

BIT MESRA

MECHANICAL ENGINEERING BULLETIN

YEAR
2024



SP24 EDITION
MECHANICAL
ENGINEERING
BIT MESRA, RANCHI





NEWSLETTER

PREFACE

Greetings to esteemed Colleagues, Students, Alumni, Friends and Well-wishers,

It is with great pleasure and enthusiasm that we put forward the inaugural volume of the Newsletter from the Department of Mechanical Engineering, BIT Mesra. This publication marks the start of a new era in our department's journey, as we endeavour to foster communication, collaboration, and community among our diverse cohort of scholars, researchers, students and alumni.

The creation of this newsletter was the brainchild of our honourable Vice Chancellor Sir, Prof. Indranil Manna, a profound academician and researcher of global repute. He projected the newsletter as a medium to put forward the achievements, share the insights, and highlight the endeavours that define our department's academic landscape. In these pages, you will find a wealth of information ranging from research highlights and faculty spotlights to student achievements and upcoming events.

Our department is a vibrant tapestry woven from the threads of interdisciplinary collaboration, intellectual curiosity, and academic excellence. This newsletter serves as a window into the dynamic and ever-evolving ecosystem that characterizes our department, providing a platform for dialogue, exchange, and engagement.

As we embark on this journey of communication and connection, we extend our heartfelt gratitude to all those who have contributed their time, energy, and expertise to make this newsletter a reality. It is through your dedication and commitment that we are able to showcase the myriad talents and accomplishments that distinguish our department from others.

We invite you to immerse yourself in the stories, insights, and experiences shared within these pages, and to join us in celebrating the vibrant intellectual community that is the hallmark of our department. Together, let us continue to inspire, innovate, and impact the world around us.

Thank you for your support, and we look forward to embarking on this exciting journey together for years to come.

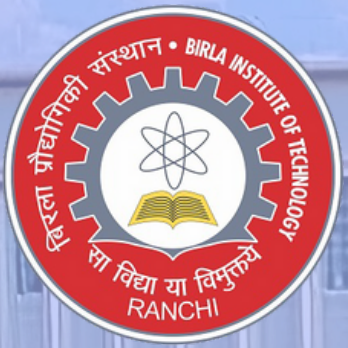
Warm regards,

Editorial Board

e-Newsletter

Department of Mechanical Engineering

Birla Institute of Technology Mesra



NEWSLETTER

MESSAGE FROM HEAD OF DEPARTMENT

As we stride into another semester filled with opportunities and challenges, I wanted to take a moment to reflect on our Spring 2024 semester's collective journey and express my gratitude towards one and all for support and cooperation rendered and unwavering dedication and commitment shown towards excellence.

In the face of shifting education policies and evolving paradigms, our department has consistently demonstrated resilience and adaptability. The innovative spirit and tireless efforts of Prof. Indranil Manna, Vice Chancellor and his team have not only propelled our department forward but have also fostered a culture of collaboration and growth.

Together, we have achieved remarkable milestones and overcome significant hurdles. Whether it be groundbreaking research, transformative projects, or impactful outreach initiatives, everybody's contributions have been nothing short of exemplary.

As we continue to navigate the ever-changing dynamics of our field, let us remain steadfast in our pursuit of knowledge and advancement. Let us embrace challenges as opportunities for growth and continue to push the boundaries of what is possible.

I am immensely proud to lead such a talented and dedicated team, and I am confident that together, we will continue to achieve great things.

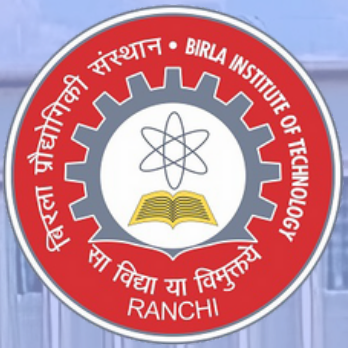
Thank you for your continued hard work and dedication.

Warm regards,

Dr. Apurba Kumar Roy

Head of the Department

Department of Mechanical Engineering



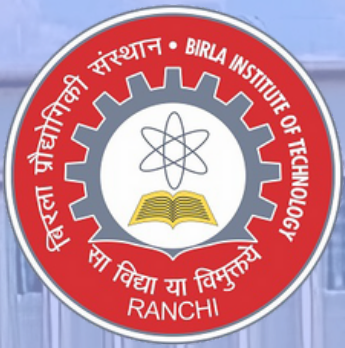
NEWSLETTER

MESSAGE FROM FACULTY MEMBERS

I am Sushanta and it's been one year of my attachment with this Department as I joined this Institute in March 2023. It has been an intriguing experience, which has just begun, as the youngest Faculty member of the oldest Department of BIT Mesra! It gives me immense pride to be working with such accomplished individuals in the field of Mechanical Engineering as my colleagues. Being a large Department with 25 Faculty members, over 1000 students being instructed every semester, an elaborate arrangement of laboratories with top-end equipments being handled on a daily basis; the most relevant characteristic or quality required in successfully discharging day-to-day responsibilities that I have observed among my fellow colleagues and have imbibed it myself is team-work. Be it hustling around the whole day preparing documents for NBA visits, or working late nights to pull over a Departmental Annual Conference, helping each other's students with their dissertation work, and sharing course load and checking answer scripts of common courses, we have been into it, all together. I shall forever cherish the support I have received from my seniors here at the Department whenever I have had doubts and queries in my work and most worthy of noting, the whole-hearted applause and commendations they have showered me with for all my little achievements over the time. Banking on this encouragement and motivation, I can claim that I have become an integral part of the brethren and look forward to engaging myself in continuing the journey of the Department and the Institute with all my heart and mind.

Dr. Sushanta Ghuku

Assistant Professor
Department of Mechanical Engineering
Birla Institute of Technology Mesra



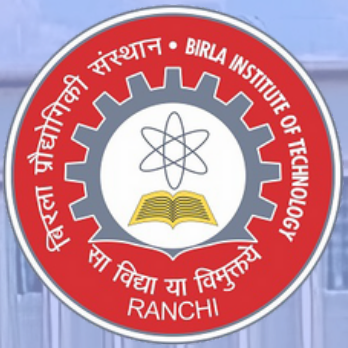
NEWSLETTER

MESSAGE FROM ALUMNI

As an alumnus of BIT Mesra, reflecting on my journey evokes a sense of gratitude and nostalgia. The bond forged with teachers stands out as a cornerstone of my experience. Their guidance went beyond academics; they nurtured holistic growth. Whether it was clarifying doubts in lectures or engaging in insightful discussions outside the classroom, their mentorship was invaluable. Their passion for their subjects ignited curiosity within us, fostering a love for learning that extends far beyond graduation. Through their encouragement, I dared to explore new avenues, overcome challenges, and evolve as a professional. Even beyond my time at BIT, their wisdom continues to inspire and guide me. I'm forever indebted to the faculty for sculpting not just my intellect, but my character and aspirations as well. They remain the pillars upon which my success stands.

