02 Oct 2024	Gandhi Jayanti (Blood Donation Camp)
13	Oct 2024	8 Days YES+ Youth Empowerment and Skill Workshop
14	31 Oct 2024	National Unity Day
15	15 Nov 2024 to 26 Nov 2024	Jan Jatiya Diwas
16	26 Nov 2024	Constitution Day
17	14 Dec 2024 to 15 Dec 2024	Artista and Jhankriti
18	12 Jan 2025	National Youth Day (Blood Donation Camp)
19	26 Jan 2025	Republic Day
20	21 Feb 2025 to 23 Feb 2025	Sadbhavna (Annual Sports Event)
21	28 Feb 2025	Viksit Bharat
22	08 Mar 2025 to 18 Mar 2025	International Women's Day
23	21 Mar 2025 to 23 Mar 2025	Jinks Pranav (Annual Cultural cum Techno-management Fest)



ERECTION AND MAINTENANCE SECTION

The Erection and Maintenance Section plays a critical role in ensuring the smooth functioning and safety of the institute's physical infrastructure. The section has plumbers, electricians, carpenter, masons, helper and cleaning staff, for the upkeep, repair, and preventive servicing of all facilities, equipment, and utilities across the campus. The section collaborates with external vendors for specialized repairs and upgrades when required.

Members of the Section

1.	Prof. S. R. Kumar	Dean (Planning and Development)
2.	Dr. Vikash Kumar Gupta	Coordinator – Electrical
3.	Dr. H. Vignesh Babu	Coordinator – Water Supply Coordinator – Sanitation
4.	Dr. Abhilash T. Nair	Coordinator – Cleaning Sweeping and Housekeeping Coordinator – Horticulture
5.	Mr. Sudhir Kumar	Coordinator – Civil

In-House Major Works

Civil, Carpentry, Painting and Finishing

- Construction of New Security Room and two toilet blocks.
- Window glass, mirrors, and furniture repairs in offices, hostels and residential quarters.
- Wall and room painting across multiple hostels, Gymkhana, Lecture Hall Complex, EKA Lab.
- Ceiling, door-fixing, wall-tile and other minor finishing works

Electrical Works

- Wiring for power plugs, AC lines, UPS connections, inverter feeds in ECE, COA, Digital Electronics, Electronics & Automation, IT & NC, Welding, XRD, FESEM, Admin, and lab buildings
- LED and panel-light installations (ECE, Electronic & Automation, MME labs)
- Cable replacements (hostels, workshops, motor panels, sub-station, auditorium)
- MCB/TPN replacements, VCB panel repairs
- New machine-shop and forge-shop power connections

Plumbing Works & Procurement

- Repair of plumbing accessories in multiple toilets and quarters to prevent seepage
- Procurement and installation and submersible pumps and accessories
- Regular tap, valve and ballcocks repair and replacement to reduce water wastage.

Horticulture and campus cleaning

- Regular grass cutting, sweeping, and sewage/manhole cleaning
- Ongoing campus plantation to boost green cover and aesthetics
- Participation in Rose Show 2025 and winning prizes in two categories.

HINDI CELL

Hindi Cell is the centre of official language activities of the institute. The cell discharges the responsibility of compliance of the official language policies of the Union in the institute.

The following works were done by the cell during the year under review:

- After the official language inspection done by the Parliamentary Official Language Committee in March last year, the institute received directions to improve the performance of the institute on certain points. In view of this, a compliance work list was prepared by the Hindi Cell of the institute and work was done on it.
- The institute registered its representation in all the meetings of Ranchi City Official Language Implementation Committee held during the year under review. In the meeting, cognizance was taken of the deficiencies found in the review of the quarterly report of the institute.
- The Hindi Cell organised the meetings of the Official Language Implementation Committee of the institute.
- The Hindi Cell organised Hindi workshops for faculty members, officers, employees every quarter.
- Hindi Pakhwada was organised in the institute in the month of September. In which apart from the employees, students of the institute participated in large numbers.





DEPARTMENT OF APPLIED SCIENCES AND HUMANITIES & DEPARTMENT OF ENVIRONMENTAL ENGINEERING



DEPARTMENT OF ELECTRONICS AND COMPUTER ENGINEERING

Newly Installed Laboratories facilities



AC R-L-C Series Circuit



Auto Transformer



Digital Oscilloscope



Microprocessor 8085



SLA 3D- printer for automation and IOT lab



DEPARTMENT OF MECHANICAL AND MANUFACTURING ENGINEERING

Newly Installed Laboratories facilities



Universal Testing Machine



CNC Milling Machine



Electric Discharge Machine



Wire Electric Discharge Machine



Coordinate Measuring Machines (CMM)



Brinell Hardness Testing machine

DEPARTMENT OF MATERIALS AND METALLURGICAL ENGINEERING

Newly Installed Laboratories facilities



Low speed diamond cutting machine



ARC melting unit



Vickers hardness tester



Carbon Silicon Analyser



Optical Microscope with Image analyser



DEPARTMENT OF FOUNDRY AND FORGE TECHNOLOGY (FFT)

Highlight of the Laboratories

Foundry Shop



Forge Shop



CENTRAL INSTRUMENT FACILITY





EVENTS AND ACTIVITIES





National Institute of Advanced Manufacturing Technology

(Formerly National Institute of Foundry and Forge Technology)

Deemed to be University under Distinct Category under MoE, Govt. of India

Hatia, Ranchi – 834003 (Jharkhand)



Annual Accounts

For the Financial Year 2024-25

(As per Revised Formats of Financial Statements for Central Higher Education Institutions)

INTERNAL AUDITORS
M/S MANMOHAN SINGH & CO.
Chartered Accountants
Ranchi



राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान

समविविधविद्यालय (विशिष्ट श्रेणी)

हटिया, राँची - 834 003 (झारखण्ड)

National Institute of Advanced Manufacturing Technology

Deemed to be University (Distinct Category)

Hatia, Ranchi – 834 003 (Jharkhand)

शिक्षा मंत्रालय, भारत सरकार के अधीन एक केंद्रीय वित्त पोषित तकनीकी संस्थान
A Centrally Funded Technical Institute under Ministry of Education, Govt. of India



वित्तीय वर्ष 2024-25 के लिए लेखा का विवरण

(केंद्रीय उच्चतर शैक्षणिक संस्थानों के लिए वित्तीय विवरणों के संशोधित प्रारूप के अनुसार)

STATEMENT OF ACCOUNTS FOR THE FINANCIAL YEAR 2024-25
(As per Revised Formats of Financial Statements for Central Higher Educational Institutions)



NATIONAL INSTITUTE OF ADVANCED MANUFACTURING TECHNOLOGY, RANCHI

STATEMENT OF ACCOUNTS FOR THE FINANCIAL YEAR 2024-25

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NATIONAL INSTITUTE OF ADVANCED MANUFACTURING TECHNOLOGY

HATIA, RANCHI - 834 003

BALANCE SHEET AS ON 31ST MARCH, 2025

SOURCES OF FUNDS	Schedule	Current Year 2024-25	Previous Year 2023-24
CORPUS/CAPITAL FUND	1	1,64,15,41,926.61	1,36,59,86,645.32
DESIGNATED, EARMARKED AND ENDOWMENT FUND	2	1,09,81,754.40	1,18,05,937.40
HEFA LOAN	2A	9,98,36,959.00	5,63,04,160.00
CURRENT LIABILITIES	3	16,87,61,848.51	15,69,74,324.74
TOTAL		1,92,11,22,488.52	1,59,10,71,067.46

APPLICATION OF FUNDS	Schedule	Current Year 2024-25	Previous Year 2023-24
FIXED ASSETS	4		
a) Tangible Assets		70,10,00,005.34	71,88,21,649.26
b) Capital work-In-Progress		70,48,48,535.00	52,35,52,445.00
c) Intangible Assets		93,49,938.01	92,14,808.52
INVESTMENT FOR DESIGNATED, EARMARKED AND ENDOWMENT FUND	5	-	-
INVESTMENT - OTHERS	6	3,50,00,000.00	-
CURRENT ASSETS	7	20,31,16,981.11	16,51,26,184.11
LOANS, ADVANCES & DEPOSITS	8	26,78,07,029.06	17,43,55,980.56
TOTAL		1,92,11,22,488.52	1,59,10,71,067.45

AS Internal Auditor
For M/s Mannohan Singh & Co.
Chartered Accountants



Prof. A. Pandey
Registrar I/c

K. P. Ranigrahi
Dy. Registrar

Dy. Registrar

Director

निदेशक

कुलसचिव
Registrar

निदेशक

राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology, Ranchi-3

राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3

National Institute of Advanced Manufacturing Technology, Ranchi-3



NATIONAL INSTITUTE OF ADVANCED MANUFACTURING TECHNOLOGY
HATIA, RANCHI - 834003

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED ON 31ST MARCH, 2025

INCOME	Schedule	Current Year 2024-25	Previous Year 2023-24
ACADEMIC RECEIPTS	9	7,83,94,677.00	3,04,15,915.00
GRANTS AND SUBSIDIES (OH-31 and OH-36 from MOE)	10	43,66,35,083.92	36,13,74,731.67
INCOME FROM INVESTMENT	11	10,17,353.00	-
INTEREST EARNED	12	36,96,695.10	17,20,719.00
OTHER INCOME	13	60,36,432.75	16,29,788.50
PRIOR PERIOD INCOME	14	-	-
TOTAL INCOME (A)		52,57,80,241.63	39,51,41,154.17

EXPENDITURE	Schedule	Current Year 2024-25	Previous Year 2023-24
STAFF PAYMENT & BENEFITS (Establishment Expenses)	15	37,50,20,822.00	31,03,97,177.70
ACADEMIC EXPENSES	16	67,45,590.77	1,05,98,975.00
ADMINISTRATIVE AND GENERAL EXPENSES	17	4,35,03,980.50	3,52,24,789.98
TRANSPORTATION EXPENSES	18	6,80,217.00	8,33,958.00
REPAIR & MAINTENANCE EXPENSES	19	1,05,37,049.50	52,83,293.50
FINANCE COSTS	20	-	-
DEPRECIATION	4	4,15,13,197.23	4,67,88,347.66
OTHER EXPENSES	21	-	-
PRIOR PERIOD EXPENSES	22	19,98,129.33	12,28,943.48
TOTAL EXPENDITURE (B)		47,99,98,986.43	41,03,55,485.32
Balance Being Excess of Income over Expenditure (A-B)		4,57,81,255.21	(1,52,14,331.15)
Transfer to / from Designated Fund		-	-
Balance Being Surplus/(Deficit) Carried to Capital Fund		4,57,81,255.21	(1,52,14,331.15)

Significant Accounting Policies
Contingent Liabilities & Notes to Accounts

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K.P. Pandey
Dy. Registrar

Prof. A. Pandey
कुलसचिव
Registrar

Prof. P. P. Chattopadhyay
Director

CA J.P. Sharma
(Partner)
Chartered Accountant
M.NO. 402655

AK Internal Auditor
For M/s Mannohan Singh & Co.
Chartered Accountants

राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology, Ranchi-3
राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
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National Institute of Advanced Manufacturing Technology, Ranchi-3



NATIONAL INSTITUTE OF ADVANCED MANUFACTURING TECHNOLOGY

HATIA, RANCHI - 834 003

RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED ON 31ST MARCH, 2025

RECEIPTS	Sch. No.	Current Year 2024-25	Previous Year 2023-24	PAYMENTS	Sch. No.	Current Year 2024-25	Previous Year 2023-24
I. Opening Balances				I. Expenses			
A) Cash Balances		110.00	110.00	1. Non Plan Expenses	29	18,59,74,214.00	15,12,02,061.00
B) Bank Balances				1. Staff Payments & Benefits(Ext. Expenses)		-	21,000.00
In Savings Accounts				2. Academic Expenses		7,00,29,568.83	6,58,99,525.30
SB A/c No. 2730101006939 (IRG)		4,95,97,798.29	9,38,65,007.80	3. Administrative and General Expenses		5,334.00	-
Canara Bank online A/c. 2730101012610		9,04,765.50	11,70,817.61	4. Recurring Expenses		10,620.00	-
HDFC Online Fees A/c.[50100537085095]		2,98,58,117.00	34,31,408.00	5. Repair & Maintenance		-	-
Canara Bank SB A/c No. 2730101012031 (Escrow A/c)		66,361.00	65,416.00	II. Payments Against Sponsored Projects	30-A	10,911.93	13,399.00
Canara Bank SB A/c No. 2730101011451(OH-31)		77,51,517.04	3,11,10,731.75	III. Payments Against Sponsored Fellowship/Scholarship	30-B	8,34,600.00	11,34,800.00
Canara Bank SB A/c No. 2730101011452(OH-36)		1,87,00,094.83	4,33,11,011.83	IV. Expenditure on Fixed Assets	31	33,78,597.00	33,41,337.00
Canara Bank SB A/c No. 2730101011453(OH-35)		2,04,88,940.00	1,43,69,164.00	1. Plan Fixed Assets		-	-
Canara Bank SB A/c No. 2730101011923(SERB Project I)		6,114.00	2,367.00	2. Non Plan Fixed Assets		-	-
Canara Bank SB A/c No. 2730101012032 (Principal A/c)		1,54,50,073.07	14,82,937.00	V. Interest on Loan of Employees/Staff		-	-
Canara Bank SB A/c No. 2730101012429(SERB Project II)		20,06,280.00	29,62,935.00	VI. Loans, Advances and Deposits	32	8,82,228.00	2,24,66,658.00
Canara Bank SB A/c No. 2730101012033 (Escrow A/c)		29,262.00	3,442.00	VII. Other Payments	33	59,26,25,532.80	30,42,24,514.86
Canara Bank SB A/c No.2730101001031 (Alumni Cell)		49,713.40	48,296.40	VIII. Loan From HEFA		3,08,20,000.00	3,08,20,000.00
SBI online Account 38979437865		64,27,931.08	64,60,359.48	IX. Current Assets		3,50,00,000.00	-
SBI (FLC) A/c.-41773834634		2,81,990.00	1,00,000.00	Term Deposit		9,730.00	-
Bank of Maharashtra- 60427666707		5,68,774.00	-	Receivable from Radission Blu		16,000.00	-
II. Grants Received				TDS Receivable		-	-
From Government of India(MOE)							
1. Plan Grant (OH-35)		21,75,00,000.00	8,50,00,000.00				
2. Non Plan Grant (OH-31 and OH-36)		42,55,00,000.00	28,50,00,000.00				
III. Academic Receipts	25						
1. Academic		6,84,78,208.00	2,94,79,175.00				
2. Other Fees		11,13,169.00	5,26,600.00				
IV. Receipts Against Sponsored Projects	3-I	49,35,261.00	26,01,782.00				
V. Receipt Against Sponsored Fellowship/Scholarship	3-II	2,24,11,196.00	1,28,48,591.00				





NATIONAL INSTITUTE OF ADVANCED MANUFACTURING TECHNOLOGY
HATIA, RANCHI - 834 003

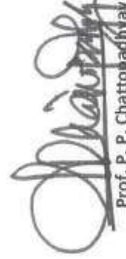
RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED ON 31ST MARCH, 2025

RECEIPTS	Sch. No.	Current Year 2024-25	Previous Year 2023-24	PAYMENTS	Sch. No.	Current Year 2024-25	Previous Year 2023-24
VI. Interest Received on				X. Closing Balances			
1. On SB Accounts		36,87,074.10	16,65,599.00	A) Cash Balances		110.00	110.00
2. On Loans & Advances		96,912.00	55,120.00	B) Bank Balances			
				In Savings Accounts			
				Canara Bank SB A/c No. 2730101006939 (RG)		2,44,52,529.54	4,95,97,798.29
				Canara Bank online A/c. 2730101012610		1,52,978.89	9,04,765.50
				HDFC Online Fees A/c.(50100537085095)		8,30,60,624.10	2,98,58,117.00
VII. Other Income				SBI (FLC) A/c.-41773834634		2,81,990.00	2,81,990.00
1. Other Income	26	29,64,927.75	1,34,31,861.50	Canara Bank SB A/c No. 2730101011451(OH-31)		1,42,89,952.47	77,51,517.04
				Canara Bank SB A/c No. 2730101011452(OH-36)		2,19,79,508.83	1,87,00,094.83
				Canara Bank SB A/c No. 2730101011453(OH-35)		19,73,627.90	2,04,88,940.00
VIII. Miscellaneous receipts including Liability	27	18,05,70,653.00	9,86,22,163.00	Canara Bank SB A/c No. 2730101011923(SERB Project I)		93,680.00	6,114.00
				Canara Bank SB A/c No. 2730101012032 (Principal A/c)		1,60,76,765.07	1,54,50,073.07
IX. Deposits & Advances	28	26,02,487.93	13,59,095.00	Canara Bank SB A/c No. 2730101012429(SERB Project II)		18,27,440.07	20,06,280.00
				Canara Bank SB A/c No. 2730101012033 (Escrow A/c.)		39,056.00	29,262.00
X.Earmarked Fund				Canara Bank SB A/c No.2730101001031 (Allumni Cell)		51,279.40	49,713.40
				Canara Bank SB A/c No. 2730101012031 (Escrow A/c)		66,243.00	66,361.00
XI. Amount Received from MoE For HEFA Interest		33,78,597.00	23,04,526.00	SBI Online Account -38979437865		9,16,739.16	64,27,931.08
				Bank of Maharashtra- 60427666707		4,41,272.00	6,68,774.00
				Bank of Maharashtra- 60449665345		49,346.00	-
				NIAMT External fund		1,78,848.00	-
TOTAL		1,08,55,26,326.99	73,14,11,136.37	TOTAL		1,08,55,26,326.99	73,14,11,136.37

