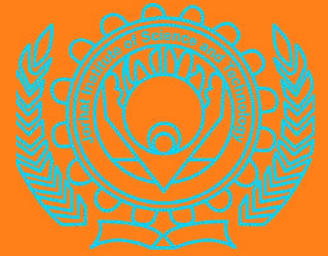




YAANTRIX



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VISION

"To produce industry ready engineers and researchers with excellent theoretical and practical knowledge by providing quality education to the under privileged sections of the society of the state and nation."

MISSION

- To develop a state-of-the-art computational and experimental facilities for teaching, research and consultancy services for industries and society.
- To produce high quality undergraduates in mechanical engineering through good academic support qualities.
- To provide an environment conducive to innovation a relativity, group work and entrepreneurial leadership by imparting training and coaching programmes in relevant skill development courses.
- To develop and serve practicing engineers, industry, government, educational and technical societies through consultancy work by providing professional expertise.
- To develop a system for effective interactions among industries, academia, alumni and other stake holders.
- To cultivate a friendly, supportive and competitive academic environment to extract the best contributions from students, faculty and staff members.



ABOUT THE DEPARTMENT

The Department of Mechanical Engineering was introduced in the year 2016 with an initial intake capacity of 60 students. Currently, the department has a strength of eight Assistant Professors, one workshop superintendent, one laboratory supervisor, and four laboratories and workshop staff to assist and support 240+ B.E. undergraduate students. The department is continuously and gradually strengthening its infrastructures including laboratories, workshops, and other facilities. The department comprises about nine laboratories and one workshop equipped with sophisticated instruments. The department is continuously striving to achieve excellence in education, academic and industry-oriented research as well as consultancy services to society. We are hopeful that, our students will be able to serve the various needs of society by blending intellectual and practical experiences gained from the institute. Academic coursework and projects are designed to endow students with the ability to apply their knowledge effectively for solving multidisciplinary problems.



MESSAGE FROM HOD



“I am happy to inform that Department of Mechanical Engineering, JIST is publishing its seventh issue of the Departmental Newsletter (Yaantrix).

The newsletter is a reflection of the cumulative effort of faculties, students, alumnus, and other stakeholders in portraying and bringing out the ethos of the Department. It is really a pride for all of us and I on behalf of this platform request the entire Mechanical Engineering community to come forward and be associated with us. I cordially appreciate the combined effort of the Editorial Team as a whole in bringing out this issue for our esteemed readers.”



DEPARTMENTAL ACTIVITIES

- CIE-II for 4th, 6th and 8th semester was conducted on 2th, 3th and 4th May, 2023.
- Volume 2, Second Edition of Newsletter entitled “Yaantrix” of Mechanical Engineering Department, Jorhat Institute of Science and Technology was published in 1st week of May, 2023.
- CIE-III for 4th, 6th and 8th semester was conducted in 25th, 26th and 27th May, 2023
- Grand Viva Voce II of 8th Semester was conducted on 1st June, 2023.
- Departmental Farewell of 8th semester students was conducted on 2nd June, 2023
- A departmental meeting was held on 17th June, 2023 to discuss and decide the steps to define the mission and vision of the Mechanical Engineering Department
- 2nd semester Workshop and Engineering Mechanics Lab exams were conducted from 14th to 17th June, 2023.
- 4th semester Fluid Mechanics-I and Mechanics of Materials Lab exams were conducted on 15th and 16th June, 2023.
- 6th semester Fluid Mechanics-II, Heat Transfer-II, and MMI Lab exams were conducted from 26th to 30th June, 2023.
- Dr. Deva Kanta Rabha, Associate Professor of Jorhat Engineering College, Jorhat, and Dhanjit Das, Scientist, NEIST, Jorhat were invited as External Examiners for the presentation seminar of the Final Year Project on 28th

June 2023.