Ayush kumar

Mech 2K-19.



NEWSLETTER

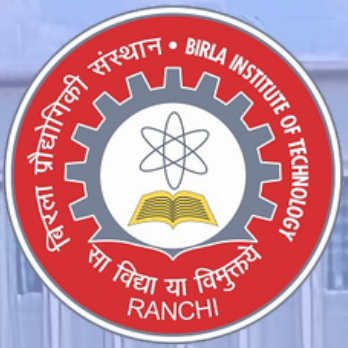
MESSAGE FROM CURRENT STUDENT

As a second-year student at BIT Mesra's Mechanical Engineering department, I can attest to the outstanding environment it offers. The department fosters a culture of collaboration and growth, where teachers are not just instructors but mentors, always ready to lend a helping hand. The supportive faculty members go above and beyond to ensure students grasp concepts thoroughly, encouraging active participation and inquiry. Moreover, the well-furnished laboratories provide us with the necessary tools and resources to explore theoretical concepts hands-on, enhancing our understanding and practical skills. The blend of theoretical knowledge and practical application in these labs enriches our learning experience significantly. Overall, the department's commitment to excellence, coupled with its conducive learning environment and dedicated faculty, makes it an ideal place for aspiring mechanical engineers like myself to thrive and realize our potential.

AYUSH RANJAN

BTECH/10465/22

student

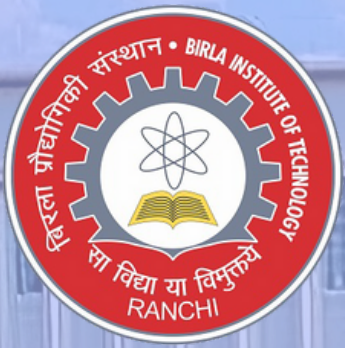


NEWSLETTER

ABOUT THE DEPARTMENT

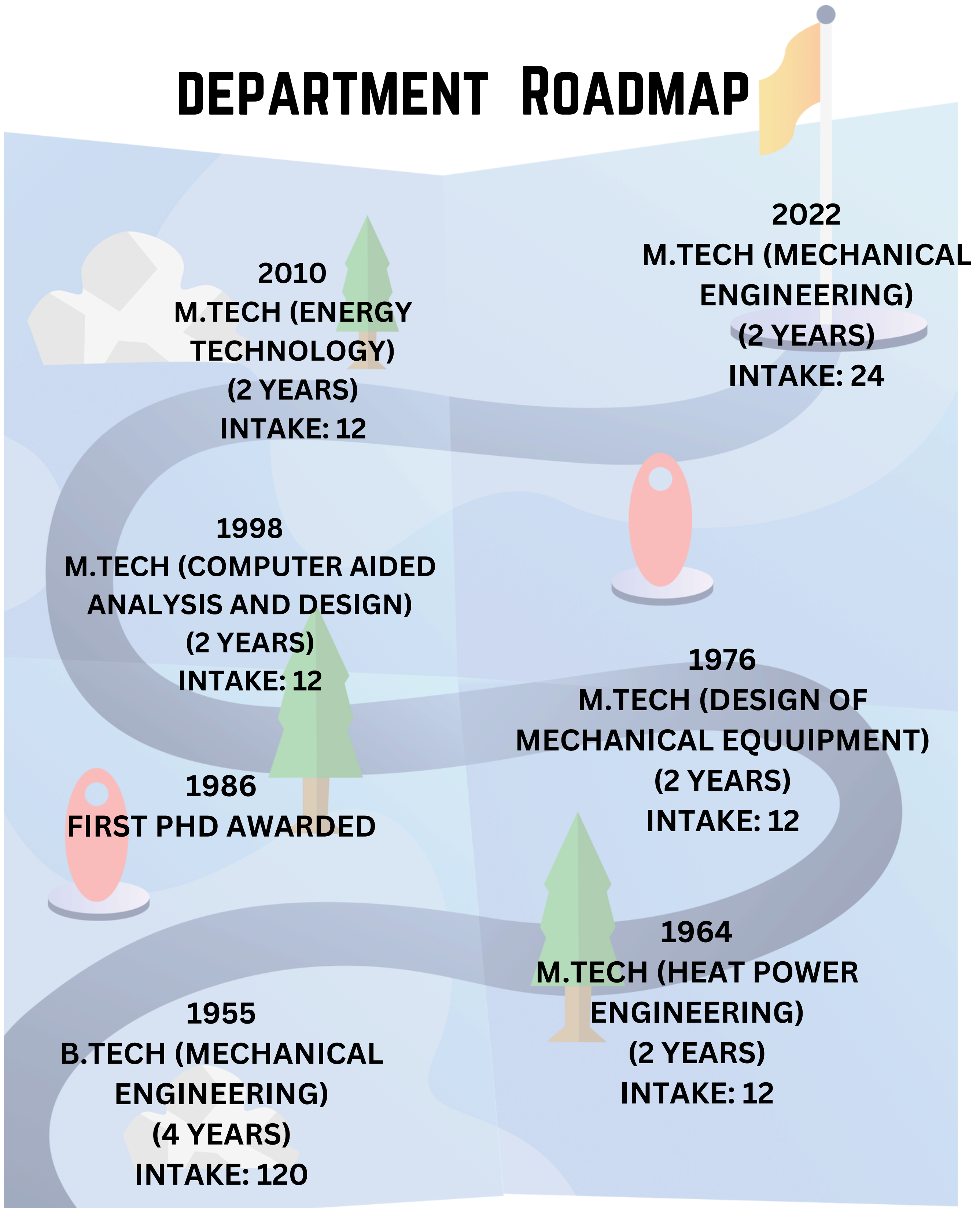
Since its inception in 1955, the Department of Mechanical Engineering has a wide reputation for the quality of teaching and research it offers. It has been awarded top grades for both teaching and research activities from independent and government bodies. The excellent laboratory facilities, modern computer clusters, systematically designed curriculum, and dedicated faculty members make this Department a dynamic place to study.