As Interim Auditors
For M/s Mannohan Singh & Co.
Chartered Accountants



CA J. P. Sharma
(Partner)
M.NO. 402655



Prof. P. P. Chattopadhyay
Director
निदेशक

Director

राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology Ranchi-3



Prof. Arvind Pandey
बुद्धमूर्ति
Registrar

Registrar

राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology Ranchi-3



K. P. Panigrahi
उप कुल द्य. Registrar
Dy. Registrar

Dy. Registrar

राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology Ranchi-3

**SCHEDULE - 1: CORPUS/CAPITAL FUND**

Particulars	Current Year	Previous Year
Balance at the beginning of the year	1,36,59,86,645.32	1,31,71,47,557.47
Add: Contributions towards Corpus/Capital fund	-	-
Add: Grants from UGC, Govt. of India, state Government to the extent utilised for capital expenditure	22,53,23,747.00	8,41,58,255.00
Add: Assets Purchased out of Earmarked Funds	-	-
Add: Assets Purchased out of Sponsored Projects, where ownership vests in the institution	-	-
Add: Assets Donated / Gifts Received	-	-
Add: Others Additions (Building appreciation)	-	-
Less: Others Deduction (Capital Grant Unutilized Refundable to MOE)	-	-
Add: Excess of Income over Expenditure transferred from the Income & Expenditure Account	4,57,81,255.21	-
TOTAL	1,63,70,91,648.61	1,40,13,05,812.47
Deduct: Deficit transferred from Income & Expenditure Account	-	(1,52,14,331.15)
Add: Prior Period Rectification of Profit & Loss A/c	26,04,466.00	(9,18,907.00)
Deduct: Amount reversed during the year based on CAG observation	18,45,812.00	(1,91,85,929.00)
Balance at the year end	1,64,15,41,926.61	1,36,59,86,645.32





Sr. No.	Name of the Project	Opening Balance	Receipts	Total	Expenditure	Closing Balance
1	2	3	4	5(3+4)	6	7(5-6)
1	Earmarked Fund for CISD Committee	20,00,000.00		20,00,000.00	4,43,851.00	15,56,149.00
2	Earmarked Fund for NIFFT Allumni Cell	16,89,230.40		16,89,230.40	1,81,998.00	15,07,232.40
3	Earmarked Fund (IRG)	49,01,643.00		49,01,643.00		49,01,643.00
4	Earmarked Fund-Project Overhead	16,15,950.00	22,54,366.00	38,70,316.00	18,65,950.00	20,04,366.00
5	Income Tax Refund	5,86,750.00		5,86,750.00	5,86,750.00	-
6	CISD Modular Kitchen Development (Utsav Mahto)	2,12,364.00		2,12,364.00		2,12,364.00
7	Earmarked Fund-(SERB Project-Debdas Roy)	8,00,000.00		8,00,000.00	-	8,00,000.00
	Total	1,18,05,937.40	22,54,366.00	1,40,60,303.40	30,78,549.00	1,09,81,754.40





SCHEDULE - 2 (A): HEFA LOAN

Particulars		FY 2024-25	FY 2023-24
1	Opening Balance		8,26,36,071.00
2	Add: Loan from HEFA (Amount directly paid to CPWD)	5,63,04,160.00	
		7,43,52,799.00	-
3	Add: Loan from HEFA (Amount directly paid to Supplier)		44,88,089.00
4	Add: Interest charged by HEFA	51,58,305.00	42,86,528.00
5	Less: Principal Installment Paid to HEFA Against Loan	3,08,20,000.00	3,08,20,000.00
6	Less: Interest paid to HEFA (Q1 TO Q3)	33,78,597.00	33,41,337.00
7	Less: 4 th QTR Interest payable to Next FY	17,79,708.00	9,45,191.00
Closing Balance (1+2+3+4-5-6-7)		9,98,36,959.00	5,63,04,160.00





SCHEDULE - 3: CURRENT LIABILITIES

CURRENT LIABILITIES		FY 2024-25	FY 2023-24
1	Deposit From Staff	6,53,491.00	28,96,782.00
2	Deposit From Student		
a	Caution Money	1,56,84,153.50	1,30,78,153.50
3	Deposit-Others		
a	Earnest Money	54,24,354.00	41,93,354.00
b	Security Deposit	1,99,738.30	1,74,738.30
c	Performance Security	7,63,057.00	6,85,024.00
4	GeM Suppliers	22,321.00	-
5	Hostel Establishment Fund	2,93,10,525.00	95,21,847.00
6	Other Current Liability		
a	Expense Payable	73,86,546.00	1,21,16,617.00
b	Other Liabilities		
i	Account Payable/ Receivable	2,23,441.00	2,23,441.00
ii	AICTE	1,40,000.00	1,40,000.00
iii	Grant From CBSE Board	50,000.00	50,000.00
iv	M/s Total Library Solution	92,784.00	92,784.00
v	Provisional Expenses		
vi	Amount Payable to Manoj Kumar	-	45,000.00
vii	Amount Received From IIPC Project A/c-2730101004765	10,99,915.50	10,99,915.50
viii	Grant Refundable to MoE [OH-35 (Capital) and OH-36 (Salary)]	3,32,12,966.00	3,23,62,260.30
ix	Interest Earned on Grants Refundable to MOE	26,57,539.00	25,33,523.00
x	Amount Received from Unidentified Person	35,37,596.43	54,83,646.43
xi	Deposit from CBI	1,70,000.00	1,70,000.00
xii	UG & PG Summer Examination -2020	13,920.00	13,920.00
xiii	Amount Received from JUT	8,12,218.00	8,72,460.00
xiv	Tequip Fund Account	7,02,929.11	7,02,929.11
xv	Amount Received from AICTE	1,26,100.00	1,26,100.00
xvi	Amount payable to Mess Contractor		
xvii	Amount received from JoSAA 2024		20,76,000.00
xviii	Amount received from Central Coalfields Ltd	2,00,000.00	2,00,000.00
xix	Amount Received from CATIA Workshop	61,988.00	
xx	Amount Received from DASA 2024	10,000.00	
xxi	Amount Received from Python Programming	12,000.00	
c	Outstanding Account	4,95,89,694.00	4,75,66,369.00
d	CPDA Payable	70,612.00	70,113.00
e	Receipt against Sponsored Projects (Annexure-I of Schedule-3)	72,85,845.07	53,54,022.00
f	Receipt against Sponsored Fellowship & Scholarship (Annexure-II of Schedule 3)	26,65,375.00	38,04,048.00
g	Amount Received From LIC	88,956.00	20,410.00
h	Amount Received From NTA-UGC	1,26,740.00	1,26,740.00
i	Amount Received From UCIL	88,561.00	88,561.00
j	Receipt For Workshop/Conference	94,042.00	
k	Received From CSAB	5,818.00	
l	Statutory Liabilities		
i	LIC Premium	89,666.40	9,484.40
ii	TDS U/s 192A	72,954.00	29,50,548.00
iii	TDS U/s 194C	85,170.00	10,41,834.00
iv	TDS U/s 194J	(1,89,586.00)	3,55,954.00
v	Employees Loan Repayment	19,607.00	19,607.00
vi	Professional Tax on Salary	1,11,840.20	82,498.20
vii	New Pension Scheme (Employees Contribution)	7,97,890.00	7,64,467.00
viii	New Pension Scheme (Employer Contribution)	12,45,482.00	11,99,154.00
ix	GPF Deduction from Salary	9,94,040.00	-
x	CGST TDS (1%)	50,452.00	1,69,527.00
xi	SGST TDS (1%)	50,452.00	1,69,527.00
xii	IGST TDS (2%)	35,448.00	2,20,359.00
xiii	TDS U/s 194 I	-	4,236.00
xiv	GIS Premium	1,675.00	
xv	GIS Premium (Director)	80.00	
7	Student Activity Fund	8,79,398.00	13,76,827.00
8	Student Medical Fund	33,94,878.00	9,29,996.00
9	Student Mess Fee Fund	(14,60,824.00)	17,91,548.00
		16,87,61,848.51	15,69,74,324.74





ANNEXURE-I TO SCHEDULE - 3: SPONSORED PROJECTS

Sr. No.	Name of the Project	Opening Balance		Receipts	Total	Expenditure	Closing Balance	
		Credit 3	Debit 4				Credit 8	Debit 9
1	2			5	6	7		
1	Direct Admission of Students Abroad (DASA)	1,28,175	-	-	1,28,175	-	1,28,175	-
2	Project-Board of Research in Nuclear Science (BRNS)	16,39,363	-	-	16,39,363	-	16,39,363	-
3	Project-Science and Engineering Research Board (Old)	1,80,450	-	-	1,80,450	-	1,80,450	-
4	Project-Science & Engineering Research Board (New 1)	2,96,849	-	-	2,96,849	-	2,96,849	-
5	Project-Science & Engineering Research Board (S. Basu)	6,631	-	91,940	98,571	118.00	98,453	-
6	Technical Education Quality Improvement Programme	18,704	-	-	18,704	-	18,704	-
7	Science Research Engineering Board (P.S. Mondal)	(68,746)	-	-	(68,746)	9,220.93	(77,967)	-
8	Project Development Institute-Nigeria	4,69,095	-	-	4,69,095	-	4,69,095	-
9	Science Research Engineering Board (D. Roy)	(4,38,932)	-	-	(4,38,932)	-	(4,38,932)	-
10	Science Research Engineering Board (A. K. Pramanik)	15,65,118	-	7,61,496	23,26,614	5,19,838.00	18,06,776	-
11	AICTE Project (D. Roy)	1,27,861	-	-	1,27,861	1,19,325.00	8,536	-
12	AICTE-Atal FDP Workshop	-	-	-	-	-	-	-
13	Womens Technology Park	(69,197)	-	3,00,000	2,30,803	1,63,445.00	67,358	-
14	BHEL Project -CMERI	7,58,183	-	4,18,185	11,76,368	12,25,726.00	(49,358)	-
15	Women Scientist -DST	5,52,662	-	-	5,52,662	1,11,390.00	4,41,272	-
16	Barupur Surgical Cluster, MSME West Bengal	1,87,806	-	-	1,87,806	-	1,87,806	-
17	Amount Received from Rashmi Metaliks	-	-	13,53,200	13,53,200	-	13,53,200	-
18	CMTI Bangalore Project - Dr. Himanshu Khandelwal	-	-	3,03,600	3,03,600	1,48,933.00	1,54,667	-
19	India - Belarus Bilateral Project	-	-	7,56,840	7,56,840	7,05,442.00	51,398	-
20	PM Vishwakarma Scheme	-	-	4,50,000	4,50,000	-	4,50,000	-
21	R&D Project of Stainless Steel - Rimjhim Stainless Ltd.	-	-	5,00,000	5,00,000	-	5,00,000	-
	Total	53,54,022	-	49,35,261	1,02,89,283.00	30,03,437.93	72,85,845.07	-

ANNEXURE-II TO SCHEDULE - 3: SPONSORED FELLOWSHIPS AND SCHOLARSHIPS

Sr. No.	Name of the Project	Opening Balance		Receipts	Total	Expenditure	Closing Balance	
		Credit 3	Debit 4				Credit 8	Debit 9
1	2			5	6	7.00		
1	Govt. of India SC/ST Scholarship	54,700	-	-	54,700	-	54,700	-
2	Govt. of India ST Scholarship	-	-	13,83,800	13,83,800	8,79,600.00	5,04,200	-
3	S N Sinha Memorial Scholarship	58,755	-	-	58,755	5,000.00	53,755	-
4	State Scholarship for Students	35,33,093	-	2,08,92,371	2,44,25,464	2,27,70,244.00	16,55,220	-
5	Scholarship from Mahindra & Mahindra Ltd.	7,500	-	2,40,000	2,47,500	-	2,47,500	-
6	Tata Steel Ltd. (For PGCSM Course)	1,50,000	-	-	1,50,000	-	1,50,000	-
	Total	38,04,048	-	2,25,16,171	2,63,20,219	2,36,54,844.00	26,65,375.00	-





ANNEXURE-III TO SCHEDULE - 3: OUTSTANDING ACCOUNT

Sl No.	Particulars	Amount (in Rs.)
1	Abhishek Kumar(Project Assistant)-Outstanding	25,000
2	Amount Payable to 52nd ADC Students-Outstanding	3,46,500
3	Amount Payable to Abhilash T Nair-Outstanding	11,000
4	Amount Payable to Abhishek Electrical and Energy-Outstanding	37,642
5	Amount Payable to Ajay Syscon Pvt Ltd.- Outstanding	24,898
6	Amount Payable to Anapurna Press & Proces-Outstanding	15,930
7	Amount Payable to Apex Corporation India Pvt Ltd-Outstanding	60,000
8	Amount Payable to Balajee Detective Force-Outstanding	30,43,079
9	Amount Payable to BSNL- Outstanding	17,198
10	Amount Payable to Candela & Decibels -Outstanding	28,700
11	Amount Payable to Central Warehousing Corporation--Outstanding	1,10,448
12	Amount Payable to Contractual Faculty-Outstanding	3,15,700
13	Amount Payable to Escalate Energy Pvt Ltd-Outstanding	6,592
14	Amount Payable to Ghanshyam Das-Outstanding	24,733
15	Amount Payable to Globe Scientific Instruments-Outstanding	44,980
16	Amount Payable to HEC Ltd.-Outstanding	1,03,608
17	Amount Payable to Himanshu Khandelwal-Outstanding	13,390
18	Amount Payable to Hotel The Raso-Outstanding	27,457
19	Amount Payable to ICE World Refrigeration-Outstanding	7,625
20	Amount Payable to Jagesvar Verma-Outstanding	10,884
21	Amount Payable to Kashvi Industries-Outstanding	570
22	Amount Payable to Kavya Enterprises- Outstanding	7,152
23	Amount Payable to Keshav Enterprises-Outstanding	2,847
24	Amount Payable to K.P.Panigrahi- Outstanding	66,794
25	Amount Payable to Lens Point India Pvt Ltd.-Outstanding	24,000
26	Amount Payable to Maa Travel Agency-Outstanding	60,496
27	Amount Payable to Mamta Sharma-Outstanding	16,000
28	Amount Payable to Nandita Gupta-Outstanding	9,015
29	Amount Payable to Om Hardware And Electricals-Outstanding	1,440
30	Amount Payable to Partha Sarthi Mondal-Outstanding	1,02,386
31	Amount Payable to Prof. Manoj Kumar (Outstanding)	24,952
32	Amount Payable to Raider Security Services Pvt Ltd.-Outstanding	16,48,266
33	Amount Payable to Raj Enterprises-Outstanding	7,340
34	Amount Payable to Raj Signage-Outstanding	16,479
35	Amount Payable to Ratnakar Das-Outstanding	48,877
36	Amount Payable to Riya Mondal- Outstanding	9,350
37	Amount Payable to Saboo Rickshaw Traders-Outstanding	1,48,680
38	Amount Payable to Sandeep Nayak-Outstanding	20,060
39	Amount Payable to Shakti Enterprises-Outstanding	2,523
40	Amount Payable to S R Kumar-Outstanding	8,508
41	Amount Payable to Stop to Shop-Outstanding	18,328
42	Amount Payable to Subrato Kumar Soren- Outstanding	28,350
43	Amount Payable to Sudip Mahato (Cook)-Outstanding	17,205
44	Amount Payable to Sumbul Rahman (Outstanding)	1,880
45	Amount Payable to Sumit Raj (AR)- Outstanding	3,266
46	Amount Payable to Swam Equip-Outstanding	22,473
47	Amount Payable to Systronic India Ltd-Outstanding	31,860
48	Amount Payable to Tej Corporation-Outstanding	5,109
49	Amount Payable to Ubixa Pvt. Ltd.-Outstanding	5,987
50	Amount Payable to Vatika Sweets-Outstanding	1,89,000
51	Amount Payble to M/s Sai Enterprises-MP-Outstanding	6,556
52	Amount Payble to Rakesh Ranjan-Outstanding	11,703
53	Amount Payble to Ravinder Pal Singh-Outstanding	27,939





54	Amount Payble to Saatvik Sales Corporation-Outstanding	8,900
55	Amount Payble to Shalini Mahato- Outstanding	9,498
56	Anas Ahmad Siddiqui CPDA Payable Outstanding	840
57	Arvind Pandey CPDA Payable Outstanding	19,741
58	Arvind Pandey-Rolling Advance-Outstanding	24,743
59	Deepak Kumar CPDA Payable Outstanding	7,212
60	Dinesh Prabhakar CPDA Payable Outstanding	12,302
61	Dr. Gajendra Kumar (CMO-Mecon)-Outstanding	24,000
62	Dr Vandana CPDA Payable Outstanding	3,573
63	Ghanshyam Das CPDA Payable Outstanding	7,342
64	Indigo Catering & Service Pvt Ltd-Outstanding	59,80,656
65	Industrial & Mining Associates-Outstanding	3,00,000
66	K.B. Saxena & Associates--Outstanding	7,59,659
67	Kolkata Interiors Private Limite-Outstanding	13,389
68	Manoj Kumar- CPDA Payable-Outstanding	22,600
69	Ms Isha Kundu (Counsellor)-Outstanding	30,250
70	Nandita Gupta CPDA Payable Outstanding	1,200
71	Osaw Industrial Product Pvt Ltd.- Outstanding	1,07,051
72	Pavitra Singh CPDA Payable Outstanding	57,472
73	Payable to Advance Forming Technology Centre-Outstanding	5,77,306
74	payable to bull fighter security service-outstanding	23,33,542
75	Payable to everest human resource counsultant-outstanding	17,57,882
76	Payable to HEFA-Outstanding	17,79,708
77	Payable to JBVNL-Outstanding	8,95,473
78	Payable to Jharkhand Home Guard-Outstanding	13,41,504
79	Payable to Manmohan Singh & Co.-Outstanding	3,64,950
80	Payable to Pensioners-Outstanding	64,74,206
81	Payable to Prakash Hardware & Sanitary-Outstanding	38,307
82	Payable to Ritvi Enterprises-Outstanding	9,844
83	Payable to Solize India Technologies Pvt.Ltd.-Outstanding	2,82,207
84	Payable to Suraj Lal Singh-Outstanding	26,80,918
85	Payable to Teaching & Non Teaching Staff-outstanding	1,61,29,353
86	Payble to Dr. Dinesh Kumar Prabhakar-Outstanding	25,000
87	Payble to Dr Sujeet Kumar Gautam (Project Associate)-Outstanding	41,300
88	Prof. Amitesh Kumar Outstanding	50,538
89	Prof.Anil Kumar Outstanding	12,720
90	Radical Scientific Equipment Pvt. Ltd.-Outstanding	30,444
91	Rahul Mishra CPDA Payable Outstanding	17,696
92	Rajiv Kumar Singh- Outstanding	1,040
93	Ram Lakhan Yadav (Advocate)-Outstanding	14,100
94	Ratnakar Das-CPDA Payable-Outstanding	7,080
95	Ratnesh Kumar Gupta - Rolling Advance-Outstanding	21,536
96	Shalini Mahato CPDA Payable Outstanding	37,250
97	Software Technology Parks of India- Outstanding	32,792
98	Sriparna Chattopadhyay-CPDA Payable-Outstanding	1,500
99	Subhankar Basu CPDA Payable-Outstanding	5,074
100	Sumbul Rahman-CPDA Payable- Outstanding	10,958
101	Testing Instruments Manufacturing Co. Pvt. Ltd.-Outstanding	27,384
102	Tribhuvan Automobile Service Centre-Outstanding	3,25,000
103	Vineet Chak-CPDA Payable-Outstanding	1,899
TOTAL		4,95,89,694