FACULTY ACTIVITIES

- Nayanjyoti Talukdar has completed one week Faculty Development Programme on "Soft Skills Development" from 12th to 16th June, 2023 organised by NITTTR, Kolkata.
- Nayanjyoti Talukdar has completed five days Faculty Development Programme on "Application of Applied Mathematics in Engineering Field" organized by Vellore Institute of Technology, Chennai from 24th to 26th May, 2023.
- Nayanjyoti Talukdar was appointed as Assistant Officer in Charge for conducting B.Tech 8th Semester End Term Examination 2023.
- Nayanjyoti Talukdar was appointed as the external examiner for the 4th and 6th semester B. Tech Lab exam (Fluid Mechanics-II, Heat Transfer-II Lab respectively) held in June, 2023 in the Department of Mechanical Engineering.
- Nayanjyoti Talukdar, Co-ordinator of Start-Up, IIC-JIST in collaboration with CSIR-NEIST, Jorhat conducted a workshop on prototype, Product Design, and Development in collaboration with CSIR, NEIST, Jorhat
- Dr. Borad M. Barkachary has undergone 12 weeks NPTEL Certification courses (Swayam) and NPTEL-AICTE Faculty Development Programs on "NBA Accreditation and Teaching and Learning in Engineering (NATE)" offered by NPTEL from 23rd January to 14th April, 2023.
- Dr. Borad M Barkachary was appointed as the external examiner for the 2nd and 6th semester B. Tech Lab exam (Engineering Mechanics Lab, Workshop Lab, and MMI Lab) held in June, 2023 in the Department of Mechanical Engineering.
- Dr. Mridul Deka has completed a one-week Faculty Development Programme on "Soft Skills Development" from 12th to 16th June, 2023 organised by NITTTR, Kolkata.
- Dr. Mridul Deka has completed five days Faculty Development Programme on "Application of Applied Mathematics in Engineering Field" organized by Vellore Institute of Technology, Chennai from 20th to 24th May 2023

FACULTY ACTIVITIES

- Dr. Mridul Deka has completed three days Faculty Development Programme on “Exploring the Impact of Emerging Technologies in Future Network and Systems” organized by Vellore Institute of Technology, Chennai from 24th to 26th May, 2023.
- Dr. Mridul Deka has completed three days Faculty Development Programme on “Deep Learning and Artificial Intelligence based Digital Image Processing” organized by Vellore Institute of Technology, Chennai from 24th to 26th April, 2023.
- Dr. Mridul Deka has completed five days Faculty Development Programme on “Multi-Attribute Fuzzy Time Series Based on Adaptive Expectation” organized by Vellore Institute of Technology, Chennai from 11th to 15th June, 2023.
- Dr. Mridul Deka has completed five days Faculty Development Programme on “Exploring the Scope of Engineering Mathematics in Control System and Signal Processing” organized by Vellore Institute of Technology, Chennai 12th to 16th June, 2023.
- Dr. Mridul Deka was appointed as the external examiner for the 4th and 6th semester B. Tech Lab exam (Mechanics of Materials, Heat Transfer-II Lab) held in June, 2023 in the Department of Mechanical Engineering.
- Paper entitled “A study on Bio-Medical Waste Segregation and Disposal” presented by Achintya Shyam Gohain, Himangshu Phukan, Mrinal Patra, and Nipal Kumar Deka of 8th semester in International Conference on Recent Trends and Research in Engineering and science organised by V.B. College of Engineering Malkapur, held in 27th May, 2023 and the paper published in “International Journal of Interdisciplinary Journal of Innovation Research and Development” in Volume 8, special issue, 2023 guided by Menonjyoti Kalita.

FACULTY ACTIVITIES

- Paper entitled “Waste Management of Plastics using Waste Clothes and Converting it into Insulation Panel” presented by Himadri Gogoi, Rajashree Saikia, Parikhit Dulakashoria, and Dorpandee Saikia of 8th semester in International Conference on Recent Trends and Research in Engineering and Science organized by V.B. College of engineering Malkapur, held in 27th May,2023 and the paper published in “International Journal of Interdisciplinary Journal of Innovation Research and Development” in Volume 8, special issue, 2023 guided by Menonjyoti Kalita
- Paper entitled “Study of Electronic Waste Management across the State of Assam ” presented by Makhan Das, Kishor Kumar Biswas, Shrutismita Shivam, and Shasanka Jyoti Dutta of 8th semester in International Conference on Recent Trends and Research in Engineering and Science organized by V.B. College of Engineering Malkapur, held in 27th May 2023 and the paper published in “International Journal of Interdisciplinary Journal of Innovation Research and Development” in Volume 8, special issue, 2023 guided by Menonjyoti Kalita.
- Menonjyoti Kalita was appointed as the external examiner for the 2nd semester B. Tech Lab exam (Engineering Mechanics Lab) held in June 2023 in the Department of Mechanical Engineering