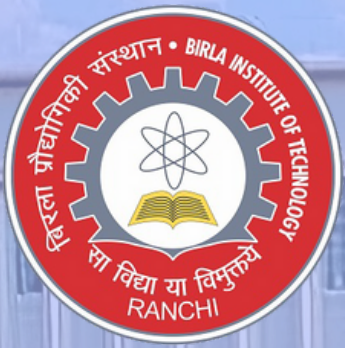
Mechanical Engineering Graduates from BIT Mesra are sought after by many prestigious companies. There is also an excellent careers center on campus, which helps the students to get entry into multinational companies.



NEWSLETTER

DEPARTMENT ROADMAP





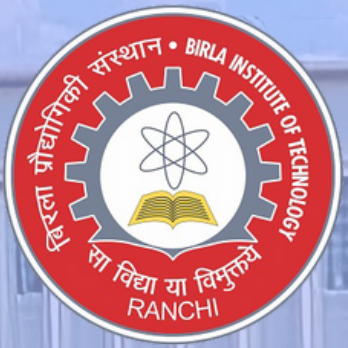
NEWSLETTER

VISION OF THE DEPARTMENT

The Mechanical Engineering Department of Birla Institute of Technology, Mesra, Ranchi strives to be globally recognized for quality engineering education and research leading to well qualified engineers, academicians and researchers who are innovative, entrepreneurial and successful in achieving excellence in their field of study.

MISSION OF THE DEPARTMENT

- To impart quality education to the students and enhancing their knowledge and skills to be globally competitive Mechanical Engineers.
- To maintain state of the art research facilities to provide its students and faculty to create, interpret, apply and disseminate knowledge with an understanding of the limitations.
- To develop linkages and interaction with industry, R & D organizations and educational institution for excellence in consultancy practices, research and teaching.
- To provide conducive environment for learning, creativity and problem solving skill.

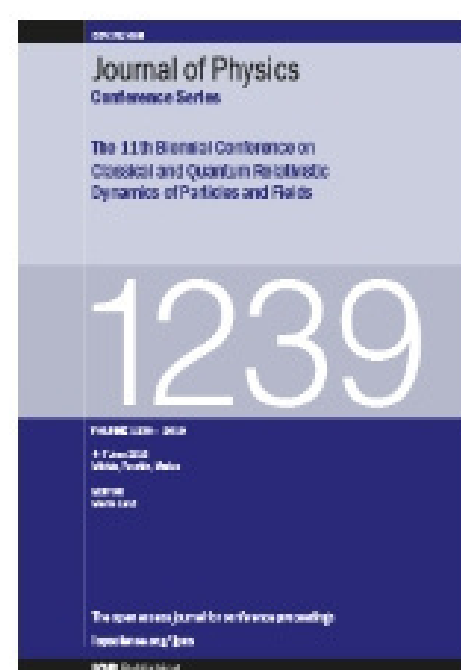
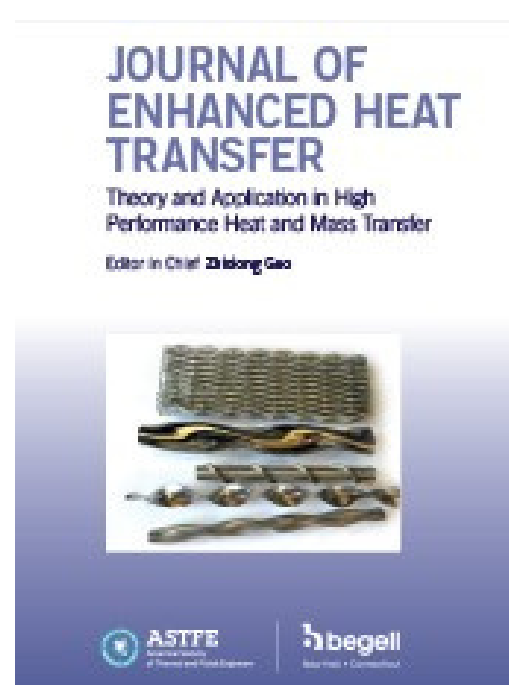


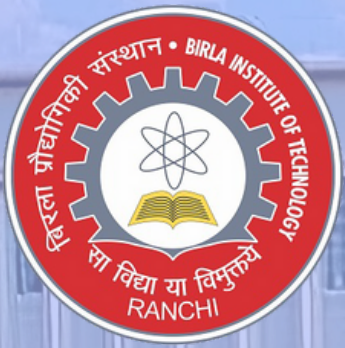
NEWSLETTER

2nd INTERNATIONAL CONFERENCE ON THERMO FLUIDS AND SYSTEM DESIGN

The Department of Mechanical Engineering at Birla Institute of Technology Mesra, in the waterfall city of Ranchi, India organized a two-day International Conference on Thermo-Fluids and System Design (ICTFSD) 2024 from 04-05 April 2024, supported by the Science & Engineering Research Board (SERB), Govt. of India. The conference was multidisciplinary in the broad areas of Mechanical Engineering that served as a platform to exchange innovative ideas, and experiences among the participants from around the globe. The eminent experts from the top universities delivered (keynote) lectures covering the broader scope that were beneficial for the participants from academics, industry (including R&D), and scientists from various organizations. ICTFSD 2024 covered a broad spectrum related to fluid flow, heat transfer, energy engineering, materials engineering, mechanical design, and process optimization in science and engineering.

Selected papers from the conference were published in reputed international journals and proceedings.

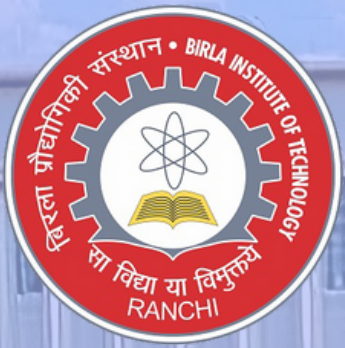




NEWSLETTER

2nd INTERNATIONAL CONFERENCE ON THERMO FLUIDS AND SYSTEM DESIGN





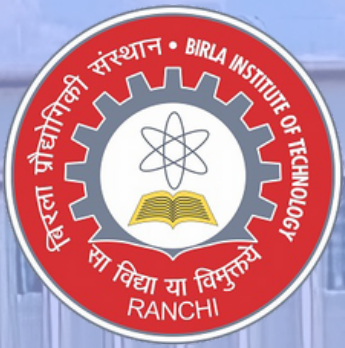
NEWSLETTER

ACHIEVEMENTS BY THE FACULTY OF THE DEPARTMENT BOOKS

1. Advances in Industrial Engineering in the Industry 4.0 Era by-K. Kumar
Publisher-CRC Press (A Taylor & Francis Company), USA
2. Robotics by-Chikesh Ranjan & Kaushik Kumar Publisher-S. Chand and
Company Limited, New Delhi, INDIA