SCHEDULE - 4: FIXED ASSETS (CONSOLIDATED)

Sl. No	Assets Heads	Rate of Depreciation (%)	Gross Block				Depreciation for the Year				Net Block	
			Opening Balance 01.04.2024	Additions/ Re-classification	Deduction/ (Re-classification)	Closing Balance	Depreciation OB	Year	Total Depreciation	As on 31.03.2025	As on 31.03.2024	
1	2	3	4	5	6	7=4+5-6	8	9	10=8+9	11=12+5-6-9	12	
1	Land	0%	-	-	-	-	-	-	-	-	-	
2	Site Development	0%	-	-	-	-	-	-	-	-	-	
3	Buildings (New)	2%	54,05,77,980.00	-	-	54,05,77,980.00	2,72,01,431.96	1,98,11,559.60	3,80,12,991.56	50,25,64,988.44	51,33,76,548.04	
4	Building (Old)	2%	16,65,43,001.73	-	-	16,65,43,001.73	7,61,92,298.37	33,30,860.03	7,95,23,158.41	8,70,19,843.32	9,03,50,703.36	
5	Roads & Bridges	2%	4,51,166.00	-	-	4,51,166.00	27,069.96	9,023.32	36,093.28	4,15,072.72	4,24,096.04	
6	Sewerage & Drainage	2%	-	-	-	-	-	-	-	-	-	
7	Electrical Installation and Equipment	5%	12,25,28,261.97	14,17,701.00	-	12,39,45,962.97	12,25,05,967.24	70,885.05	12,25,76,852.29	13,46,815.95	-	
8	Plant & Machinery	5%	62,71,803.75	2,32,298.00	-	65,04,101.75	13,61,484.40	3,22,940.25	16,84,424.65	48,19,677.10	49,10,319.35	
9	Scientific & Laboratory Equipment	8%	9,24,07,709.00	21,14,772.00	1,87,450.20	9,43,35,030.80	1,81,87,539.36	75,42,066.88	2,57,29,606.24	6,86,05,424.56	7,42,20,169.64	
10	Office Equipment	7.5%	76,28,825.36	11,54,063.00	-	87,82,888.36	33,68,147.36	5,43,082.36	39,11,229.72	48,71,658.65	42,60,678.00	
11	Audio Visual Equipment	7.5%	39,43,683.24	9,08,810.00	-	48,52,493.24	9,23,848.07	3,67,334.25	12,91,182.32	35,61,310.92	30,19,835.17	
12	Computers & Peripherals	20%	2,80,78,421.80	8,70,321.00	-	2,89,48,742.80	2,57,60,281.80	24,82,904.40	2,82,43,186.20	7,05,556.60	23,18,140.00	
13	Furniture, Fixtures & Fittings	7.5%	3,31,07,064.09	40,54,914.00	-	3,71,61,978.09	2,44,63,018.60	11,06,567.57	2,55,69,586.17	1,15,86,344.57	86,37,998.14	
14	Vehicles	10%	65,63,829.00	-	-	65,63,829.00	56,93,235.90	4,72,811.00	61,66,046.90	3,97,782.10	8,70,593.10	
15	Lit. Books & Scientific Journals	10%	12,63,79,363.58	95,683.00	-	12,64,75,046.58	10,99,32,969.18	25,95,041.40	11,25,28,010.58	1,31,25,399.90	1,56,24,758.30	
16	Tube wells & Water Supply	2%	8,93,096.00	1,27,912.00	-	10,21,008.00	85,285.87	20,420.16	1,05,706.03	9,15,301.97	8,07,810.13	
17	Small Value Assets (Sports Equipment)	100%	1,27,023.00	-	-	1,27,023.00	-	-	-	-	-	
18	Equipment UNESCO AID	8%	24,97,217.00	-	-	24,97,217.00	24,97,217.00	-	24,97,217.00	-	-	
19	Sports Equipment	7.5%	-	11,51,166.00	-	11,51,166.00	-	86,337.45	86,337.45	10,64,828.55	-	
Total (A)			1,13,79,98,445.52	1,21,27,640.00	1,87,450.20	1,14,99,38,635.32	41,83,26,818.07	2,97,61,833.72	44,80,88,651.79	70,10,00,005.34	71,88,21,649.26	
20	Capital work in Progress (B)		52,35,52,445.00	18,32,23,476.00	19,27,386.00	70,48,48,535.00	-	-	-	70,48,48,535.00	52,35,52,445.00	
Sl. No	Intangible Assets	Rate of Depreciation (%)	Gross Block				Depreciation for the Year				Net Block	
			Opening Balance 01.04.2025	Additions	Deduction	Closing Balance	Depreciation OB	Year	Total Depreciation	As on 31.03.2025	As on 31.03.2024	
21	Computer Software	40%	3,97,13,601.00	5,40,768.00	-	4,02,54,369.00	3,93,59,601.00	5,70,307.20	3,99,29,908.20	3,24,460.80	3,54,000.00	
22	E-Journals	40%	8,99,97,446.00	1,13,45,725.00	-	10,13,43,171.00	8,11,44,970.80	1,11,79,389.64	9,23,24,360.44	90,18,810.56	88,52,475.20	
23	Patents	9 Years	15,000.00	-	-	15,000.00	6,666.68	1,666.67	8,333.35	6,666.65	8,333.32	
Total (C)			12,97,26,047.00	1,18,86,493.00	-	14,16,12,540.00	12,05,11,238.48	1,17,51,363.51	13,22,62,601.99	93,49,938.01	92,14,808.52	
Grand Total (A+B+C)			1,79,12,76,937.52	20,72,37,609.00	21,14,836.20	1,99,63,99,710.32	53,88,38,056.55	4,15,13,197.23	58,03,51,253.78	1,41,51,98,478.35	1,25,15,88,902.78	





SCHEDULE - 4 (A): PLAN FIXED ASSETS

Sl. No	Assets Heads	Rate of Depreciation (%)	Gross Block			Depreciation for the Year			Net Block		
			Opening Balance 01.04.2024	Additions/ Re-classification	Deduction/ (Re-classification)	Closing Balance	Depreciation OB	Depreciation for the Year	Total Depreciation	As on 31.03.2025	As on 31.03.2024
1	2	3	4	5	6	7=4+5-6	8	9	10=8+9	11=12+5+6-9	12
1	Land	0%	-	-	-	-	-	-	-	-	-
2	Site Development	0%	-	-	-	-	-	-	-	-	-
3-a	Buildings (From OH-35 (Capital) Grant)	2%	54,05,77,980.00			54,05,77,980.00	2,72,01,431.96	1,08,11,559.60	3,80,12,991.56	50,25,64,988.44	51,33,76,548.04
3-b	Building (Old)	2%	16,65,43,001.73			16,65,43,001.73	7,61,92,298.37	33,30,860.03	7,95,23,158.41	8,70,19,843.32	9,03,50,703.36
4	Buildings (From HEFA Loan)	2%									
5	Roads & Bridges	2%	4,51,166.00			4,51,166.00	27,069.96	9,023.32	36,093.28	4,15,072.72	4,24,096.04
6	Sewerage & Drainage	2%									
7	Electrical Installation and Equipment	5%	12,25,28,261.97	14,17,701.00		12,39,45,962.97	12,25,05,967.24	70,885.05	12,25,76,852.29	13,46,815.95	-
8	Plant & Machinery	5%	60,48,416.75	2,32,298.00		62,80,714.75	13,08,882.75	3,11,770.90	16,20,653.65	46,60,061.10	47,39,534.00
9	Scientific & Laboratory Equipment										
9-a	From OH-35 (Capital) Grant	8%	6,08,55,910.00	21,14,772.00	1,87,450.20	6,27,83,231.80	1,34,78,474.64	50,17,922.96	1,84,96,397.60	4,42,86,834.20	4,73,77,435.36
9-b	From HEFA Loan	8%	3,15,02,239.00	-	-	3,15,02,239.00	46,81,311.12	25,20,179.12	72,01,490.24	2,43,00,748.76	2,68,20,927.88
10	Office Equipment	7.5%	70,58,162.36	11,54,063.00		82,12,225.36	31,59,865.22	5,00,282.63	36,60,147.85	45,52,077.52	38,98,297.14
11	Audio Visual Equipment	7.5%	36,49,943.24	9,08,810.00		45,58,753.24	7,34,929.82	3,45,303.75	10,80,233.57	34,78,519.67	29,15,013.42
12	Computers & Peripherals	20%	2,46,71,000.80	8,70,321.00		2,55,41,321.80	2,23,71,460.40	24,73,604.60	2,48,45,065.00	6,96,256.80	22,99,540.40
13	Furniture, Fixtures & Fittings	7.5%	3,29,33,016.09	40,54,914.00		3,69,87,930.09	2,43,80,488.52	10,93,513.97	2,54,74,002.49	1,15,07,880.25	85,46,480.22
14	Vehicles	10%	65,63,829.00			65,63,829.00	56,93,235.90	4,72,811.00	61,66,046.90	3,97,782.10	8,70,593.10
15	Lib. Books & Scientific Journals	10%	12,62,53,306.58	95,683.00		12,63,48,989.58	10,98,66,716.28	25,82,435.70	11,24,49,151.98	1,30,78,201.50	1,55,64,954.20
16	Tube wells & Water Supply	2%	7,75,601.00	1,27,912.00		9,03,513.00	64,136.77	18,070.26	82,207.03	8,21,305.97	7,11,464.23
17	Small Value Assets (Sports Equipment)	100%	1,27,023.00			1,27,023.00	1,27,023.00		1,27,023.00		-
18	Equipment UNESCO AID	8%	24,97,217.00			24,97,217.00	24,97,217.00		24,97,217.00		-
19	Sports Equipment	7.5%	-	11,51,166.00		11,51,166.00	-	86,337.45	86,337.45	10,64,828.55	-
Total (A)			1,13,30,36,074.52	1,21,27,640.00	1,87,450.20	1,14,49,76,264.32	41,42,90,508.95	2,96,44,560.34	44,39,35,069.29	70,01,91,216.84	71,78,95,587.38
20	Capital work in Progress (B)		52,35,52,445.00	18,32,23,476.00	19,27,386.00	70,48,48,535.00		-	-	70,48,48,535.00	52,35,52,445.00
Intangible Assets											
21	Computer Software	40%	3,97,13,601.00	5,40,768.00	-	4,02,54,369.00	3,93,59,601.00	5,70,307.20	3,99,29,908.20	3,24,460.80	3,54,000.00
22	E-Journals	40%	8,99,97,446.00	1,13,45,725.00	-	10,13,43,171.00	8,11,44,970.80	1,11,79,389.64	9,23,24,360.44	90,18,810.56	88,52,475.20
23	Patents	9 Years	-	-	-	-	-	-	-	-	-
Total (C)			12,97,11,047.00	1,18,86,493.00	-	14,15,97,540.00	12,05,04,571.80	1,17,49,696.84	13,22,54,268.64	93,43,271.36	92,06,475.20
Grand Total (A+B+C)			1,78,62,99,566.52	20,72,37,609.00	21,14,836.20	1,99,14,22,339.32	53,47,95,080.75	4,13,94,257.18	57,61,89,337.93	1,41,43,83,023.20	1,25,06,54,507.58





SCHEDULE - 4 (B): NON PLAN FIXED ASSETS

S.No	Assets Heads	Rate of Depreciation (%)	Gross Block				Depreciation for the Year			Net Block	
			Opening Balance 01.04.2024	Additions	Deduction	Closing Balance	Depreciation OB	Depreciation for the Year	Total Depreciation	As on 31.03.2025	As on 31.03.2024
1	2	3	4	5	6	7=4+5-6	8	9	10=8+9	11=12+5-6-9	12
1	Land	0%	-	-	-	-	-	-	-	-	-
2	Site Development	0%	-	-	-	-	-	-	-	-	-
3	Buildings - New	2%	-	-	-	-	-	-	-	-	-
4	Buildings - Old	2%	-	-	-	-	-	-	-	-	-
5	Roads & Bridges	2%	-	-	-	-	-	-	-	-	-
6	Sewerage & Drainage	2%	-	-	-	-	-	-	-	-	-
7	Electrical Installation and Equipment	5%	-	-	-	-	-	-	-	-	-
8	Plant & Machinery	5%	2,23,387.00	-	-	2,23,387.00	52,601.65	11,169.35	63,771.00	1,59,616.00	1,70,785.35
9	Scientific & Laboratory Equipment	8%	49,560.00	-	-	49,560.00	27,753.60	3,964.80	31,718.40	17,841.60	21,806.40
10	Office Equipment	7.5%	5,70,663.00	-	-	5,70,663.00	2,08,282.14	42,799.73	2,51,081.87	3,19,581.13	3,62,380.86
11	Audio Visual Equipment	7.5%	2,93,740.00	-	-	2,93,740.00	1,88,918.25	22,030.50	2,10,948.75	82,791.25	1,04,821.75
12	Computers & Peripherals	20%	34,07,421.00	-	-	34,07,421.00	33,88,821.40	9,299.80	33,98,121.20	9,299.80	18,599.60
13	Furniture, Fixtures & Fittings	7.5%	1,74,048.00	-	-	1,74,048.00	82,530.08	13,053.60	95,583.68	78,464.32	91,517.92
14	Vehicles	10%	-	-	-	-	-	-	-	-	-
15	Lib. Books & Scientific Journals	10%	1,26,057.00	-	-	1,26,057.00	66,252.90	12,605.70	78,858.60	47,198.40	59,804.10
16	Tube wells & Water Supply	2%	1,17,495.00	-	-	1,17,495.00	21,149.10	2,349.90	23,499.00	93,996.00	96,345.90
17	Small Value Assets	100%	-	-	-	-	-	-	-	-	-
18	Equipment - UNESCO Aid	8%	-	-	-	-	-	-	-	-	-
Total (A)			49,62,371.00	-	-	49,62,371.00	40,36,309.12	1,17,273.38	41,53,582.50	8,08,788.50	9,26,061.88
19	Capital work in Progress	-	-	-	-	-	-	-	-	-	-
Total (B)			-	-	-	-	-	-	-	-	-
S.No	Intangible Assets	Rate of Depreciation	Gross Block				Depreciation for the Year			Net Block	
			Opening Balance 01.04.2024	Additions	Deduction	Closing Balance	Depreciation OB	Depreciation for the Year	Total Depreciation	As on 31.03.2025	As on 31.03.2024
20	Computer Software	40	-	-	-	-	-	-	-	-	-
21	E-Journals	40	-	-	-	-	-	-	-	-	-
22	Patents	9 Years	15,000.00	-	-	15,000.00	6,666.68	1,666.67	8,333.35	6,666.65	8,333.32
Total (C)			15,000.00	-	-	15,000.00	6,666.68	1,666.67	8,333.35	6,666.65	8,333.32
Grand Total (A+B+C)			49,77,371.00	-	-	49,77,371.00	40,42,975.80	1,18,940.05	41,61,915.85	8,15,455.15	9,34,395.20





SCHEDULE - 05: INVESTMENT FOR DESIGNATED, EARMARKED AND ENDOWMENT FUND

Particulars	FY 2024-25	FY 2023-24
	-	-
	-	-
TOTAL	-	-

SCHEDULE - 06: INVESTMENTS

FD No	Investment Date	Principal Amount	R.O.I	Maturity Amount	Interest Received in FY 2024-25	Accrued Interest in FY 2024-25	TDS in FY 2024-25	FY 2023-24
140173627956/1	28-08-2024	1,00,00,000	7.25	1,09,13,556	-	4,34,155	43,416	-
140198383349/1	29-11-2024	1,00,00,000	7.25	1,09,13,556	-	2,45,349	24,535	-
140198384586/1	29-11-2024	1,00,00,000	7.25	1,09,13,556	-	2,45,349	24,535	-
140204443036/1	31-12-2024	50,00,000	7.40	62,30,202	-	92,500	9,250	-
TOTAL		3,50,00,000		3,89,70,870	-	10,17,353	1,01,736	-