STUDENT ACTIVITIES

- Ujjal Kumar Sinha student of 8th semester has qualified Management Aptitude Test [MAT]
- Biki Baruah student of 8th semester has qualified GATE (XE)-2023.
- Achintya Shyam Gohain, Himangshu Phukan, Mrinal Patra, and Nipal Kumar Deka of 8th semester presented a paper entitled “A Study on Bio-Medical Waste Segregation and Disposal” in International Conference on Recent Trends and Research in Engineering and science organized by V.B. College of Engineering Malkapur, held in 27th May 2023 and the paper published in “International Journal of Interdisciplinary Journal of Innovation Research and Development” in Volume 8, special issue, 2023
- Himadri Gogoi, Rajashree Saikia, Parikhit Dulakashoria, and Dorpandee Saikia of 8th semester presented a paper entitled “Waste Management of Plastics using Waste Clothes and Converting it into Insulation Panel” at the International Conference on Recent Trends and Research in engineering and science organized by V.B. College of Engineering Malkapur, held in 27th May 2023 and the paper published in “International Journal of Interdisciplinary Journal of Innovation Research and Development” in Volume 8, special issue, 2023



STUDENT ACTIVITIES

- **Makhan Das, Kishor Kumar Biswas, Shrutismita Shivam, and Shasanka Jyoti Dutta of 8th semester presented a paper entitled “Study of Electronic Waste Management across the State of Assam ” at International Conference on Recent Trends and Research in Engineering and Science organized by V.B. College of Engineering Malkapur, held in 27th May 2023 and the paper published in “International Journal of Interdisciplinary Journal of Innovation Research and Development” in Volume 8, special issue, 2023**
- **Gaurav Chakraborty of 8th semester published a research paper on 'A Study on Hybrid Renewable Energy System for Electrification in a Remote Area of Bogamati, Assam' published in Research Inveny: International Journal of Engineering and Science.**
- **Abhishek Paul student of 6th semester has completed a certificate course in “Quantum Computing using Indigenous Quantum Simulator QSim”- IIT Roorkee & CDAC-Hyderabad**



ALUMNI ACTIVITIES

- Debasis Das (Batch 2016-2020) has been selected as Project Associate under CSIR(Neist), Jorhat
- Kausturi Dey (Batch 2016-2020) has been selected as Probationary Office at Punjab National Bank.
- Sainshring Dao Naiding (Batch 2016-2020) has been selected in Dalmia Bharat NorthEast and has also cleared Assam Direct Recruitment Exam (ADRE), 2022
- Manash Jyoti Deka (Batch 2016-2020) has cleared GATE 2023.
- Asraful Kamal (Batch 2016-2020) has cleared Assam Direct Recruitment Exam (ADRE), 2022, and placed in the Office Of The Deputy Commissioner, General Administration Department
- Rohan Das (Batch 2017-2021) has qualified APSC Prelims 2023 and appeared in APSC Mains 2023.
- Md Khairuzzaman Choudhury (Batch 2017-2021) has been promoted to Head of Services from Managing Assistant Position at HC One.
- Niharjyoti Chetia (Batch 2017-2021) has been selected in PSU Oil India Limited



ALUMNI ACTIVITIES

- Dipankar Baruah (Batch 2017-2021) has been selected in Parksons Packaging Ltd.
- Pritam Borbora (Batch 2017-2021) has been placed in CKinetics.
- Shekhar Sharma (Batch 2017-2021) has been placed in Jindal stainless limited company as a PGET.
- Amlan Jyoti Hazarika (Batch 2018-2022) has cleared GATE 2023 and placed in Oilmax Energy Pvt. Limited.
- Kritisha Baruah (Batch 2018-2022) has cleared GATE 2023 and placed in Oilmax Energy Pvt. Limited.
- Irina Goyari (Batch 2018-2022) has cleared GATE 2023 and placed in Oilmax Energy Pvt. Limited.
- Sanjay Talukdar (Batch 2018-2022) has cleared GATE 2023 and has been admitted to IIT, Mandi for M.Tech.
- Hirok Jyoti Dutta (Batch 2018-2022) cleared Agriculture Engineering conducted by Assam Agriculture University
- Jahidur Rahman (Batch 2018-2022) has been placed in Gautam Solar Private Limited.



PHOTO GALLERY



PHOTO GALLERY



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