JOURNAL

1. The impact of operating temperatures on the fluctuating flow fluid and processing vortex core in cyclone separator using large eddy simulations Dr. Lakhbir Singh Brar, Dr. Faisal Rahmani. Journal Name: Physics of Fluids. Volume, No, Page: 36, 33335. DOI: <https://doi.org/10.1063/5.0195382>
2. Deformation of thin Mooney-Rivlin elastic sheet due to electrostatic interaction with a rigid curved domain implied to biosystems P. Mahata, P. Kumar, A. Shrivastava, Faisal Rahmani, L. Vennamneni. Journal Name: Journal of Brazilian Society of Mechanical Sciences and Engineering. Volume, No, Page: 46, 207. DOI: <http://doi.org/10.1007/s40430-024-04782-5>
3. Numerical study of the effect of moderator depletion on thermal behaviour of fully voided 220MWe IPH WR channel during LOCA Roopuraj Swain, Aman Singh, Tanmay Gocher, Faisal Rahmani, Anil C. Mahata, Mukesh Sharma. Journal Name: Nuclear Engineering and Design. Volume, No, Page: 419, 112970. DOI: <http://doi.org/10.1007/s40430-024-04782-5>
4. The impact of 180° return bend inclination on pressure drop characteristics and phase distribution during oil water flow Mushtaque Momin, Faisal Rahmani, Emad Makki, Mukesh Sharma, Jayant Giri, T. Sathish. Journal Name: Heliyon. Volume, No, Page: 10(2), e24251. DOI: <https://doi.org/10.1016/j.heliyon.2024.e24251>
5. Performance analysis of multi-inlet cyclone separator considering different shapes and locations of the inlet ducts Lakhbir Singh Brar, Faisal Rahmani, Marek Wasilewski. Journal Name: Advanced Powder Technology. Volume, No, Page: 35(2), 104325. DOI: <https://doi.org/10.1016/j.appt.2024.104325>



NEWSLETTER

6. Numerical studies on the oil film thickness in the case of stratified flow with different oil water flow combination through sudden contraction tube
Mushtaque Momin, Soham Mahindar, Faisal Rahmani, Mukesh Sharma. Journal Name: ASME Journal of Fluids Engineering. Volume, No, Page: 146(3), 031401. DOI: <https://doi.org/10.1115/1.4064007>

7. Modelling and motion analysis of an automotive seating track using finite element analysis
Sanskar Zode, Shubham Sheshank, Srinivas Challa, Anil C. Mahato, Jay Prakash Tripathi. Journal Name: ARQII Publication. Volume, No, Page: 8, 40-47. DOI: https://arqiipubl.com/ojs/index.php/AMS_Journal/article/view/567/174

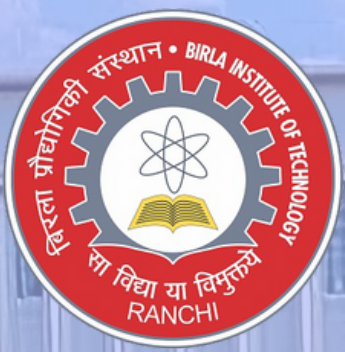
8. Multi-objective optimisation of cyclone separators based on geometrical parameters for performance enhancement
Satyanand Pandey, Marek Wasilewski, Arkadeb Mukhopadhyay, Om Prakash, Asim Ahmad, and Lakhbir Singh Brar. Journal Name: Applied Sciences. Volume, No, Page: 14(5). DOI: <https://doi.org/10.3390/app14052034>

9. Estimation of surface temperature and heat flux over a hollow cylinder and slab using inverse heat conduction approach
Dr. Sushil Kumar Dhiman. Journal Name: Journal of Mechanical Engineering. DOI: <http://dx.doi.org/10.1115/1.1560147>

10. Theoretical analysis and a parametric study on forced vibration of large statically deformed curved beam with rigid links and moving support
Sushanta Ghuku, Anirban Mitra, and Prasanta Sahoo. Journal Name: Journal of Mechanical Engineering Science. Volume, No, Page: Vol. 238(8), pp. 3348-3372. DOI: <https://doi.org/10.1177/09544062231200385>

11. ANN-NSGA assisted investigation of tribo-performance of lead-free nickel boron coating
Rohit Agrawal, Arkadeb Mukhopadhyay. Journal Name: Journal of Process Mechanical Engineering. Volume, No, Page: SCIE, IF: 2.4. DOI: <https://doi.org/10.1177/09544089241241448>

12. Electroless Ni-B coating formed from a stabilizer-free double bath
Rohit Agrawal, Lokesh Gupta, Siddharth Jain, Ritik Sharma, Arkadeb Mukhopadhyay. Journal Name: Transactions of the Indian Institute of Metals. Volume, No, Page: SCIE, IF: 1.6. DOI: <https://link.springer.com/article/10.1007/s12666-023-03220-9>



NEWSLETTER

13. Effect of dimension size on electromagnetic radiation energy characteristics of lead zirconate titanate under drop weight impact load Vishal Kumar, Amit Kumar, Sujeet Kumar Mishra, Kamal Prasad. Journal Name: Taylor & Francis. Volume, No, Page: Vol 618, Issue 2, pp. 501-511. DOI: <https://doi.org/10.1080/00150193.2023.2273726>

14. Performance evaluation and development of FE modeling for passive greenhouse solar dryer for potato chips drying Lalan Kumar, Om Prakesh, Asim Ahmad, Biplab Das, L.S Brar. Journal Name: AIChE.org. DOI: <https://doi.org/10.1002/ep.14373>

15. Performance evaluation of cyclone separators with elliptical cross-section using large-eddy simulation Dinesh Kumar, Kailesh Jha, Vikash Kumar, Lakhbir Singh Brar. Journal Name: Elsevier. DOI: <https://doi.org/10.1016/j.powtec.2024.119660>

16. Influence of an Engineered Notch on the Electromagnetic Radiation Performance of NiTi Shape Memory Alloy Anu Anand, Rajeev Kumar, Shatrudhan Pandey, S.M Mozammil Hasnain, Saurav Goel Journal Name: MDPI DOI: <https://doi.org/10.3390/ma17071708>

17. Synthesis of tragacanth gum-based programmable adhesive for wood binding applications Smita Singh, Gautam Sen, Rajeev Kumar, Jay Prakash Pandey Journal Name: Elsevier DOI: <https://doi.org/10.1016/j.ijadhadh.2023.103601>