SCHEDULE - 7: CURRENT ASSETS

	PARTICULAR	FY 2024-25	FY 2023-24
1	Sundry Debtors:		
a	Debts outstanding for a period exceeding six months	5,14,152.68	5,14,152.68
2	Cash and Bank Balances		
a	In Saving Accounts		
b	Canara Bank SB A/c No. 2730101006939 (IRG)	2,44,52,529.54	4,95,97,798.29
c	Canara Bank online A/c. 2730101012610	1,52,978.89	9,04,765.50
d	HDFC Online Fees A/c.(50100537085095)	8,30,60,624.10	2,98,58,117.00
e	SBI (FLC) A/c.-41773834634	2,81,990.00	2,81,990.00
f	Canara Bank SB A/c No. 2730101011451(OH-31)	1,42,89,952.47	77,51,517.04
g	Canara Bank SB A/c No. 2730101011452(OH-36)	2,19,79,508.83	1,87,00,094.83
h	Canara Bank SB A/c No. 2730101011453(OH-35)	19,73,627.90	2,04,88,940.00
i	Canara Bank SB A/c No. 2730101011923(SERB Project I)	93,680.00	6,114.00
j	Canara Bank SB A/c No. 2730101012032 (Principal A/c)	1,60,76,765.07	1,54,50,073.07
k	Canara Bank SB A/c No. 2730101012429(SERB Project II)	18,27,440.07	20,06,280.00
l	Canara Bank SB A/c No. 2730101012033 (Escrow A/c.)	39,056.00	29,262.00
m	Canara Bank SB A/c.No.2730101001031 (Allumni Cell)	51,279.40	49,713.40
n	Canara Bank SB A/c No. 2730101012031 (Escrow A/c)	66,243.00	66,361.00
o	SBI Online Account -38979437865	9,16,739.16	64,27,931.08
p	Bank of Maharastra- 60427666707	4,41,272.00	6,68,774.00
q	Bank of Maharastra- 60449665345	49,346.00	
r	NIAMT External fund	1,78,848.00	
3	Cash		
a	Cash in hand	110.00	110.00
4	Allumni Fund Investment		
a	FDR/2730401001400/10	1,60,823.00	1,60,823.00
b	FDR/2730401001401/10	1,31,148.00	1,31,148.00
c	FDR/2730401001697/4	5,19,853.00	5,19,853.00
5	TDS Receivable	1,21,110.00	1,41,487.00
6	Grant Receivable from MoE - HEFA Interest	37,61,710.00	19,82,002.00
7	Grant Receivable from MoE - OH-31 Grant	3,10,44,226.00	93,88,877.22
8	Interest On Advance Receivable	6,621.00	-
9	Receivable from Radisson Blu Hostel	9,730.00	-
10	Accrued Interest on FDs	9,15,617.00	
	TOTAL	20,31,16,981.11	16,51,26,184.11



**SCHEDULE - 8: LOANS, ADVANCES & DEPOSITS**

	FY 2024-25	FY 2023-24
1 Advances to Employees: (Non Interest Bearing)		
a Expenses Advance	15,63,822.00	6,49,150.00
b Festival Advance		
c Leave Travel Concession Advance	8,33,675.00	3,34,249.00
d Medical Advance	6,59,488.00	5,12,188.00
e Travelling Advance	1,07,428.00	2,28,327.00
f Rolling Advance	4,64,422.00	4,32,806.00
g CPDA Advance	1,92,500.00	3,73,135.00
h Conference Advance	1,26,306.00	25,020.00
2 Advances to Employees: (Interest Bearing)		
a Computer Advance	53,600.00	30,800.00
b Car/Motorcycle/Scooter Advance		
3 Advances & Other amounts Recoverable		
I Institute Activities		
a NIFFT-Golden Jubilee Celebration	20,10,199.33	20,10,199.33
b Contribution to Annual Feast-JIINKS	16,00,000.00	16,00,000.00
c SBI online A/c -36228721268 (Old)	13,10,662.20	13,10,662.20
d Advance to NIFFT Student's Gymkhana	2,60,000.00	2,60,000.00
e SBI online A/c -38979437865 (New)		
II Advance to Suppliers		
a M/s Ed.CIL (India) Ltd. (for Campus Wide Networking)		
b M/s National Informatic Centre	3,38,73,670.00	3,38,73,670.00
c M/s Patents Info	15,000.00	15,000.00
d M/s Sreeleathers	3,235.00	3,235.00
e Central Public Works Department (CPWD)	19,80,84,763.00	11,95,28,054.00
f Advance to SPIC Macy	10,000.00	10,000.00
g Advance paid to Sharda Services		
h CarrierMedia Pvt. Ltd.	11,888.00	11,888.00
i Kirloskar Oil Engine Ltd.	95,934.00	58,174.00
j Abhishek Hembrom		-
k Hemant Kumar Gupta		-
l Hira Lal Das		-
m IIT, Delhi	5,31,000.00	5,31,000.00
n Roshni Kumari		-
o Vikash Prasad		-
p Software Technology Park of India	4,00,000.00	4,00,000.00
q Johnson Control Hitachi air conditioning india pvt ltd	-	79,301.00
r Advance to CMTI	1,38,82,228.00	-
4 Prepaid Expense		
a Pre Paid Internet Expenses	-	5,39,708.50
b Prepaid to AICTE	1,32,000.00	
c Security Deposit to BSNL	22,000.00	
d Prepaid to R S Computers	23,895.00	
5 Deposit with suppliers		
I Telephone		
a Security Deposit With P&T Department	29,550.00	29,550.00
II Electricity		
a Security Deposit With Jharkhand Electricity Board	17,21,261.00	17,21,261.00
III Medical		
a M/s. Mecon Ltd.	5,00,000.00	5,00,000.00
IV Academic		
a AICTE	1,88,047.00	1,88,047.00
b Security Deposit With Ranchi University	2,50,000.00	2,50,000.00
V Others		
a CBI Attachment	5,54,613.00	5,54,613.00
b Security Deposit & Earnest Money (O.B.)	2,16,707.00	2,16,707.00
c SBI (FDR) Scholar Fund	23,378.00	23,378.00
d Security Deposit With Jayant Gas Co.	32,501.00	32,501.00
e Student Welfare Fund	21,563.00	21,563.00
f Deposits Against Foreign Letter of Credit with Canara Bank	65,21,899.53	65,21,899.53
g Deposits Against FLC-140048019952	5,82,175.00	5,82,175.00
h Security Deposit-Alpha Indane Gas Agency	13,000.00	13,000.00
VI Income Accrued:		
a On Advance to Employees	14,143.00	14,143.00
VII Claims Receivable		
a Amount Receivable from M.tab	1,80,000.00	1,80,000.00
b Amount Receivable from Pensioners	56,450.00	56,450.00
c Income Tax (TDS) Refundable-Unrealized	4,96,476.00	4,96,476.00
d Rent Receivable from BSNL	21,000.00	21,000.00
e TDS - Unrealized	1,153.00	1,153.00
f Amount Receivable from Vikash Kumar (CCC)	-	100.00
g Medical Reimbursement Receivable (Aditya Kumar)	1,15,397.00	1,15,397.00
	26,78,07,029.06	17,43,55,980.56





SCHEDULE - 9: ACADEMIC RECEIPTS

PARTICULAR		FY 2024-25	FY 2023-24
FEES FROM STUDENTS			
1 Academic			
a Admission Fee - Institute		28,500.00	2,55,400.00
b Application Fee		12,000.00	20,000.00
c Computer Fee			
d Grade Card Fee		10,950.00	6,150.00
e Library Access Fee			
f Registration/Enrolment Fee		2,75,300.00	3,81,300.00
g Seat Rent			
h Tuition Fees		5,10,79,500.00	-
i Institute Fee		5,30,000.00	2,22,32,595.00
Total (A)		5,19,36,250.00	2,28,95,445.00
2 Examinations			
a Examination Fee-Institute		55,31,700.00	9,92,600.00
b Examination Fee-Ranchi University			
c Examination Fees-Jharkhand Technical University			
Total (B)		55,31,700.00	9,92,600.00
3 Other Fees			
a Fines & Penalties		16,507.00	-
b Gymkhana Fee			
c Hostel Fee			
d Hostel Maintenance Fee (Establishment Charges)		81,51,200.00	30,45,400.00
e Identity Card Fee (Re-issued)			50.00
f Other Fee (Computer, Internet Access, Library)		1,16,45,358.00	33,75,100.00
g Processing Fee		3,000.00	13,000.00
h Thesis Fee		14,900.00	8,200.00
i Late Fine		10,95,762.00	86,120.00
Total (C)		2,09,26,727.00	65,27,870.00
GRAND TOTAL (A+B+C)		7,83,94,677.00	3,04,15,915.00





SCHEDULE -10: GRANTS

PARTICULAR	Govt. of India(MOE)		FY 2024-25	FY 2023-24
	Plan*	Non Plan		
Grant of MOE (Closing Balance) for 2023-24 (b/f)	2,03,57,896	26,15,487	26,15,487	7,89,90,219
Add: Adjustment made during the Year 2024-25	(18,45,812)			
Effective Utilisation of Grant after adjustment	1,85,12,084			
Add: Receipts during the Year 24-25	21,75,00,000	42,55,00,000	42,55,00,000	28,50,00,000
Less: Amount Utilised during 24-25	22,53,23,747	43,66,35,084	43,66,35,084	36,13,74,732
Grant of MOE (Closing Balance) for 2024-25 (c/f)	1,06,88,337	(85,19,597)	(85,19,597)	26,15,487
Total			43,66,35,084	36,13,74,732

*For Information purpose only not part of Income & Expenditure A/c





SCHEDULE - 11: INCOME FROM INVESTMENTS

FD No	Investment Date	Principal Amount	R.O.I	Maturity Amount	Interest Received in FY 2024-25	Accrued Interest in FY 2024-25	TDS in FY 2024-25	FY 2023-24
140173627956/1	28-08-2024	1,00,00,000	7.25	1,09,13,556	-	4,34,155	43,416	-
140198383349/1	29-11-2024	1,00,00,000	7.25	1,09,13,556	-	2,45,349	24,535	-
140198384586/1	29-11-2024	1,00,00,000	7.25	1,09,13,556	-	2,45,349	24,535	-
140204443036/1	31-12-2024	50,00,000	7.40	62,30,202	-	92,500	9,250	-
TOTAL		3,50,00,000		3,89,70,870	-	10,17,353	1,01,736	-

SCHEDULE - 12: INTEREST EARNED

PARTICULAR	On Govt. Fund	On IRG	FY 2024-25	FY 2023-24
1. Interest on Saving Account with scheduled banks	26,57,539.00	36,87,074.10	63,44,613.10	16,65,599.00
Less: Interest earned on Govt. fund transferable to MOE			26,57,539.00	
2. Interest Earned as Income	-	-		-
3. Interest on Loans of Employees			9,621.00	55,120.00
Total (2+3)			36,96,695.10	17,20,719.00





SCHEDULE - 13: OTHER INCOME

PARTICULAR	FY 2024-25	FY 2023-24
A. Income from Land & Buildings		
1. Electricity Charges Recovered	1,66,782.75	1,27,901.50
2. Rent Recovered	-	2,09,715.00
3. License Fee Recovered	9,12,236.00	8,36,203.00
4. Water Charges Recovered	2,831.00	2,178.00
5. Rent for Ground	-	10,000.00
6. Rent for Auditorium	18,000.00	-
7. Rent of Cafeteria	4,800.00	2,400.00
8. Rent for Lecture Hall	2,000.00	
9. Guest House Room Rent	2,34,800.00	
10. PG Hostel Room Rent	1,61,650.00	
11. Rent for Institute Building/Quarters	1,024.00	
Total (A)	15,04,123.75	11,88,397.50
B. Income From Loans/Advances		
Interest on Computer Advance -Baijnath Nayak	11,278.00	-
Interest on Computer Advance -Jaipal nayak	9,350.00	-
Interest on Computer Advance -Nakul Ram	7,650.00	-
Interest on Computer Advance -Raju Ram	11,000.00	-
Interest on advances -others staff	6,840.00	-
Interest on Medical Advance -K .P.Panigrahi	47,794.00	-
Total (B)	93,912.00	-
C. Others		
1. Others Incomes		
a) Bus Charges Recovery	3,11,007.00	2,78,820.00
b) Certificate Verification & Transcript Fee	52,000.00	24,000.00
c) Liquidity Damage		
d) Interest Earned on FLC		36,936.00
2. Income From Consultancy		
3. Misc. Receipts		
4. Recruitment Fees	6,000.00	
5. RTI Fees	120.00	160.00
6. Mess Fees	-	
7. Fine and Penalty Recovery from Suppliers		
8. Tribble Area Allowance Recovery		
9. Other Income	25,741.00	17,775.00
10. Donation		
11. Ticket Cancellation Refund		
12. Overhead From Project		-
13. Institute Facility Charges	63,320.00	44,200.00
14. NCAMA Registration Fee		39,500.00
15. Income From Bus User Charges	5,900.00	
16. NCC Campaign Charges	12,500.00	
18. User Charges For Wire Cut EDM Charges	4,500.00	
19. User Charges For FTIR Machines	9,000.00	
20. User Charges For XRD Machines	73,200.00	
21. Processing Fee-Tender	35,000.00	
22. Gratuity Received	20,47,767.00	
23. Earned Leave Received	13,43,705.00	
24. Income from Income Tax Refund	4,48,637.00	
Total (C)	44,38,397.00	4,41,391.00
Grand Total (A+B+C)	60,36,432.75	16,29,788.50





SCHEDULE - 15: STAFF PAYMENTS & BENEFITS (ESTABLISHMENT EXPENSES)

PARTICULAR	FY 2024-25			FY 2023-24		
	Plan	Non Plan	Total	Plan	Non Plan	Total
1. Salaries and Wages						
a) Salaries and Wages(Teaching & Non Teaching)	-	20,22,78,476.00	20,22,78,476.00	-	16,42,91,159.00	16,42,91,159.00
b) Salary Arrear	-	50,58,905.00	50,58,905.00	-	33,56,145.00	33,56,145.00
2. Allowance and Bonus	-	-	-	-	-	-
3. Retirement and Terminal Benefits						
a) Composite Transfer/TA Grant	-	2,07,044.00	2,07,044.00	-	-	-
b) Encashment of Leave	-	77,44,153.00	77,44,153.00	-	27,12,090.00	27,12,090.00
c) Leave Salary & Pension Contribution - Director	-	4,73,808.00	4,73,808.00	-	4,70,948.00	4,70,948.00
d) Earned Leave	-	-	-	-	-	-
e) Payment of Gratuity	-	64,93,555.00	64,93,555.00	-	33,70,721.00	33,70,721.00
f) Pension	-	7,54,82,889.00	7,54,82,889.00	-	6,95,34,575.00	6,95,34,575.00
g) Commutation	-	89,75,725.00	89,75,725.00	-	32,01,560.00	32,01,560.00
h) Arrear to Pensioner	-	7,61,172.00	7,61,172.00	-	20,36,745.00	20,36,745.00
4. Leave Travel Concession facilities	-	18,90,939.00	18,90,939.00	-	11,50,755.00	11,50,755.00
5. Medical Facility	-	66,16,874.00	66,16,874.00	-	21,79,665.00	21,79,665.00
6. Children Education Allowance	-	21,99,250.00	21,99,250.00	-	11,56,050.00	11,56,050.00
7. Honorarium	-	5,000.00	5,000.00	-	5,000.00	5,000.00
8. Telephone Facility	-	6,59,927.00	6,59,927.00	-	5,56,577.00	5,56,577.00
9. CPDA Allowance	-	23,22,079.00	23,22,079.00	-	34,11,490.70	34,11,490.70
10. Staff Development & Training Expenses	-	6,16,405.00	6,16,405.00	-	1,14,856.00	1,14,856.00
11. Payment to Adhoc Staff	-	-	-	-	-	-
a) Salary to Contractual Faculty	-	13,25,003.00	13,25,003.00	-	44,29,325.00	44,29,325.00
b) Everest Human Resource-Manpower Supply	-	1,63,72,351.00	1,63,72,351.00	-	1,91,14,813.00	1,91,14,813.00
c) Bull Fighter Security-Manpower Supply	-	2,07,37,033.00	2,07,37,033.00	-	2,05,93,432.00	2,05,93,432.00
d) Salary-cook cum caretaker	-	58,275.00	58,275.00	-	-	-
e) Housekeeping & Sanitation	-	1,16,98,880.00	1,16,98,880.00	-	86,94,943.00	86,94,943.00
f) Other Services Outsourcing	-	-	-	-	16,328.00	16,328.00
g) Balajee Detective force-Manpower Supply	-	30,43,079.00	30,43,079.00	-	-	-
TOTAL	-	37,50,20,822.00	37,50,20,822.00	-	31,03,97,177.70	31,03,97,177.70