18. Exploring the impact of varying notch-width ratios on electromagnetic radiation parameters at tensile fracture of C35000 brass Anu Anand, Rajeev Kumar, Ghulam Anwer, Shatrudhan Pandey, Ahmed Farouk Deifalla, S M Mozammil Hasnain, Mohamed Abbas Journal Name: Sciencedirect DOI: <https://doi.org/10.1016/j.jmrt.2023.12.232>

19. Design and Modeling of small Horizontal axis wind turbine for low wind speed characteristics Ranjeet Ranjan, Richa Pandey, Rahul Singh and Somdev Mohanty Journal Name: Springer link DOI: <https://link.springer.com/search?query=doi>

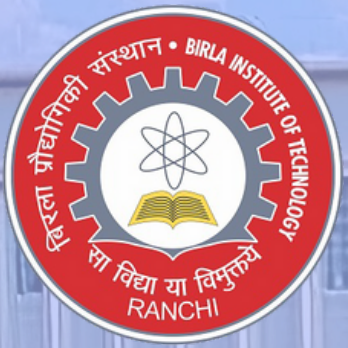
CONFERENCE PUBLICATIONS

1. Bond graph modelling and dynamic analysis of an accumulation based hybrid power transmission for wind turbine Prabhat Ranjan Mahato and Anil C. Mahato conference name-International Conference on Thermo Fluids System Design.

2. Heat transfer analysis around a heated tube under cross flow of air Apoorv Deep Roy and S.K. Dhiman conference name-Int. Conf. on Thermo-Fluids and System Design (ICTFSD2024)

3. Study of pressure distribution around circular cylinders Kunal and S.K. Dhiman conference name-Int. Conf. on Thermo-Fluids and System Design (ICTFSD2024).

4. Heat transfer through a heated rod placed in different arrangements Kunal and S.K. Dhiman conference name-Int. Conf. on Thermo-Fluids and System Design (ICTFSD2024)

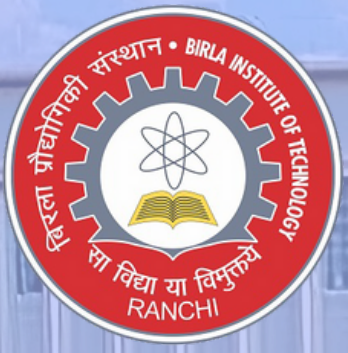


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5. Non-linear elastic property tailoring in large deforming anti-curvature honeycomb lattices Sushanta Ghuku and Tanmoy Mukhopadhyay conference name-2nd International Conference on Mechanical Engineering (INCOM 2024)
6. Predicting an optimal electroless Ni-B coating bath composition for higher thickness using ANN-GA technique Subhash Kumar, Abhinandan Kumar, Vaddi Srikanth, Bhagwan Singh, A Raj, Abhijit Nag, and Arkadeb Mukhopadhyay conference name-Department of Mechanical Engineering, Jadavpur University
7. Comparison of Corrosion Resistance of Electroless Ni-B, Ni-B-W, Ni-B-Mo and Ni-B-W-Mo Coating Obtained from Stabilizer Free Bath Rohit Agrawal, Arkadeb Mukhopadhyay conference name-Department of Mechanical Engineering, Jadavpur University
8. Optimization of Microhardness of Electroless Ni-Cu-Sn-B Quaternary Coating By Using Taguchi Based Optimization Abhinandan Kumar, Arkadeb Mukhopadhyay conference name-Department of Mechanical Engineering, Jadavpur University
9. Multi objective optimization of fin and tube heat exchanger with diagonally aligned straight winglets for performance enhancement Rishikesh Sharma, lakhbir Singh Brar, Saurav Chakraborty, om prakesh, D.P. Mishra conference name-Int. Conf. on Thermo-Fluids and System Design (ICTFSD2024)

PATENTS

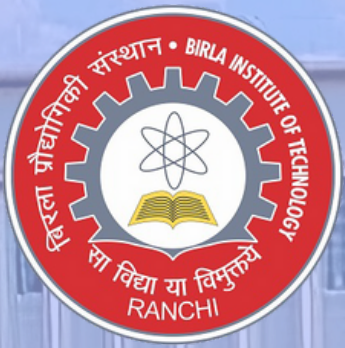
1. A solar still apparatus and method of use thereof Dr. Mukesh Sharma, Dr. Apurba Kumar Roy, Dr. Kaushik Kumar, Dr. Anand Bharti Indian Patent Application no. 202431028924 dated 09.04.2024 Published in official Journal of The Patent Office; Issue 16/2024 Dated 19/04/2024 Page No. 37568
2. A Variable Inertia Flywheel for Power Controlling and Delivering Systems Dr. Anil Chandra Mahata, Prabhat Ranjan Mahato, Dr. Mukesh Sharma, Dr. Arkadeb Mukhopadhyay, Dr. Arun Kumar Kadian Indian Patent Application no. 202331085600A dated 14/12/2023 The Patent Office Journal No. 03 /2024; Dated 19/01/2024
3. A Fin and Tube Heat Exchanger with Inclined Continuous Vortex Generator Dr. L.S. Brar, R. Sharma, Dr. D.P. Mishra Indian Patent Application No. 202431035393 Publication date 10.05.2024 status-published
4. An alpha stream-based stirling system based for power generation and method thereof Dr. Rajeev Kumar, Deepak Raj Indian Patent Application No. 202431021999 Publication date 21.03.2024 status-published



NEWSLETTER

PROJECTS

1. Development of Ni reinforced surface composite of AA5083 with high wear, tensile, and fatigue resistance for modern transportation sector PI-Dr. Arun Kumar Kadian
2. Development of abrasion-resistant electroless Ni-B-W coating on cyclone separator walls and design optimization for longevity with enhanced performance PI-Dr. Lakhbir Singh Brar
3. Nanofluids based solar heat harvesting through modified hybrid PV-TEG panel for sustained solar output and extended life span PI-Dr. S.K. Dhiman
4. A novel hard magnetic soft continuum curved robot: Multi-physical mechanics, active control, modulation, and optimized design (Acronym: NHMSC robot) PI-Dr. Sushanta Ghuku
5. Investigation of stones as sensible thermal storage materials for concentrated solar applications PI-Dr. D.P Mishra
6. Advanced research in energy technology and material testing PI-Dr. D.P Mishra
7. Low cost portable automatic cow-dung log making cum drying machine PI-Dr. Rajeev Kumar