SCHEDULE - 16: ACADEMIC EXPENSES

PARTICULAR	FY 2024-25			FY 2023-24		
	Plan	Non Plan	Total	Plan	Non Plan	Total
1. Examination Expenses	-	8,03,630.00	8,03,630.00	-	2,30,278.00	2,30,278.00
2. Payment to Visiting Faculty	-	2,74,000.00	2,74,000.00	-	4,17,600.00	4,17,600.00
3. Admission Expenses	-	15,59,640.00	15,59,640.00	-	77,693.00	77,693.00
4. Stipend / Merit Cum Means Scholarship	-	-	-	-	-	-
a) Merit-Cum-Means Scholarship	-	(14,28,000.00)	(14,28,000.00)	-	13,94,000.00	13,94,000.00
b) Scholarship to M.Tech Students	-	-	-	-	-	-
c) Stipend to Advanced Diploma Course Students	-	17,24,659.00	17,24,659.00	-	24,20,300.00	24,20,300.00
d) Stipend to PhD Scholars	-	4,10,667.00	4,10,667.00	-	26,73,998.00	26,73,998.00
5. Student Welfare Expenses	-	-	-	-	-	-
a) Students Technical Activity	-	-	-	-	8,363.00	8,363.00
b) Student Sports Activity	-	47,320.00	47,320.00	-	66,252.00	66,252.00
c) Students Recreation Activities	-	-	-	-	-	-
d) Medical Insurance of Students	-	-	-	-	1,387.00	1,387.00
6. Laboratory & Workshop Expenses	-	12,56,690.57	12,56,690.57	-	8,88,995.00	8,88,995.00
7. Participation in Seminar & Conferences	-	-	-	-	-	-
8. Seminar/Workshop/Conference Expenses	-	1,94,054.00	1,94,054.00	-	24,876.00	24,876.00
9. Other Academic Expenses	-	-	-	-	1,39,367.00	1,39,367.00
10. Deemed University Fees	-	-	-	-	-	-
11. Subscription/Membership Fees	-	-	-	-	-	-
12. Financial Assistance for Courses/Seminar	-	-	-	-	-	-
13. NIAMT Registration Expenses	-	-	-	-	-	-
14. Membership Fees	-	-	-	-	-	-
15. IRG Expenditure	-	-	-	-	-	-
a). Examination Expenses-IRG	-	-	-	-	-	-
b). Guest House food charges	-	96,200.00	96,200.00	-	-	-
c). Seminar/Thesis Expenses	-	84,540.00	84,540.00	-	16,83,130.00	16,83,130.00
d). Student Medical Expenditure	-	48,667.00	48,667.00	-	-	-
e). Students Activity Gymkhana	-	-	-	-	2,36,619.00	2,36,619.00
f). Alumni Cell Expenses	-	-	-	-	24,922.00	24,922.00
g). Other Expenditure	-	6,000.00	6,000.00	-	3,11,195.00	3,11,195.00
h). Conference/Workshop by department	-	14,88,361.20	14,88,361.20	-	-	-
i). Institute Event	-	29,540.00	29,540.00	-	-	-
j). Hospitality Expenses- IRG	-	9,760.00	9,760.00	-	-	-
k). Website Development charges	-	25,000.00	25,000.00	-	-	-
16. Library Expenses	-	1,14,862.00	1,14,862.00	-	-	-
TOTAL	-	67,45,590.77	67,45,590.77	-	1,05,98,975.00	1,05,98,975.00





SCHEDULE - 17: ADMINISTRATIVE AND GENERAL EXPENSES

PARTICULAR	FY 2024-25			FY 2023-24		
	Plan	Non Plan	Total	Plan	Non Plan	Total
1) Infrastructure						
a) Electricity & Power						
a) D.G. Set Fuel Expenses		8,82,301.00	8,82,301.00	-	6,75,410.00	6,75,410.00
b) Jharkhand Bijli Vitran Nigam Ltd.		1,16,10,121.00	1,16,10,121.00	-	1,02,67,593.00	1,02,67,593.00
b) Rent, Rates and Taxes						
a) Lease Rent to M/s HEC Ltd.		51,804.00	51,804.00	-	51,804.00	51,804.00
b) Municipal Tax		40,21,603.00	40,21,603.00	-	20,99,237.00	20,99,237.00
2) Communication						
a) Telephone, Fax and Internet Charges						
a) M/s BSNL			-	-		-
b) Other Mobile & Landline		9,10,879.04	9,10,879.04	-	2,12,647.44	2,12,647.44
c) Internet Leased Line		9,77,349.00	9,77,349.00	-	9,77,350.00	9,77,350.00
b) Postage & Stationery Expenses			-	-		-
3) Others Expenditure						
I) Advertisement & Publicity		6,24,651.00	6,24,651.00		2,34,187.00	2,34,187.00
			-	-		-
II) Hospitality Expenses	-	8,76,710.00	8,76,710.00	-	61,230.00	61,230.00
III) Internal & CAG Auditor Remuneration	-	12,37,697.00	12,37,697.00	-	2,65,500.00	2,65,500.00
IV) Housekeeping & Sanitation	-	7,41,086.00	7,41,086.00	-	2,06,106.00	2,06,106.00
V) Printing & Stationary (Consumption)	-	10,23,356.00	10,23,356.00	-	7,74,868.00	7,74,868.00
VI) Security Expenses (a)		83,170.00	83,170.00	-	1,35,264.00	1,35,264.00
Jharkhand Home Guards (b)		1,16,40,272.00	1,16,40,272.00		83,16,000.00	83,16,000.00
VII) Sitting Charges for Meetings	-	4,61,540.00	4,61,540.00	-	6,01,480.00	6,01,480.00
VIII) Travelling & Conveyance	-	21,24,001.36	21,24,001.36	-	11,37,783.34	11,37,783.34
IX) Legal Expenses	-	2,28,570.00	2,28,570.00	-		-
X) Bank Charges	-	38,298.10	38,298.10	-	22,523.98	22,523.98
XI) Miscellaneous Expenditure	-	8,697.00	8,697.00	-	21,027.22	21,027.22
XII) Gardning & Horticulture	-	47,535.00	47,535.00	-	26,590.00	26,590.00
XIII) Office & Departmental Expenses (NIAMT)	-	16,71,229.00	16,71,229.00	-	18,02,701.00	18,02,701.00
XIV) Admin Function/Event	-	20,39,127.00	20,39,127.00	-	48,88,735.00	48,88,735.00
XV) Other Professional Fees	-	18,82,517.00	18,82,517.00	-	19,60,725.00	19,60,725.00
XVI) Guest House Expenses	-	1,13,265.00	1,13,265.00		1,10,423.00	1,10,423.00
XVII) Hostel Management Expenses	-	11,648.00	11,648.00		3,75,605.00	3,75,605.00
XVIII) Lab Exp-CIF Laboratory Bulding	-	4,956.00	4,956.00		-	-
XIX) Health Centre Expense	-	32,507.00	32,507.00		-	-
XX) Interest & Fine	-	1,59,091.00	1,59,091.00		-	-
TOTAL	-	4,35,03,980.50	4,35,03,980.50	-	3,52,24,789.98	3,52,24,789.98



**SCHEDULE- 18: TRANSPORTATION EXPENSES**

PARTICULAR	FY 2024-25			FY 2023-24		
	Plan	Non Plan	Total	Plan	Non Plan	Total
1. Vehicles (Owned by Institutions)						
a) Insurance Expenses	-	89,020.00	89,020.00	-	1,84,128.00	1,84,128.00
b) Running Expenses (Fuel)	-	4,22,150.00	4,22,150.00	-	4,51,551.00	4,51,551.00
c) Vehicles Repairs & Maintenance	-	1,69,047.00	1,69,047.00	-	1,92,620.00	1,92,620.00
2. Vehicles Hiring Expenses	-	-	-	-	5,659.00	5,659.00
Total	-	6,80,217.00	6,80,217.00	-	8,33,958.00	8,33,958.00

SCHEDULE- 19: REPAIRS & MAINTENANCE

PARTICULAR	FY 2024-25			FY 2023-24		
	Plan	Non Plan	Total	Plan	Non Plan	Total
1. Annual Maintenance Cost						
a) AMC of Others	-	1,92,433.00	1,92,433.00	-	2,13,464.00	2,13,464.00
b) AMC of Equipment	-	1,74,047.00	1,74,047.00	-	1,31,421.00	1,31,421.00
c) AMC of Water Purifiers	-	1,44,230.00	1,44,230.00	-	1,80,770.00	1,80,770.00
d) AMC of Software	-	34,69,880.00	34,69,880.00	-	6,50,040.00	6,50,040.00
2. Building Maintenance (Civil)	-	20,62,726.00	20,62,726.00	-	8,73,322.00	8,73,322.00
3. Cleaning Material & Services	-	94,084.00	94,084.00	-	80,818.00	80,818.00
4. Computer Maintenance	-	2,50,748.00	2,50,748.00	-	37,226.00	37,226.00
5. Electrical Maintenance	-	8,52,584.00	8,52,584.00	-	10,30,264.00	10,30,264.00
6. Furniture & Fixtures Maintenance	-	11,90,188.00	11,90,188.00	-	1,19,873.00	1,19,873.00
7. Office Equipments Maintenance	-	1,05,692.00	1,05,692.00	-	18,682.00	18,682.00
8. Repair & Maintenance-Lab Equipment	-	5,75,431.00	5,75,431.00	-	-	-
9. Plant & Machinery Maintenance	-	4,47,440.00	4,47,440.00	-	3,39,467.00	3,39,467.00
10. Software License Renewal	-	8,37,314.50	8,37,314.50	-	16,07,946.50	16,07,946.50
11. Tubewell & Water Supply Maintenance	-	67,760.00	67,760.00	-	-	-
12. Audio Visual Equipment Maintenance	-	72,492.00	72,492.00	-	-	-
Total	-	1,05,37,049.50	1,05,37,049.50	-	52,83,293.50	52,83,293.50





SCHEDULE- 22: Prior Period Expenses

PARTICULAR	FY 2024-25			FY 2023-24		
	Plan	Non Plan	Total	Plan	Non Plan	Total
Prior Period Expenses :						
DR Pension Arrear	-		-	-	5,93,181.00	5,93,181.00
Manpower Outsourcing	-		-	-	3,04,981.00	3,04,981.00
Pension Arrear	-	2,17,365.00	2,17,365.00	-	10,218.00	10,218.00
Travelling & Conveyance		2,26,845.33	2,26,845.33		3,06,457.48	3,06,457.48
Misc. Expenses	-	28,865.00	28,865.00	-	2,065.00	2,065.00
Telephone Reimbursement	-		-	-	12,041.00	12,041.00
Children Education Allowances	-	54,000.00	54,000.00			
Payment to Consultant	-	15,750.00	15,750.00			
Departmental Expense - ECE	-	3,145.00	3,145.00			
Lab Expense	-	3,356.00	3,356.00			
Legal Expense	-	12,200.00	12,200.00			
Maintenance	-	70,150.00	70,150.00			
Recruitment	-	1,18,800.00	1,18,800.00			
Repairs & Maintenance	-	14,730.00	14,730.00			-
CAG Audit Fee	-	4,29,156.00	4,29,156.00			
Internal Audit Fee	-	1,00,300.00	1,00,300.00			
Student Counselling Fee	-	7,500.00	7,500.00			
Prior period -IRG		62,637.00	62,637.00			
Academic Expenses		1,31,330.00	1,31,330.00			
Payment to Visiting Faculty		5,02,000.00	5,02,000.00			
Total	-	19,98,129.33	19,98,129.33	-	12,28,943.48	12,28,943.48



**SCHEDULE - 25: ACADEMIC RECEIPTS**

PARTICULARS	AMOUNT
1. Academic	
a. Admission Fee	1,400.00
b. Application Fee	12,000.00
c. Computer, Internet access & Library Fee	1,04,42,558.00
d. Grade & Identity Card Fee	150.00
e. Thesis Fees	500.00
f. Registration/Enrolment Fee	2,60,900.00
g. Seat Rent	69,55,600.00
h. Institute Tuition Fees	4,47,59,500.00
i. Processing Fees	3,000.00
j. Institute Fees	5,30,000.00
k. Examination Fees-Institute	55,12,600.00
(1) Sub Total	6,84,78,208.00
2. Other Fees	
a. Fine & Penalties	11,13,169.00
(2) Sub Total	11,13,169.00



**SCHEDULE - 26: OTHER INCOME**

PARTICULARS	AMOUNT
1. Other	
a. Bus Charges Recovery	2,85,247.00
b. Certificate/Transcript verification fees	52,000.00
c. Misc. Receipts (sale of Tender Form etc.)	35,000.00
d. RTI Fees	120.00
e. Mess Fees	
f. Recruitment Fees	6,000.00
g. Institute Facility Charges	57,800.00
h. NCC Campaign Charges	12,500.00
i. User Charges for Wire-cut EDM Machine	5,700.00
j. User Charges for FTIR Machine	6,800.00
k. User Charges for XRD Machine	24,300.00
l. Other Income	25,741.00
2. Income from Land & Building	
a. Electricity charges Recovered	1,56,309.75
b. Guest House Room Rent	2,34,800.00
c. Licence Fees	8,13,432.00
d. Water Charges Recovery	2,573.00
e. Rent of Cafeteria	4,800.00
f. Rent from Ground	
g. Rent from Auditorium	18,000.00
h. Rent from Lecture Hall	2,000.00
i. PG Hostel Room Rent	72,600.00
j. Rent for Institute Buildings	1,024.00
3. Other Income	
a. Gratuity Received	8,35,351.00
b. Leave Encashment	3,12,830.00
TOTAL	29,64,927.75





SCHEDULE - 27: MISCELLANEOUS RECEIPT INCLUDING LIABILITIES	
PARTICULARS	AMOUNT
1. Deposit From Staff	
2. Deposit From Student	
a. Caution Money	23,70,000.00
3. Statutory Liabilities	
a. GPF Deduction from Salary	1,23,01,518.00
b. GIS Premium	34,146.00
c. LIC Premium	9,81,026.00
d. New Pension Scheme (Employees Contribution)	85,19,246.00
e. New Pension Scheme (Employers Contribution)	1,19,26,908.00
f. Professional Tax on Salary	2,58,429.00
g. TDS Payable U/sec. 192A	2,83,79,704.00
h. TDS Payable U/sec. 194C	
i. TDS Payable U/sec. 194J	
j. CGST TDS 1%	
k. SGST TDS 1%	
l. IGST TDS 2%	
4. Other Current Liability	
i. Indian Statistical Institute	
ii. NIFFT Alumni Association	
iii. Amount Received From Unidentified Person	
iv. Expense Payable	5,76,10,530.00
v. Interest transferable to MOE	26,57,539.00
vi. Amount Received from AICTE For FDP Programme	2,50,000.00
vii. Amount Received from ANRF(SERB)	2,50,000.00
viii. Received From LIC	68,546.00
ix. Received for JINKS Pranav	1,63,000.00
x. Hostel Establishment Fund	1,83,81,965.00
xi. Student Activity Fund	21,81,110.00
xii. Student Medical Fund	26,08,000.00
xiii. Student Mess Fee Fund	2,62,03,259.00
xiv. Received for ICAFFT Conference	7,05,365.00
xv. Received from CATIA	1,01,000.00
xvi. Received from DASA 2024	10,000.00
xvii. Received from ISI Kolkata	56,320.00
xviii. Received from Python Programming	12,000.00
5. Other Liabilities	
Amount Received From AICTE	
Amount Received From CDPA Professional Development Allowance	9,298.00
Amount Received From CSAB	4,69,951.00
Amount Received From HEC Ltd.	51,804.00
Amount Received From Unidentified Person	
Central Coalfields Limited	
Amount received from SVNIT -CCMT 2024	1,18,210.00
Payable to GeM Suppliers	53,212.00
6. Deposit-Others	
i. Earnest Money	37,00,200.00
ii. Performance Security	1,13,367.00
iii. Security Deposit	25,000.00
TOTAL	18,05,70,653.00



**SCHEDULE - 28: DEPOSIT & ADVANCES**

PARTICULARS	AMOUNT
1. Advance to Supplier	
a. Advance to NICS for website shifting	
2. Advance to Employees (Interest Bearing)	
a. Car/Motorcycle/Scooter Advance	
b. Computer Advance	77,200.00
c. Medical Advance	75,000.00
3. Advance to Employees (Non Interest Bearing)	
a. Expenses Advance	15,35,233.93
b. Leave Travel Concession Advance	2,73,678.00
c. Medical Advance	3,126.00
d. Rolling Advance	1,53,883.00
e. Travelling Advance	95,395.00
f. CPDA Advance	85,711.00
g. Conference Advance	3,03,161.00
4. Claim Receivable	
a. Amount Receivable from Vikash Kumar (CCC)	100.00
TOTAL	26,02,487.93



**SCHEDULE - 29: NON-PLAN EXPENSES**

PARTICULARS	AMOUNT
1. Academic Expenses	
a. Examination Expenses (OH-31)	
b. Payment to Visiting Faculty	
c. Examination Expenses (JUT)	
d. Examination Expenses (RU)	
e. Stipend /Scholarship	
f. Caution Money	
(1) Sub Total	
2. Administrative General Expenses	
a. Communication	1,04,361.04
b. Admin Function/Events	7,170.00
c. Pension	6,88,34,783.00
d. Others Administrative Expenditure	10,41,405.69
e. Bank Charges	41,849.10
(2) Sub Total	7,00,29,568.83
3. Repair & Maintenance	10,620.00
(3) Sub Total	10,620.00
4. Staff Payments & Benefits (Est.Expenses)	
a. Allowances & Bonus	
b. Children Education Allowance	
c. Payment to Adhoc Staff	
d. Retirement & Terminal Benefits	
e. Salaries & Wages	18,55,00,406.00
f. Telephone Facility	
g. Terminal Benefit of Director	4,73,808.00
(4) Sub Total	18,59,74,214.00
5. Transportation Expenses	
a. Vehicles(Owned by Institution)	
(5) Sub Total	-
6. Recurring Expenditure	5,334.00
(6) Sub Total	5,334.00
TOTAL	25,60,19,736.83



**SCHEDULE - 30: PAYMENT AGAINST SPONSORED PROJECT AND FELLOWSHIP/SCHOLARSHIP**

A. RECEIPT AGAINST SPONSORED PROJECT	
PARTICULARS	AMOUNT
i) AICTE-Atal FDP Workshop	
ii) Project-Science & Engineering Research Board(S.Basu)	118.00
iii) Project-Science & Engineering Research Board (P.S.Mondal)	9,220.93
vi) Project-Science & Engineering Research Board (A.K.Pramanik)	1,573.00
TOTAL	10,911.93

B. RECEIPT AGAINST SPONSORED FELLOWSHIP/SCHOLARSHIP	
PARTICULARS	AMOUNT
i) Govt. of India SC/ST Scholarship	8,34,600.00
TOTAL	8,34,600.00

SCHEDULE - 31: PLAN FIXED ASSETS

PARTICULARS	AMOUNT
i) Capital Work in Progress	-
ii) HEFA Interest Payment	33,78,597.00
TOTAL	33,78,597.00