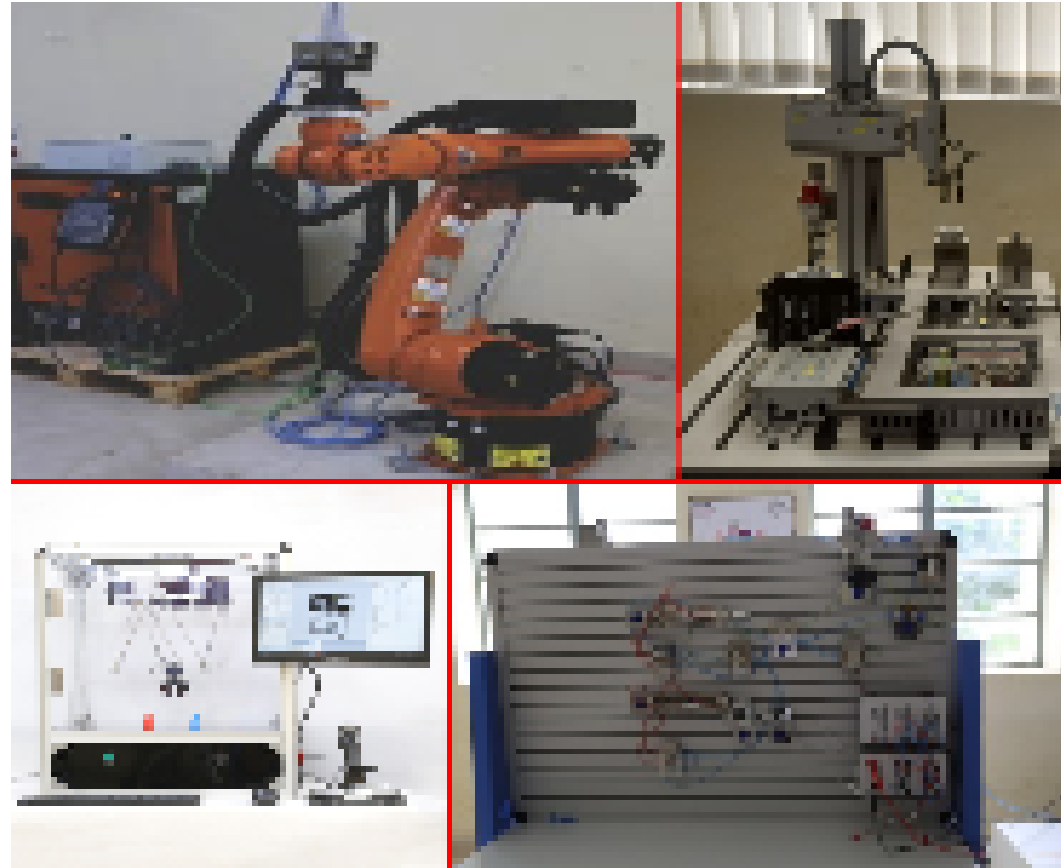


NEWSLETTER

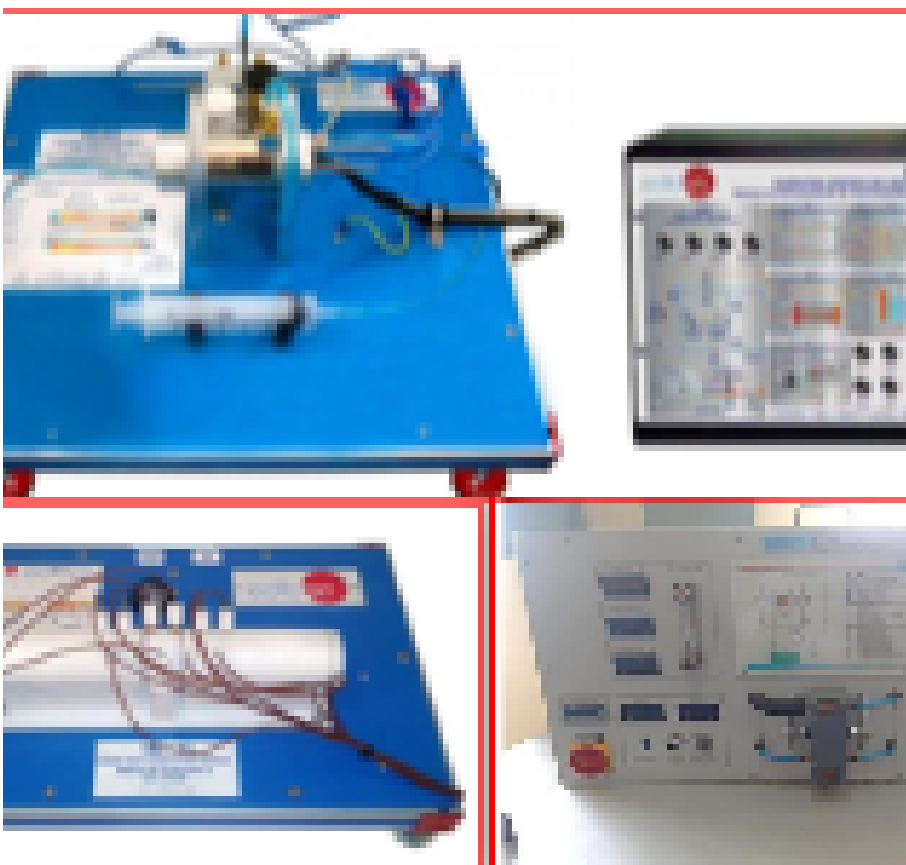
LABORATORIES OF THE DEPARTMENT



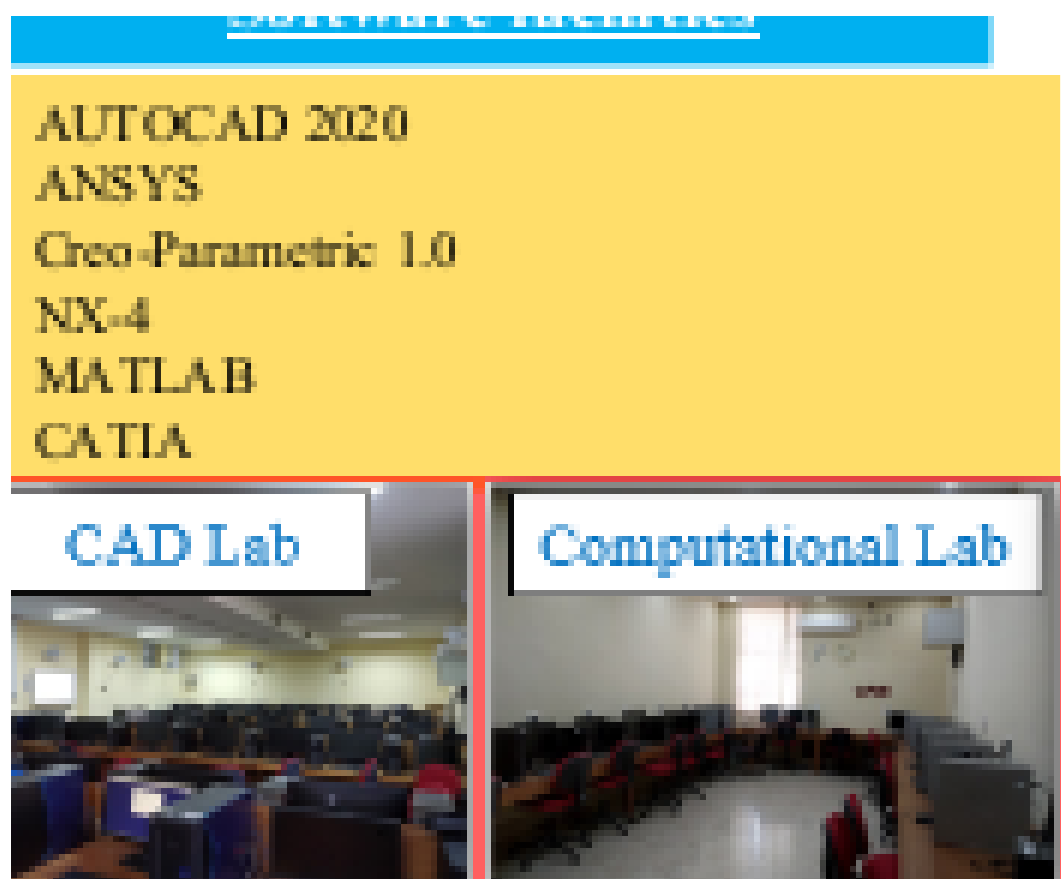
TOM LAB.



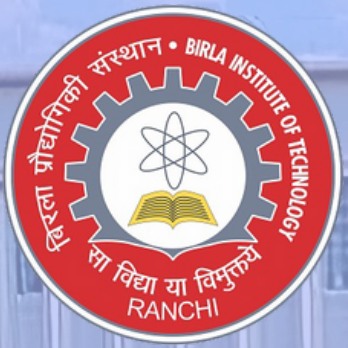
Autonomous Lab.



Heat transfer Lab.



CAD Lab.



NEWSLETTER

LABORATORIES OF THE DEPARTMENT



I. C. Engine Lab.



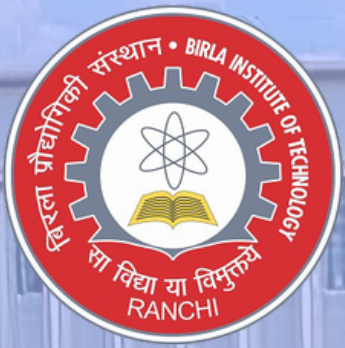
Strength of Material Lab.



Energy Lab.



Fluid Mechanics and Hydraulic Machinery Lab.



NEWSLETTER

SOME NEW EQUIPMENT INTRODUCED IN THE DEPARTMENT



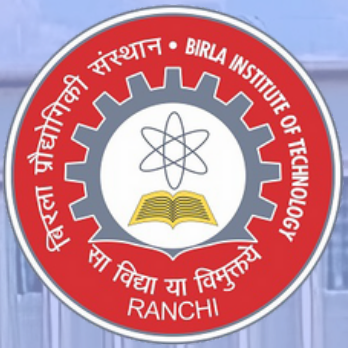
Camera Specifications: VRI-VEO-340L-E225-18G-C

PHANTOM VEO-E 340L, Color 18GB, Memory 12-BIT, 1

Purpose of the camera: To visualize fluid behaviors in different thermo-fluid applications.



The Air Jet Erosion Tester is a device used to evaluate the erosion resistance of materials. It simulates the effects of erosion caused by high-speed air and particles, commonly found in industrial environments like wind turbines or aircraft engines. It assesses a material's ability to withstand erosion, crucial for designing durable components in various industries.



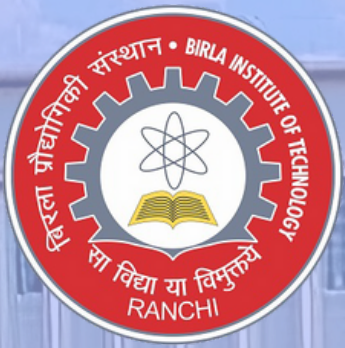
NEWSLETTER



A Surface Roughness Tester is an instrument used to measure the texture of a surface, typically in engineering and manufacturing contexts. It quantifies the irregularities on a surface, providing metrics like Ra (average roughness) or Rz (peak-to-valley roughness). These measurements help ensure product quality, assess manufacturing processes, and meet specific surface finish requirements.

ORIFICE AND MOUTHPIECE APPARATUS





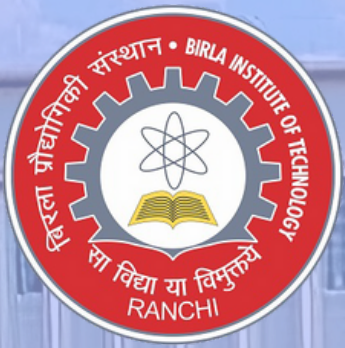
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An orifice is an opening made in the side or bottom of tank, having a closed perimeter, through which the fluid may be discharged. A mouthpiece is short tube fitted to a same size circular opening provided in a tank so that fluid may be discharged through it. Orifice and mouthpiece are used to measure the rate of flow of liquid. The apparatus is designed to measure the co-efficient of discharge of orifice & mouthpiece.

NOTCH APPARATUS



Notch Apparatus is designed for study of flow measurement in open channels using notches & calibration of notches. The set-up consists of a Open Flow Channel, rectangular in cross section. Water enters from one end of the channel & at the other end a notch is fitted. The water flows over the notch section & drains into measuring tank.