**SCHEDULE - 32: LOANS, ADVANCES & DEPOSITS**

PARTICULARS	AMOUNT
2.Advance to Employees (Non Interest Bearing)	
a. Expenses Advance	3,19,017.00
b. Rolling Advance	2,63,321.00
c. CPDA Advance	470.00
d. Conference Advance	2,99,420.00
TOTAL	8,82,228.00

SCHEDULE - 33: OTHER PAYMENTS

PARTICULARS	AMOUNT
2.Deposit-Other	
a. Earnest Money	24,69,200.00
b. Performance Security	1,55,483.00
3.Deposit From Students	
a. Caution Money	32,000.00
4.Other Current Liabilities	
a. Expnses Payable	47,55,30,019.10
b. CPDA Payable	21,13,543.00
c. Jharkhand University of Technology	60,242.00
d. Indian Statistical Institute	
e. Interest Transferable to MOE	25,33,523.00
f. GeM Suppliers	1,11,63,400.00
5. Outstanding Account	
a. Payable to Ajit Kumar Pramanick	11,310.00
b. Payable to Hefa	9,45,191.00
c. Payable to Pensioners	59,47,686.00
d. Payable to Teaching & Non- teaching Staffs	1,61,59,515.00
6.Statutory Liabilities	
a. GPF Deduction from Salary	1,22,99,518.00
b. GIS Premium	34,146.00
c. LIC Premium	9,81,026.00
d. New Pension Scheme(Employees Contribution)	94,57,962.00
e. New Pension Scheme(Employers Contribution)	1,32,41,064.00
f. TDS Payable 92A	3,30,80,283.00
g. TDS Payable 94C	18,66,147.00
h. TDS Payable 94J	15,61,953.00
i. CGST TDS 1%	7,78,627.00
j. IGST TDS 2%	6,46,796.00
k. Professional Tax on Salary	2,52,542.00
l. SGST TDS 1%	7,78,627.00
m. TDS Payable 94 I	
7. Student & Hostel Fund	
a. hostel Establishment Fund	27,000.00
b. Student Activity Fund	9,000.00
c. Student Medical Fund	6,000.00
d. Student Mess fee Fund	3,48,134.00
7. IRG Expenses	
Conference / Workshop department	1,32,595.70
TOTAL	59,26,22,532.80





NATIONAL INSTITUTE OF ADVANCED MANUFACTURING TECHNOLOGY
HATIA, RANCHI-834003

BANK RECONCILIATION STATEMENT AS ON 31.03.2025

1) CANARA BANK SB A/C NO. 2730101006939 (NON PLAN A/c)

Particulars	Amount
Balance as per Bank Book as on 31.03.2025	2,45,59,761.54
Less: Amount credited by bank but not debited in cash book.	1,07,432.00
Less: Amount credited in cash book but not debited by Bank	-
Add: Amount debited by bank but not credited in cash book.	-
Add: Amount debited in cash book but not credit by bank	200.00
Net Bank Balance as on 31.03.2025	2,44,52,529.54
Balance as per Cash Book as on 31.03.2025	2,44,52,529.54
Difference	-

2) CANARA BANK SB A/C NO. 2730101011451

Particulars	Amount
Balance as per Bank Book as on 31.03.2025	1,42,89,952.47
Less: Amount credited by bank but not debited in cash book.	-
Less: Amount credited in cash book but not debited by Bank	-
Add: Amount debited by bank but not credited in cash book.	-
Add: Amount debited in cash book but not credit by bank	-
Net Bank Balance as on 31.03.2025	1,42,89,952.47
Balance as per Cash Book as on 31.03.2025	1,42,89,952.47
Difference	-

3) CANARA BANK SB A/C NO. 2730101011452

Particulars	Amount
Balance as per Bank Book as on 31.03.2025	2,19,79,508.83
Less: Amount credited by bank but not debited in cash book.	-
Less: Amount credited in cash book but not debited by Bank	-
Add: Amount debited by bank but not credited in cash book.	-
Add: Amount debited in cash book but not credit by bank	-
Net Bank Balance as on 31.03.2025	2,19,79,508.83
Balance as per Cash Book as on 31.03.2025	2,19,79,508.83
Difference	-

4) CANARA BANK SB A/C NO. 2730101011453

Particulars	Amount
Balance as per Bank Book as on 31.03.2025	1,39,73,627.90
Less: Amount credited by bank but not debited in cash book.	-
Less: Amount credited in cash book but not debited by Bank	1,20,00,000.00
Add: Amount debited by bank but not credited in cash book.	-
Add: Amount debited in cash book but not credit by bank	-
Net Bank Balance as on 31.03.2025	19,73,627.90
Balance as per Cash Book as on 31.03.2025	19,73,627.90
Difference	-

5) CANARA BANK SB A/C NO. 2730101012429 (SERB Project II)

Particulars	Amount
Balance as per Bank Book as on 31.03.2025	12,60,140.07
Less: Amount credited by bank but not debited in cash book.	-
Less: Amount credited in cash book but not debited by Bank	-
Add: Amount debited by bank but not credited in cash book.	5,67,300.00
Add: Amount debited in cash book but not credit by bank	-
Net Bank Balance as on 31.03.2025	18,27,440.07
Balance as per Cash Book as on 31.03.2025	18,27,440.07
Difference	-





6) CANARA BANK ONLINE A/C NO. 2730101012610

Particulars	Amount
Balance as per Bank Book as on 31.03.2025	1,20,180.89
Less: Amount credited by bank but not debited in cash book.	-
Less: Amount credited in cash book but not debited by Bank	-
Add: Amount debited by bank but not credited in cash book.	33,377.00
Add: Amount debited in cash book but not credit by bank	-
Net Bank Balance as on 31.03.2025	1,53,557.89
Balance as per Cash Book as on 31.03.2025	1,53,557.89
Difference	-

7) SBI ONLINE A/C NO. 38979437865

Particulars	Amount
Balance as per Bank Book as on 31.03.2025	9,16,739.16
Less: Amount credited by bank but not debited in cash book.	-
Less: Amount credited in cash book but not debited by Bank	-
Add: Amount debited by bank but not credited in cash book.	-
Add: Amount debited in cash book but not credit by bank	-
Net Bank Balance as on 31.03.2025	9,16,739.16
Balance as per Cash Book as on 31.03.2025	9,16,739.16
Difference	-

8) HDFC BANK -FEE A/C NO.50100537085095

Particulars	Amount
Balance as per Bank Book as on 31.03.2025	8,36,70,018.10
Less: Amount credited by bank but not debited in cash book.	6,09,394.00
Less: Amount credited in cash book but not debited by Bank	-
Add: Amount debited by bank but not credited in cash book.	-
Add: Amount debited in cash book but not credit by bank	-
Net Bank Balance as on 31.03.2025	8,30,60,624.10
Balance as per Cash Book as on 31.03.2025	8,30,60,624.10
Difference	-

9) CANARA BANK SB A/C NO. 2730101011923 (SERB Project I)

Particulars	Amount
Balance as per Bank Book as on 31.03.2025	97,936.00
Less: Amount credited by bank but not debited in cash book.	-
Less: Amount credited in cash book but not debited by Bank	4,256.00
Add: Amount debited by bank but not credited in cash book.	-
Add: Amount debited in cash book but not credit by bank	-
Net Bank Balance as on 31.03.2025	93,680.00
Balance as per Cash Book as on 31.03.2025	93,680.00
Difference	-





राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान
समविविधविद्यालय (विशिष्ट श्रेणी)

हटिया, राँची - 834 003 (झारखण्ड)

National Institute of Advanced Manufacturing Technology
Deemed to be University (Distinct Category)
Hatia, Ranchi – 834 003 (Jharkhand)

शिक्षा मंत्रालय, भारत सरकार के अधीन एक केंद्रीय वित्त पोषित तकनीकी संस्थान
A Centrally Funded Technical Institute under Ministry of Education, Govt. of India



वित्तीय वर्ष 2024-25 के लिए सामान्य भविष्य निधि (जी पी एफ) खातों का लेखा विवरण

STATEMENT OF ACCOUNTS FOR
GENERAL PROVIDENT FUND (GPF) ACCOUNTS
FOR THE FINANCIAL YEAR 2024-25



NATIONAL INSTITUTE OF ADVANCED MANUFACTURING TECHNOLOGY

HATIA, RANCHI-834003
GENERAL PROVIDENT FUND ACCOUNT
BALANCE SHEET AS AT 31st MARCH, 2025

Previous Year 2023-24	Liabilities	Current Year 2024-25	Previous Year 2023-24	Assets	Current Year 2024-25
14,66,49,881.00	GPE Opening Balance Add: Subscription Add: Advances Recovered Less: Withdrawals Less: GPF Final settlements Add: Interest Credited Closing Balance	13,99,80,680.00 14,66,49,881.00 1,20,67,918.00 - 80,71,000.00 1,99,44,507.00 92,78,388.00 13,99,80,680.00	14,75,94,361.00	Investment in Term Deposit 2730401001442/20 3730401001848/12 2730401001442/24 2730401001442/23 140151963389/1 140151805105/1 140204836532/1 140205039495/1	13,57,60,234.00 4,37,45,848.00 1,03,83,739.00 74,79,345.00 1,06,84,779.00 1,34,66,523.00 1,00,00,000.00 2,00,00,000.00 2,00,00,000.00
38,40,050.38	Interest Reserve Opening Balance Less: Excess of Expense over Income Add: Excess of Income Over Expenditure	63,08,926.38 38,40,050.38 - 24,68,876.00	13,38,332.09	Accrued Interest TDS on FD Interest Cash at Bank Canara Bank SB A/c No. 2730101007115	45,31,707.00 15,39,220.09 44,58,445.29
15,04,89,931.38	Total	14,62,89,606.38	15,04,89,931.38	Total	14,62,89,606.38

As Internal Auditor
For M/s Mannohan Singh & Co.
Chartered Accountants



Arvind Pandey
Prof. Arvind Pandey
Registrar/c
Registrar
Director

राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology, Ranchi-3

उप कुलपति

Dy. Registrar

राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology, Ranchi-3

निदेशक
Director

राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology Ranchi-3



NATIONAL INSTITUTE OF ADVANCED MANUFACTURING TECHNOLOGY
HATIA, RANCHI-834003

GENERAL PROVIDENT FUND ACCOUNT
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH 2025

Previous Year 2023-24	EXPENDITURE	Current Year 2024-25	Previous Year 2023-24	INCOME	Current Year 2024-25
96,41,916.00	Interest credited to GPF Account	92,78,388.00	76,10,688.00	Interest Earned on Investment	1,15,37,042.00
	a. Accrued Interest	1,00,04,618.00		Interest received on FDR	68,35,081.00
	b. Actual Interest Paid	7,26,230.00		Add: Interest accrued on 31.03.2025	47,01,961.00
715.00	Bank Charges	11.00		Less: Interest Accrued on 31.03.2024	-
	Excess of Income over Expenditure	24,68,876.00	4,35,755.00	Interest on Saving Bank Account	2,10,233.00
			15,96,188.00	Interest on FDR	-
				Excess of Expenditure over Income	-
96,42,631.00	TOTAL	1,17,47,275.00	96,42,631.00	TOTAL	1,17,47,275.00

As Internal Auditor
For M/s Manmohan Singh & Co.
Chartered Accountants



CA J. P. Sharma
(Partner)
M.NO. 402655

Prof. Arvind Pandey
Prof. Arvind Pandey
Registrar

राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology, Ranchi-3

निदेशक
Director

राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology, Ranchi-3

K. P. Panigrahi
K. P. Panigrahi
Dy. Registrar

उप निदेशक
Dy. Registrar
राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology, Ranchi-3



NATIONAL INSTITUTE OF ADVANCED MANUFACTURING TECHNOLOGY

HATIA, RANCHI-834003

GENERAL PROVIDENT FUND ACCOUNT
RECEIPT AND PAYMENT ACCOUNT FOR FINANCIAL YEAR ENDED 31st MARCH 2025

Previous Year 2023-24	RECEIPTS	Current Year 2024-25	Previous Year 2023-24	PAYMENTS	Current Year 2024-25
1,20,80,004.29	Opening Balance	15,57,238.29	17,79,471.00	GPF Final Settlement	1,99,44,507.00
1,27,65,016.00	Canara Bank SB A/c No. 2730101007115	1,20,67,918.00	49,43,351.00	GPF Withdrawal	80,71,000.00
	GPF Subscription		715.00	Bank Charges	11.00
	Received from FDR			Investment in FDR	
	2730307000001/7	1,02,36,483.00		140151805105/1	1,00,00,000.00
	2730401001442/21	2,03,45,314.00	1,00,00,000.00	140151963389/1	1,34,66,523.00
	2730401001442/22	24,50,371.00	70,00,000.00	140204836532/1	2,00,00,000.00
	2730401001627/7	2,16,20,737.00		140205039495/1	2,00,00,000.00
	2730401002217/9	1,34,66,521.00			
	2730401002218/9	1,34,66,523.00			
4,35,755.00	Interest on Saving Bank Account	2,10,233.00		Closing Balance	44,58,445.29
	Interest on Fixed Deposit	5,19,148.00	15,57,238.29	Canara Bank SB A/c No. 2730101007115	
2,52,80,775.29	TOTAL	9,59,40,486.29	2,52,80,775.29	TOTAL	9,59,40,486.29

As Internal Auditor
For M/s Manmohan Singh & Co.
Chartered AccountantsCA J. P. Sharma
(Partner)
M.NO. 402655
Prof. P. P. Chattopadhyay
Director
निदेशकराष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology, Ranchi-3
Prof. Arvind Pandey
Registrar
Registralarराष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology, Ranchi-3
K. P. Panigrahi
Dy. Registrar
Dy. Registrarराष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology, Ranchi-3



NATIONAL INSTITUTE OF ADVANCED MANUFACTURING TECHNOLOGY

HATIA, RANCHI-834003

GENERAL PROVIDENT FUND ACCOUNT DETAILS OF TERM DEPOSITS AS ON 31.03.2025

(A) Values of FDs in as on 31.03.2025									
Sl.	Account Number	Date of Investment/ Reinvestment	Date of maturity	Bank	Rate of Interest	Principal	Total Interest Received	Accrued Interest as on 31.03.2025	TDS on FD
1	2730401001442/20	20-07-2024	20-07-2025	CANARA	7.65%	4,37,45,848	-	23,74,781	68,550.00
2	2730401001848/12	12-02-2025	12-02-2026	CANARA	6.85%	1,03,83,739	-	96,814	9,681.00
3	2730401001442/24	30-03-2025	30-03-2026	CANARA	6.85%	74,79,345	-	1,423	142.00
4	2730401001442/23	30-03-2025	30-03-2026	CANARA	6.85%	1,06,84,779	-	2,033	203.00
5	140151963389/1	22-05-2024	09-08-2025	CANARA	7.25%	1,34,66,523	-	8,59,153.00	10,732.00
6	140151805105/1	21-05-2024	08-08-2025	CANARA	7.25%	1,00,00,000	-	6,40,090.00	8,179.00
7	140204836532/1	02-01-2025	02-01-2028	CANARA	7.40%	2,00,00,000	-	3,65,889.00	36,589.00
8	140205039495/1	03-01-2025	03-01-2028	CANARA	7.40%	2,00,00,000	-	3,61,778.00	36,178.00
TOTAL (A)						13,57,60,234.00	-	47,01,961.00	1,70,254.00
(B) Details of Total Interest Received, Accrued Interest and TDS on FDs in FY 2024-25									
1	2730401002217/9	20-05-2023	20-05-2024	CANARA	7.00%	1,25,63,706	2,31,611	-	-
2	2730401002218/9	20-05-2023	20-05-2024	CANARA	7.00%	1,25,63,707	2,31,611	-	-
3	2730307000001/6	25-05-2023	25-05-2024	CANARA	6.50%	96,13,329	6,23,154	-	-
4	2730307000001/7	25-05-2024	25-05-2025	CANARA	6.25%	1,02,36,483	1,82,995	-	-
5	2730401001442/14	20-07-2023	20-07-2024	CANARA	6.00%	4,12,16,649	12,83,426	-	-
6	2730401001442/16	26-10-2023	26-10-2024	CANARA	6.90%	1,90,00,000	10,17,564	-	-
7	2730401001442/21	26-10-2024	26-10-2025	CANARA	6.85%	2,03,45,314	1,58,721	-	-
8	2730401001442/17	27-10-2023	27-10-2024	CANARA	6.90%	22,88,342	1,22,555	-	-
9	2730401001442/22	27-10-2024	27-10-2025	CANARA	6.90%	24,50,371	18,831	-	-
10	2730401001627/6	15-11-2022	30-10-2024	CANARA	6.25%	1,91,47,915	9,29,407	-	-
11	2730401001627/7	30-10-2024	15-10-2026	CANARA	6.85%	2,16,20,737	1,58,601	-	-
12	2730401001848/11	12-02-2024	12-02-2025	CANARA	6.85%	97,01,892	6,81,847	-	-
13	2730401001442/19	30-03-2024	30-03-2025	CANARA	6.85%	70,00,000	4,91,959	-	12,614.00
14	2730401001442/18	30-03-2024	30-03-2025	CANARA	6.85%	1,00,00,000	7,02,799	-	18,020.00
TOTAL (B)						68,35,081.00	68,35,081.00	47,01,961.00	30,634.00
TOTAL OF INTEREST RECEIVED, ACCRUED INTEREST & TDS ON FD FROM (A) AND (B)						68,35,081.00	68,35,081.00	47,01,961.00	2,00,888.00



**NATIONAL INSTITUTE OF ADVANCED MANUFACTURING TECHNOLOGY****HATIA, RANCHI-834003****Bank Reconciliation Statement as on 31.03.2025****1) CANARA BANK SB A/C NO. 2730101007115 (NIFT GPF A/C)**

Particulars	Amount
Balance as per Ledger as on 31.03.2025	44,58,445.29
Balance as per Bank Statement as on 31.03.2025	44,58,445.29
Difference	-





राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान
समविश्वविद्यालय (विशिष्ट श्रेणी)

हटिया, राँची - 834 003 (झारखण्ड)

National Institute of Advanced Manufacturing Technology
Deemed to be University (Distinct Category)
Hatia, Ranchi – 834 003 (Jharkhand)

शिक्षा मंत्रालय, भारत सरकार के अधीन एक केंद्रीय वित्त पोषित तकनीकी संस्थान
A Centrally Funded Technical Institute under Ministry of Education, Govt. of India



वित्तीय वर्ष 2024-25 के लिए

तकनीकी शिक्षा गुणवत्ता सुधार कार्यक्रम (टी ई क्यू आई पी) खातों का लेखा विवरण

STATEMENT OF ACCOUNTS FOR
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME (TEQIP) ACCOUNT
FOR THE FINANCIAL YEAR 2024-25



NATIONAL INSTITUTE OF ADVANCED MANUFACTURING TECHNOLOGY

HATIA, RANCHI-834003

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME ACCOUNT

BALANCE SHEET AS AT 31st MARCH, 2025

SOURCES OF FUNDS	Schedule	Current Year 2024-25	Previous Year 2023-24
CORPUS/CAPITAL FUND	1	96,03,951.56	1,25,81,126.26
TOTAL		96,03,951.56	1,25,81,126.26
APPLICATION OF FUNDS			
FIXED ASSETS	2	77,45,013.45	1,07,22,188.15
CURRENT ASSETS	3	1,255.00	1,255.00
LOANS, ADVANCES & DEPOSITS	4	18,57,683.11	18,57,683.11
TOTAL		96,03,951.56	1,25,81,126.26

As Internal Auditor
For M/s Manmohan Singh & Co.
Chartered Accountants



[Signature]
Prof. P. P. Chattopadhyay
Director

[Signature]
Prof. Arvind Pandey
Registrar

राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology, Ranchi-3

[Signature]
K. P. Panigrahi
Dy. Registrar

[Signature]
Dy. Registrar
राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology, Ranchi-3

निदेशक
Director
राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology, Ranchi-3



NATIONAL INSTITUTE OF ADVANCED MANUFACTURING TECHNOLOGY

HATIA, RANCHI-834003

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME ACCOUNT

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED ON 31st MARCH, 2025

INCOME	Schedule	Current Year 2024-25	Previous Year 2023-24
GRANTS	-	-	-
OTHER INCOME	-	-	-
TOTAL(A)		-	-

EXPENDITURE	Schedule	Current Year 2024-25	Previous Year 2023-24
OTHER EXPENSES	-	29,77,174.70	29,77,174.70
DEPRECIATION	2	29,77,174.70	29,77,174.70
TOTAL(B)		(29,77,174.70)	(29,77,174.70)
Balance Being Deficit Carried to Capital Fund			

As Internal Auditor
For M/s Manmohan Singh & Co.
Chartered Accountants



CA J. P. Sharma
(Partner)
M.NO. 402655

[Signature]
Prof. P. P. Chattopadhyay
Director

निदेशक
Director

राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology Ranchi-3

[Signature]
Prof. Arvind Pandey
Registrar

राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology Ranchi-3

[Signature]
K. P. Panigrahi
Dy. Registrar

राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology Ranchi-3



NATIONAL INSTITUTE OF ADVANCED MANUFACTURING TECHNOLOGY

HATIA, RANCHI-834003

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME ACCOUNT

RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED 31.03.2025

Previous Year 2023-24	RECEIPTS	Current Year 2024-25	Previous Year 2023-24	PAYMENTS	Current Year 2024-25
1,255.00	Opening Balances A) Cash Balances B) Bank Balances	1,255.00	-	Expenses Bank Charges	-
-		-	-	Transferred to NIAMT IRG A/c	-
			1,255.00	Closing Balances A) Cash Balances B) Bank Balances	1,255.00
1,255.00		1,255.00	1,255.00		1,255.00

As Internal Auditor
For M/s Manmohan Singh & Co.
Chartered Accountants



CA J. P. Sharma

(Partner)

M.NO. 402655

Prof. P. P. Chattopadhyay
Director

निदेशक
Director

राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology, Ranchi-3

Prof. Arvind Pandey
कलसत्राध्यक्ष
Registrar I/c

राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology, Ranchi-3

K. P. Panigrahi
Dy. Registrar

उप-कलसत्राध्यक्ष
Dy. Registrar
राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology, Ranchi-3



SCHEDULE - 1 - CORPUS/CAPITAL FUND

Particulars	Current Year	Previous Year
Balance at the beginning of the year	1,25,81,126.26	1,55,58,300.96
Add: Contributions towards Corpus/Capital fund	-	-
Add: Grants Received	-	-
Add: Excess of Income over Expenditure transferred from the Income & Expenditure Account	-	-
TOTAL	1,25,81,126.26	1,55,58,300.96
Deduct: Deficit transferred from Income & Expenditure Account	(29,77,174.70)	(29,77,174.70)
Balance at the year end	96,03,951.56	1,25,81,126.26



**SCHEDULE - 2- TEQIP FIXED ASSETS (O.B)**

S.No	Assets Heads	Opening Balance	Additions	Deductions	Total	Depreciation for the Year	Closing Balance
1	2	3	4	5	6	7	8
1	Scientific & Laboratory Equipment	1,07,22,188.15	-	-	1,07,22,188.15	29,77,174.70	77,45,013.45
	Total (C)	1,07,22,188.15	-	-	1,07,22,188.15	29,77,174.70	77,45,013.45

SCHEDULE- 3 - CURRENT ASSETS(OB)

Particulars	Current Year 2024-25	Previous Year 2023-24
cash in Hand	1,255.00	1,255.00
Total	1,255.00	1,255.00

SCHEDULE- 4 - LOANS & ADVANCES(OB)

Particulars	Current Year 2024-25	Previous Year 2023-24
1. M/s Ed.CIL (India) Ltd.	11,23,225.00	11,23,225.00
2. M/s NIFFT	31,529.00	31,529.00
3. National Institute of Advanced Manufacturing Technology	7,02,929.11	7,02,929.11
Total	18,57,683.11	18,57,683.11





राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान

समविश्वविद्यालय (विशिष्ट श्रेणी)

हटिया, राँची - 834 003 (झारखण्ड)

National Institute of Advanced Manufacturing Technology

Deemed to be University (Distinct Category)

Hatia, Ranchi – 834 003 (Jharkhand)

शिक्षा मंत्रालय, भारत सरकार के अधीन एक केंद्रीय वित्त पोषित तकनीकी संस्थान

A Centrally Funded Technical Institute under Ministry of Education, Govt. of India



वित्तीय वर्ष 2024-25 के लिए राष्ट्रीय पेंशन प्रणाली (एनपीएस) खातों का लेखा विवरण

STATEMENT OF ACCOUNTS FOR

NATIONAL PENSION SYSTEM (NPS) ACCOUNTS

FOR THE FINANCIAL YEAR 2024-25



NATIONAL INSTITUTE OF ADVANCED MANUFACTURING TECHNOLOGY

HATIA, RANCHI-834003

NPS ACCOUNT

BALANCE SHEET AS AT 31st MARCH, 2025

Previous Year 2023-24	Liabilities	Current Year 2024-25	Previous Year 2023-24	Assets	Current Year 2024-25
	Current Liabilities			Current Assets	
11,99,154.00	Employer Contribution - Received - March-25 Teaching & Non-Teaching	10,19,478.00	11,99,154.00	Employer Contribution - Receivable - March-25 Teaching & Non-Teaching	10,19,478.00
7,64,467.00	Employee Contribution - Received - March 25 Teaching & Non-Teaching	7,28,205.00	7,64,467.00	Employee Contribution - Receivable- March 25 Teaching & Non-Teaching	7,28,205.00
19,63,621.00	Total	17,47,683.00	19,63,621.00	Total	17,47,683.00

k

K. P. Panigrahi
Dy. RegistrarProf. Arvind Pandey
Registrarराष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology, Ranchi-3Prof. P. P. Chattopadhyay
Directorराष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology, Ranchi-3

निदेशक

Director

राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology Ranchi-3As Internal Auditor
For M/s Manmohan Singh & Co.
Chartered AccountantsCA T. P. Sharma
(Partner)

M.NO. 402655



NATIONAL INSTITUTE OF ADVANCED MANUFACTURING TECHNOLOGY
HATIA, RANCHI-834003

NPS ACCOUNT
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH 2025

Previous Year 2023-24	EXPENDITURE	Current Year 2024-25	Previous Year 2023-24	INCOME	Current Year 2024-25
	Excess of Income over Expenditure	-			
				Excess of Expenditure over Income	-
-	TOTAL	-	-	TOTAL	-

As Internal Auditor
For M/s Mannohan Singh & Co.
Chartered Accountants



Prof. P. P. Chattopadhyay
Director

Prof. Arvind Pandey
Registrar I/c
Registrar

राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology, Ranchi-3

निदेशक
Director

राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology Ranchi-3

K. P. Panigrahi
Dy. Registrar

राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology, Ranchi-3



NATIONAL INSTITUTE OF ADVANCED MANUFACTURING TECHNOLOGY

HATIA, RANCHI-834003

NPS ACCOUNT
RECEIPT AND PAYMENT ACCOUNT FOR FINANCIAL YEAR ENDED 31st MARCH 2025

Previous Year 2023-24	RECEIPTS	Current Year 2024-25	Previous Year 2023-24	PAYMENTS	Current Year 2024-25
22,66,036.00	Opening Balance	19,63,621.00			
80,48,139.00	Employer Contribution - Received Teaching & Non-Teaching	1,32,87,392.00	82,24,557.00	Employer Contribution - Paid Teaching & Non-Teaching	1,32,41,064.00
57,48,748.00	Employee Contribution - Received Teaching & Non-Teaching	94,91,385.00	58,74,745.00	Employee Contribution - Paid Teaching & Non-Teaching	94,57,962.00
			19,63,621.00	Closing Balance	20,43,372.00
1,60,62,923.00	TOTAL	2,47,42,398.00	1,60,62,923.00	TOTAL	2,47,42,398.00

As Internal Auditor
For M/s Manmohan Singh & Co.
Chartered Accountants



CA J. P. Sharma
(Partner)
M.NO. 402655

Prof. P. P. Chattopadhyay
Director

निदेशक
Director

राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology Ranchi-3

Prof. Arjun Kumar
Registrar

राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology, Ranchi-3

K.P. Danigrahi
Dy. Registrar

राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology, Ranchi-3



**NATIONAL INSTITUTE OF ADVANCED MANUFACTURING TECHNOLOGY
HATIA, RANCHI - 834003**

SIGNIFICANT ACCOUNTING POLICIES AND NOTES ON ACCOUNTS

[Financial Year: 2024-25]

PART-A: SIGNIFICANT ACCOUNTING POLICIES

1. General Policy:

The Financial Statement are prepared in three parts i.e. (i) Receipts and Payments Account, (ii) Income and Expenditure Account, and (iii) Balance Sheet along with three other separate accounts of the Institute viz. (i) General Provident Fund (GPF) Account, (ii) National Pension System (NPS) Account, and (iii) Technical Education Quality Improvement Program (TEQIP) Account. The Annual Accounts of the Institute for FY 2024-25 are prepared on the revised "Formats of Financial Statements for Central Higher Education Institutions" as suggested by the Ministry of Education, Department of Higher Education, Government of India, Shastri Bhawan, New Delhi, vide F. No. 29-4/2012-IFD, dated 17th April 2015.

2. Accounting Convention:

The Annual Accounts are prepared under the Historic Cost Convention and Ongoing Concern Concept, unless otherwise stated, and on Accrual Method of Accounting.

3. Revenue Recognition:

- (i) The Institute is funded by the Ministry of Education, Govt, of India. The Government releases the Grant-in-Aid under three major heads, viz. (i) OH-31 (General Grant), (ii) OH-36 (Salary Grant), and (iii) OH-35 (Capital Grant). Grant-in-aid from the Government of India is accounted in the same financial year in which it is received.
- (ii) The Institute, by way of its own nature/character, generates certain internal income by way of fees and other charges. The major sources are various fees paid by the students, interest earned on investments, consultancy and testing fees and other miscellaneous income.
- (iii) Fees from the students and Interest on Savings Bank Accounts are accounted on Cash Basis, and other incomes are accounted on accrual basis.
- (iv) Interest on Interest Bearing Advances to staff for purchase of computers and medical expenses are accounted on accrual basis in the year of advance, though the actual recovery of interest starts after full recovery of principal amount.



**6. Terminal/Retiral Benefits:**

All the Terminal/Retiral Benefits such as Gratuity, Leave Encashment, Commuted Value of Pension are accounted as expenses on cash basis in the year of payment. Similarly, amount received from other organizations for transfer past service of employees joining the Institute through proper channel and after Technical resignation are also accounted as income on cash basis in the year of receipt. No Actuarial Evaluation is done for accounting of Terminal/Retiral Benefits.

7. Work-in-Progress:

Deposit Works are accounted for as Work-in-Progress (WIP) on the basis of inputs received from Central Public Works Department (CPWD) in Form-65. Running Bills of contractors are also accounted as Work-in-Progress till completion of the work. No depreciation is charged on WIP. Secured Advances and Mobilization Advances being in the nature of advances are disclosed separately under the head Loans & Advances.

8. Investments:

Investments represent amount held in the form of Fixed Deposit / Term Deposit with banks as per the guidelines issued by Government of India / Reserve Bank of India. No investments are made by the Institute in tradable securities. The investments are valued at cost.

9. Corpus/Capital Fund:

The excess Income over Expenditure is added to the Corpus/Capital Fund and the excess Expenditure over Income is deducted from the Corpus/Capital Fund. Besides, Capital Grant utilized during the year is fully transferred to the Corpus/Capital Fund.

10. Foreign Currency Transactions:

Foreign Currency Transactions are accounted at the rate of exchange prevailing on the date of such transactions.

11. Provisions:

Provision for all known liabilities recognized up to the date of finalization of accounts, such as Auditor Fees, Salary and Pension Payable for the month of March, etc. are provided as such.

12. Income Tax:

The Institute is exempted from Income Tax as per the provision of Section 10(23C)(iii)(ab) of the Income Tax Act, 1961. Therefore, no provision for Income Tax is made.

13. Purchase through Institute's Stores & Purchase Unit:

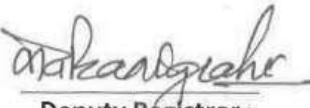
Payments made/cheques issued for purchase of consumable and non-consumable stocks against the confirmed Purchase Orders released by Institute's Stores and Purchase Unit are treated as final expenditure.

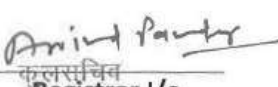


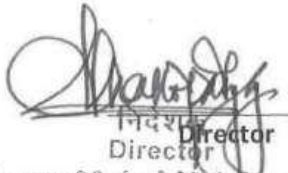


PART-B: NOTES ON THE ACCOUNTS

1. As the General Provident Fund (GPF) Accounts are owned by members of those Funds and not by the Institute, the GPF Account is shown as a separate account from FY 2015-16. A Receipt & Payment Account, an Income & Expenditure Account (on Accrual Basis) and a Balance Sheet have been attached to the Institute Accounts as separate accounts.
2. As the National Pension System (NPS) Accounts are owned by members of those Funds and not by the Institute, the NPS Account is shown as a separate account from FY 2024-25. A Receipt & Payment Account, an Income & Expenditure Account (on Accrual Basis), and a Balance Sheet have been attached to the Institute Accounts as separate accounts.
3. Expenditure in Foreign Currency - NIL
4. In the opinion of the Institute, the Current Assets, Loans, Advances and Deposits have a value on realization in the ordinary course, which is at least equal to the aggregate amount shown in the Balance Sheet.
5. Previous year's Figures have been regrouped/rearranged wherever found necessary.
6. Schedule 1 to 33 are annexed to and bears an integral part of Balance Sheet as of 31st March 2025 and Income and Expenditure account for the year ended on that date.


Deputy Registrar
Dy. Registrar
राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology, Ranchi-3


Registrar I/c
Registrar
राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology, Ranchi-3


Director
Director
राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान, राँची-3
National Institute of Advanced Manufacturing Technology Ranchi-3

For M/s Manmohan Singh & Co., Chartered Accountants



CA J. P. Sharma, Partner (M.NO. 402655)
(As Internal Auditor)



- 96 18-12-2025



Indian Audit & Accounts Department
Office of the Principal Director of Audit (Central), Lucknow
Branch Office: Ranchi, Jharkhand,
PAG Office Main Building, 5th floor, Doranda,
Ranchi-834 002

To

The Director,
National Institute of Advanced Manufacturing Technology
(NIAMT), Ranchi

Subject: Separate Audit Report on the accounts of National
Institute of Advanced Manufacturing Technology (NIAMT), Ranchi
for the Year 2024-25.

Sir,

I enclose a Separate Audit Report (SAR) on the Annual Accounts of National
Institute of Advanced Manufacturing Technology (NIAMT), Ranchi for the year
2024-25 for information and necessary action.

2. A copy of Separate Audit Report is also being sent to the Secretary to the
Government of India, Ministry of Education, New Delhi for information and
necessary action.

3. The audited Annual Accounts, Audit Report should be duly considered and
adopted by the Governing Body (GOB) of the NIAMT, Ranchi in the Annual
General Meeting before these are laid in the House of Parliament.

4. A copy of (i) Resolution of Governing Body adopting the Audit Report with
audited Annual Accounts, (ii) Date of its presentation before the House of
Parliament and (iii) Annual Report of the Institute may be furnished to this office
in due course for our records and onward transmission to the Comptroller and
Auditor General of India, New Delhi.

5. The Hindi version of this SAR may be furnished to this office within one week.

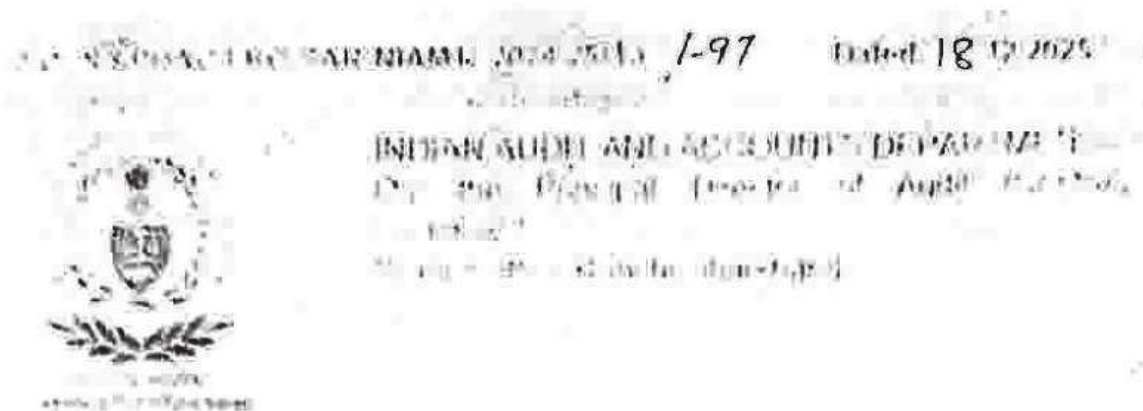
6. The receipt of this letter with enclosures may please be acknowledged.

Yours faithfully,

Encl: - As above.

[Signature]

Principal Director of Audit (Central), Lucknow



Sanjay Kumar
Principal Director

Sir,

The Annual Accounts of National Institute of Advanced Manufacturing Technology, Hatia, Ranchi for the year 2024-25 has been audited and the Audit Report there on has been issued vide letter No - 96 / Dated: 18.12.2025. During the course of audit certain deficiencies have been noticed which are of relatively minor nature and therefore not included in the Audit Report. These are being brought to your notice for corrective and remedial action.

Yours Sincerely,

Sanjay Kumar

Prof. Sukumar Mishra, Director
NIAMT, Hatia, Ranchi

**PROFORMA**

(Referred in Paragraph 4.11 of the Manual of Instructions of Audit of Autonomous Bodies Proforma on progress of audit to be sent to the Comptroller and Auditor General of India along with the Audited Accounts and Audit Report).

Sl. No	Name of Autonomous Body: National Institute of Advance Manufacturing Technology, Hatia, Ranchi	
1.	Date of submission of the Accounts to the Audit by the Autonomous Body	18.07.2025
2.	Where applicable, reason for referring the Accounts for revision indicating why the Accounts could not be certified with qualifications	N.A.
3.	Date of submission of revised Accounts to Audit where revision was considered essential	N.A.
4.	Dates on which Audit was taken up and completed.	21.07.2025 to 05.08.2025
5.	Date of issue of SAR to Autonomous Body for Replies/comments	08.09.2025
6.	Date of receipt of Replies/comments from Autonomous	27.09.2025
7.	Date of issue of SAR including Replies/comments of Autonomous Body along with an Aide-Memoires to CAG's office for approval.	09.10.2025
8.	A. Date of CAG's office letter communicating approved SAR B. Date of receipt of letter and approval at 8(A)	08.12.2025
9.	Date of issue of Final Audit Report to Government of India/State Government/CAG's office English Version: Hindi Version:	-
10.	Reason for delay, if any, at various stages.	-
11.	Date of presentation of previous Audit Report (2023-24) before Parliament/legislature	Lok Sabha- 04.04.2025 Rajya Sabha-02.04.2025

Dy. Director (C)



A.2 Fixed Asset (Schedule -4) - ₹70.10 Crore

ML1 As per the provisions of Accounting Standard (AS-16), issued by the Institute of Chartered Accountants of India (ICAI), borrowing costs that are directly attributable to the acquisition, construction, or production of a qualifying asset should be capitalized as part of the cost of that asset. Furthermore, such borrowing costs should be capitalized only up to the point when all activities necessary to prepare the asset for its intended use are substantially complete. Further, as per AS-16 issued by ICAI, such borrowing costs directly attributable to qualifying assets should be capitalized until the asset is ready for intended use.

During the financial audit of National Institute of Advanced Manufacturing Technology (NIAMT), Hatia, Ranchi, we observed that interest of ₹2.38 crores incurred on HEFA loans during FY 2020-21 to 2024-25, availed for construction of buildings at “NIAMT” campus, was not capitalized. The Institute is also in receipt of the above-mentioned interest amount from UGC for each of the financial years.

However out of the total amount of interest, the Institute failed to capitalize the interest to Schedule 4 as Fixed Assets. Hence, non-compliance of AS-16 to the tune of ₹ 1.56 crore, which resulted in understatement of Assets under Schedule-4(Plan) Fixed assets (CWIP & Building by similar amount; and corresponding understatement of Current Liability under Schedule 3A- Current liability- Other Current Liabilities -Other Funds -Special Funds payable/ unspent. (See in Annexure-A)

ML2 As per accepted accounting policy all the buildings should be capitalized as and when the buildings are physically complete and handed over to the Institute. As per the Handing over/ Taking over report furnished by M/s CPWD Ltd endorsed with Committee of the Institute (NIAMT), Hatia, it was revealed that the following civil work, “Extension of Kalpana Chawla Hostel (Girls Hostel)” had been physically completed and handed over to the Institute as on 20.08.2024. However, the above work amounting to ₹2.48 crore had not been capitalized during the year 2024-25 in the books of NIAMT, Hatia. This had resulted in an understatement of Fixed Assets by ₹2.43 crore (after accounting for depreciation for the year) and overstatement of Work in progress by the amount of ₹2.48 crore. The non capitalisation of asset also leads to understatement of depreciation to the



effect of 0.05 crore and Income Expenditure account-Schedule 4 (Depreciation) and overstatement of Corpus/Capital fund- Schedule 1.

A.3 Current Asset (Schedule-7) - ₹20.31 Crore

ML3 As per guidelines of financial statements for the Central Higher Educational Institutions Autonomous Bodies Accrued Interest on FDs are to be booked under Loans, Advances & Deposits (Schedule-08).

Scrutiny revealed that the Institute booked Accrued Interest on FDs during the year 2024-25 in Current Assets (Schedule-07) instead of Loans, Advances & Deposits (Schedule-08). This leads to the understatement of Schedule -8- Loans, Advances & Deposits by ₹ 0.09 Crores and overstatement of Current Assets by the same amount.

B.2 Administrative and General Expenses (Schedule- 17)- ₹ 4.35 Crore

ML4 Scrutiny of Annual Accounts of NIAMT, Hatia, Ranchi of F.Y 2024-25 revealed that an amount of ₹ 1.16 crores was paid to the Security expenses in the nature of Infrastructure expenses. As per the format of financial statements for Central Higher Educational Institutions such expenditure was to be shown in the Infrastructure Expenses under the Schedule-17 "Infrastructure Expenses" but the same had been wrongly shown under the head "Other Expenses" under the same Schedule.

Dy. Director (Central)



Opinion of the Comptroller & Auditor General of India on the Accounts of National Institute of Advanced Manufacturing Technology, Hatia, Ranchi for the year ended 31 March 2025

Opinion

We have audited the financial statements of National Institute of Advanced Manufacturing Technology (NIAMT), Hatia, Ranchi which comprise the statement of financial position as at 31 March 2025 and the Income & Expenditure Account/Receipts & Payment Account for the year then ended, and notes to the financial statements, including a summary of significant accounting policies under Section 20(1) of the Comptroller & Auditor General's (Duties, Powers & Conditions of Service) Act, 1971 read with Section-23 of the Indian Institute of Technology Act 1961 and Section 20 (i to ii) of Memorandum of Association of National Institute of Advanced Manufacturing Technology Society.

This 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, disclosure norms, etc. Audit observations on financial transactions regarding compliance with the Law, Rules and Regulations (Propriety & Regularity) and efficiency cum performance aspects, etc., if any, are reported through inspection reports/ CAG's audit reports separately.

In our opinion, the accompanying financial statements of NIAMT, Hatia Ranchi, read together with the accounting policies and Notes thereon and other matters mentioned in the Draft Separate Audit Report, which follows, **give a true and fair view** of the financial position of the autonomous body as at March 31, 2025, and its financial performance and its cash flows for the year then ended in accordance with uniform format of accounts prescribed by Ministry of Education for Higher Educational Institutions.

Basis for Opinion

:

We conducted our audit in accordance with CAG's auditing



regulations standards manuals guidelines/guidance-notes/orders/circulars etc. Our responsibilities are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are independent of the autonomous body in accordance with ethical requirements that are relevant to our audit of the financial statements, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Responsibilities of Management for the financial statements

The Management of the NIAMT, Italia, Ranchi, is responsible for the preparation and fair presentation of the financial statements in accordance with uniform format of accounts prescribed by Ministry of Education for Higher Educational Institutions, and for internal control as management determines it necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion in accordance with CAG's auditing regulations /standards/ manuals guidelines/ guidance-notes/ orders/ circulars etc.

For and on behalf of the CAG of India

Place: Ranchi

Date: 18.12.2025

Principal Director of Audit (Central) Lucknow



Separate Audit Report on the Accounts of National Institute of Advanced Manufacturing Technology (NIAMT), Hatia, Ranchi

A. Balance Sheet

A.1 Corpus Fund – 164.15 crore

A.1.1 As per Utilisation Certificate the Institute has total fund of Rs.88.19 crore (including previous year unspent balance). The Institute Utilised Rs. 64.14 crore (including CWIP of Rs.19.94 crore) and has a utilised grant Rs. 24.05 crore (21.71 crore Capital) + Rs. 2.34 crore (Salary) as on 31.3.2025. However, Institute has shown an amount of Rs.3.32 crore under Current Liabilities and balance Rs.20.73 crore has been treated as utilised and accounted under Corpus Fund. This has resulted in overstatement of Corpus Fund by Rs. 20.73 core and understatement of Current Liabilities to the same extent.

A.2 Loans and Advances-Schedule 8-₹26.78 crores

A.2.1 The Institute had made an advance of ₹3.39.crore to M/s National Informatic Centre (NIC) and posted it in Schedule-8-II(b)- Loans, Advances & Deposits. After scrutiny of the ledger and other relevant records, we noticed that the Institute had paid an advance of ₹ 3.39 crores - to NIC between March 2018 and October 2023 for establishing a Local Area Network (LAN) which was completed and installed in October 2018. However, the Institute is still showing this as advance instead of showing it in fixed assets. This led to an overstatement of Loans and Advances and understatement of fixed assets by ₹ 3.39 crore and a consequential understatement of depreciation. The effect of depreciation has not been calculated as date of handing over has not been communicated.

B. Income and Expenditure Account

B.1 Staff Payments and Benefits-Schedule 15- ₹37.50 crores

B.1.1 As per guidelines of financial statements for the Central Higher Educational Institutions Autonomous Bodies Repair & Manpower supply are to be booked under Administrative & General Expenses (Schedule-17). Scrutiny revealed that the Institute booked Manpower supply during the year 2024-25 in Staff Payment & Benefits (Schedule-15) instead of Administrative & General Expenses (Schedule-17). This leads to the understatement of Administrative & General Expenses by ₹3.71 crore (₹1.64 crores + ₹2.07 crores) and overstatement of Staff Payment & Benefits by the same amount.



B.1.2 As per guidelines of financial statements for the Central Higher Educational Institutions Autonomous Bodies Cleaning Material & Services are to be booked under Repairs & Maintenance (Schedule-19). Scrutiny revealed that the Institute booked Cleaning Services and Cleaning Materials during the year 2024-25 in Staff Payment & Benefits (Schedule-15) and Administrative and General Expenses (Schedule-17)) instead of Cleaning Material & Services (Schedule-19). This leads to understatement of Cleaning Material & Services by ₹ 1.24 crores (₹1.17 crores+ ₹0.07 crores) and overstatement of Staff Payment & Benefits by ₹ 1.17 crores & Overstatement of Administrative and General expenses by ₹0.07 crores.

C. General

C.1 During the course of audit of accounts of National Institute of Advanced Manufacturing Technology (NIAMT) Hatia, Ranchi for the year 2024-25, it was noticed that in Schedule 8 (3) Loans, Advances & Deposits – Advances & other amounts recoverable, an amount of Rs 50 lakh was given as advance for NIIF Golden Jubilee Celebration in year 2016 and Rs 41.80 lakh was given as advance to JIINKS in years 2015-16 to 2019-20. Audit observed that an amount of Rs 20.10 lakh and Rs 16.00 lakh is still pending for adjustment/recovery against NIIFT Golden Jubilee Celebration and Advance to JIINKS and have been reflected as liability for a long period. The same needs to be adjusted.

C.2 As per the uniform format for Central Higher Educational Institutions, provision for liability towards gratuity payable on death/retirement of employees, leave encashment and pension need to be accounted for on an actuarial basis, and provided up to the year-end. Actuarial valuation as of 31st March is to be conducted every year.

On scrutiny of the Annual Accounts of the National Institute of Advanced Manufacturing Technology (NIAMT), Hatia, Ranchi for the Year 2024-25 Schedule-15- Staff Payment & Benefits (Establishment Expenses), it was noticed that the Institute had made provision for pension, Gratuity and Leave Encashment on a cash basis instead of actuarial valuation which is in contravention of AS-15 and Uniform Format of Accounts. The comment was also raised in previous year SAR, however, same remains un-complied.



C.3 An amount of ₹5.14 lakh had been accounted under Sundry Debtors (Schedule-7-Current Assets) for the period 2024-25. These debts were in shape of advances given to officials of the Institute and various outside entities as well and had been outstanding since 2010-11 onwards. Officials whose names appeared in the annexure are now retired and not in service. As such there are absolutely no chances to adjust the advance against these officials. This needs to be reviewed by the Institute and steps be taken to write off the unrecoverable/un-adjustable advances and to adjust the advances given to outside entities. This issue was raised in last two-year audit also, but the Institute has not taken any corrective measures till date.

C.4 During the audit of NIAMT Ranchi, it was noticed that the Institute had booked one bank account in the Schedule 8 (3) - Head – Advances and other amounts recoverable i.e. SBI Online a/c no **36228721268** (Old) having a balance of ₹ **13.10 lakh** and advances had been made from it. Further, an advance to NIFFT Student's Gymkhana ₹ **2.60 Lakh** from Canara Bank a/c no **2730101006939** had been made. Hence, the total ₹ 15.70 lakh had been lying outstanding for period more than two year. This issue was raised earlier in the Separate audit Reports and no adjustments has been done till date.

D. Management Letter

Deficiencies which have not been included in this Draft Separate Audit Report have been brought to the notice of the Management through a Management Letter issued separately for remedial/corrective action.

E. Assessment of Internal Controls

(i) Adequacy of Internal Control System:

During the course of audit of NIAMT, Hatia, Ranchi, we noticed that The Internal Control System reflects following deficiencies.

- a) The Institute's debts is pending since 2010-11.
- b) Huge advance for establishment of Campus Wide Networking has remained unadjusted till date.
- c) Advance is unadjusted even after submission of final bill.

(ii) Adequacy of Internal Audit System:

During the course of audit, we noticed the following:

The internal audit reflected deficiencies in the following areas:



- a. No Internal Audit (IA) section in the Institute.
- b. Internal audit was conducted by CA Office.
- c. Only Annual Account was verified by Internal Audit. No Audit Report was submitted to the management.
- d. Acts as pre-audit as it is confined to pre check of purchase files, work files, pay fixation, terminal benefits and other bills.
- e. Absence of Internal Audit Manual in the Institute. The Institute follows GFR-2017, Ministry of Education guidelines and other rules and regulations of the Institute and GOI.

(iii) System of Physical verification of fixed assets:

Physical verification of Fixed Assets has been physically done by the Institute during the year.

(iv) System of Physical verification of inventory:

Physical verification of consumable and non-consumable item has not been physically verified by the Institute (department wise) during the year.

(v) Regularity in payment of statutory dues:

No issue on irregularity on payment was noticed during audit.

(vi) Other matters relating to functioning of the entity:

Nil

F. Grants in aid

As per revised data provided by NIAMT, Hatia, Ranchi. The National Institute of Advanced Manufacturing Technology (NIAMT), Hatia, Ranchi Grants-in-Aid of ₹ 64.30 crore (Capital ₹ 21.75 crore + Revenue General ₹ 17.00 crore and Revenue Salary ₹25.55 crore) were received from the Government of India during the year 2024-25. The interest earned on Govt. Grant was ₹0.27 crore (Capital ₹ 0.13 crore + Revenue General ₹ 0.06 crore and Revenue Salary ₹0.08 crore). The unspent balance of the previous year was ₹ 23.62 crore (Capital ₹ 22.30 crore + Revenue General ₹ 0.06 crore and Revenue Salary ₹1.26 crore). Thus, the fund available with the Institute was ₹88.19 crore (Capital 44.18 crore + Revenue General ₹ 17.12 crore and Revenue Salary ₹26.89 crore). Out of which the Institute utilized a sum of ₹ 66.26 crore [{Capital 22.34 crore + Revenue General ₹



(for the year 2023-24 collected) in Bharat Kose ₹0.25 crore (Capital ₹0.13 crore + Revenue General ₹0.06 crore and Revenue Salary ₹0.06 crore). Thus, leaving a balance of ₹24.04 crore (Capital ₹21.71 crore and Revenue General ₹Nil and Revenue Salary ₹2.33 crore) as unutilized balance as on 31.03.2025. The excess expenditure on Revenue General (₹2.11 crore) is met through Internal Resources.

Principal Director of Audit (Lucknow)