NEWSLETTER

ACHIEVEMENTS OF THE STUDENTS

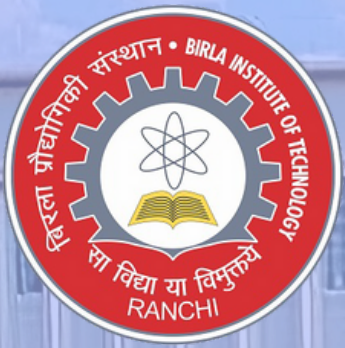
1. T & P COORDINATORS

1. PRANAY KUMAR BTECH/10666/21
2. SHASHANK SHEKHAR BTECH/10326/21
3. AKSHAT SRIVASTAVA BTECH/10924/22
4. DHRUV JAISINGHANI BTECH/10304/22

2. Firebolt Racing



Sales presentation BAJA SAE INDIA- 1



NEWSLETTER

3. TEAM AVEON

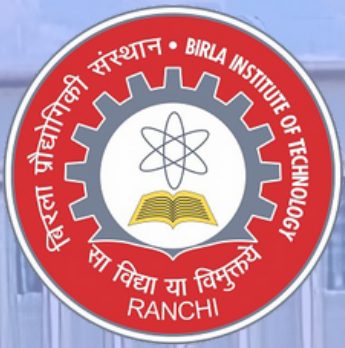


eBAHA SAE INDIA 2024
INNOVATION EVENT
RANK-2nd POSITION

4. NATIONAL TECHNOLOGY DAY



RANK-2nd POSITION



NEWSLETTER

TOUR BY THE STUDENTS

ड्रोन प्रौद्योगिकी में व्यावहारिक दृष्टिकोण" पर कार्यशाला का आयोजन

रामगढ़। राधा गोविंद विश्वविद्यालय में ड्रोन प्रौद्योगिकी में व्यावहारिक दृष्टिकोण पर कार्यशाला का उद्घाटन 4 मार्च को राधा गोविंद विश्वविद्यालय में यांत्रिक अभियांत्रिकी विभाग, राष्ट्रीय प्रौद्योगिकी संस्थान, राउरकेला, अभियांत्रिकी एवं प्रौद्योगिकी विभाग, कंप्यूटर साइंस विभाग एवम राधा गोविंद विश्वविद्यालय रामगढ़ द्वारा संयुक्त रूप से पांच दिवसीय कार्यशाला का शुभारंभ किया गया। कार्यशाला दिनांक 4 से मार्च तक रड्रोन प्रौद्योगिकी में व्यावहारिक दृष्टिकोण के विषय पर होगी। कार्यशाला के प्रथम दिन विश्वविद्यालय के कुलाधिपति बी. एन. साह सर एवं प्रो० जे श्रीनिवास मुख्य संयोजक राष्ट्रीय प्रौद्योगिकी संस्थान, राउरकेला ने इस कार्यशाला का विधिवत उद्घाटन किया। कुलाधिपति ने प्रतिभागियों को संबोधित करते



हुए उन्हें सदैव नित्य नवीन तकनीक सीखने के लिए प्रेरित किया तथा कार्यशाला की सफलता के लिए शुभकामनाएं दी स्वागत भाषण इंजीनियरिंग विभाग के विभागाध्यक्ष डॉ० अरुण कुमार ने किया। विश्वविद्यालय के कुलसचिव डॉ० निर्मल कुमार मंडल ने कार्यशाला को संबोधित करते हुए प्रतिभागियों को आज के परिदृश्य में ड्रोन तकनीक की महत्ता पर प्रकाश डाला। राधा गोविंद शिक्षा स्वास्थ्य ट्रस्ट के सचिव सुश्री प्रियंका कुमारी ने कार्यशाला के सफल आयोजन की कामना की और प्रतिभागियों को इस तरह के आयोजन में प्रतिभाग

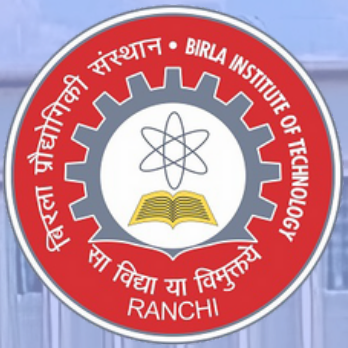
करने के लिए प्रेरित किया। कार्यशाला के प्रथम वक्ता के रूप में एन. आई. टी. राउरकेला से डॉ० पी. एस. बालाजी ड्रोन तकनीक पर विस्तृत जानकारी प्रतिभागियों से साझा की। बी आई टी मेसरा, से आये अगले वक्ता के रूप में डॉ० कौशिक कुमार ने ड्रोन तकनीक की औद्योगिक और समाजिक उद्देश्य पर विस्तृत चर्चा की। कार्यक्रम का संचालन निशा रानी ने किया एवम धन्यवाद ज्ञापन कंप्यूटर साइंस के विभागाध्यक्ष डॉ० संजय कुमार ने किया। कार्यशाला के कॉर्डिनेटर विभागाध्यक्ष डॉ० अरुण कुमार एवं डॉ० चिकेश रंजन रहे।



Attended Ministry of Electronics and Information Technology Sponsored 5-days Workshop On Practical Approaches in Drone Technology Organized by Department of Mechanical Engineering National Institute of Technology, Rourkela In association with Faculty of Engineering and Technology Radha Govind University Ramgarh



**Industrial visit of students at
Jharkhand Government Tool Room, Ranchi**



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EMINENT VISITORS TO THE DEPARTMENT



**Prof. Gautam Biswas
from IIT Kanpur**



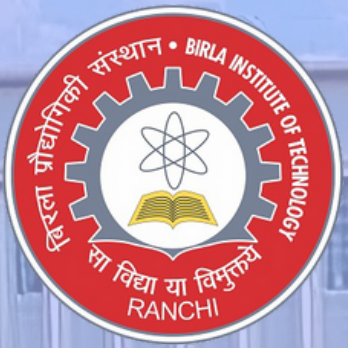
**Prof. Jiban Jyoti Chakraborty
IIT Kharagpur**



**Mr. Rahul Sharda, DGM,
Gebr. Pfeiffer (India) Ltd**



**Prof. Vijay K. Agrawal, VC of
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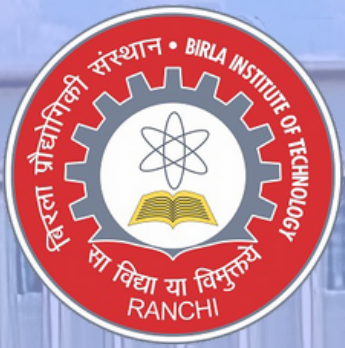
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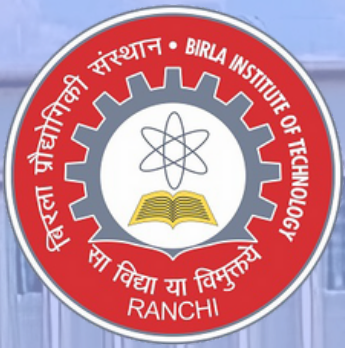
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MECH A



MECH B





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