



OPJU

UNIVERSITY OF STEEL TECHNOLOGY
AND MANAGEMENT

OPJU NEWSLETTER

OP Jindal University, Raigarh



August 2024 • Volume-4 • Issue-8



OP Jindal University



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CONVOCATION 2024

OP Jindal University (OPJU) proudly announces the occurrence of its fourth Convocation, in the presence of distinguished dignitaries, eminent guests, and media teams. This event celebrates the fulfillment of the dreams of both the founder and the graduating students. This year, 459 students graduated, earning 21 Gold Medals, 22 Silver Medals, and 20 Bronze Medals. This notable achievement reflects the university's recognition and appreciation of the hard work and dedication of its students, staff, and faculty mentors.

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Convocation

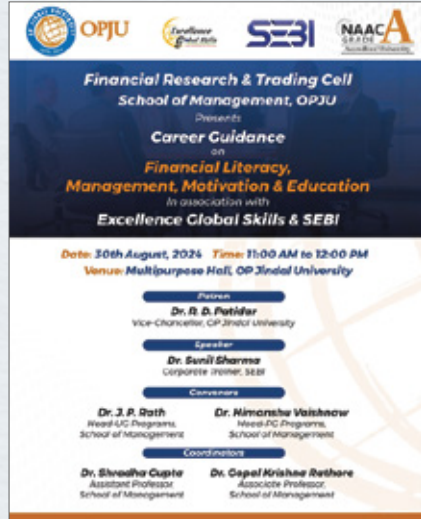


GLIMPSES OF THE CONVOCATION



(A) Events and Activities

1 Dr. Swapnasarit Kar, Er. Pranaba Behera and Mr. Bhakta Kumar Sethi from the Department of Civil Engineering, SoE successfully organized a National Level Hackathon on *Design of a Residential Building (G+4 Apartment type)* for Diploma students from 26 June to 2 August 2024.



2 The Financial Research & Trading Cell of School of Management, in association with the Securities and Exchange Board of India (SEBI) and Excellence Global Skills organized a career guidance session on *Financial Literacy, Management and Motivation & Education* on 30 August 2024.

3 The Department of Computer Science and Engineering, SoE in association with Institution's Innovation Council (IIC) organized a webinar on *Angel Investment/ VC Funding Opportunity for Early Stage Entrepreneurship* on 23 August 2024.



4 The faculty members from the Department of Electrical Engineering, SoE delivered expert lectures at JIPT Tamnar to share advanced knowledge and expertise to foster collaboration between industry-academia.

- Prof. Rakesh Patidar on *Instrumentation & Measurement*
- Prof. Rupesh Patel on *Basics of Theorems (DC circuits), 1 Φ and 3 Φ AC Circuits*
- Prof. Shashikant Kaushaley on *Basics of Synchronous Machine*
- Prof. Pushpanjali Shadangi on *Basics of Control Systems and its applications*

5 The Microbiologist Society of India (MBSI) Student Chapter, Department of Biotechnology, School of Science, organized an *Essay Writing Competition on Advancement in Industrial Biotechnology* on 30 August 2024, in honor of Small Industry Day. This competition provided students with a platform to articulate recent developments and innovations in the biotechnology industry.



- 6 **Dr. Sanjay Kumar Singh** from the Department of Humanities, School of Science delivered a career counseling session focused on *Personality Development and Success through Active Listening and Positive Attitude* for students on 31 August 2024. Additionally, he conducted a training program for teachers at MSP Public School, Jamgaon, enhancing their professional skills and pedagogical approaches.



- 7 The Department of Mechanical Engineering, School of Engineering (SoE), in collaboration with the Centre of Excellence in Manufacturing and Automation and the SAE India Collegiate Club, organized a One Day immersive CNC machining session for 5th semester students on 9 August 2024. The session provided a comprehensive training program on Computer Numerical Control (CNC) technology. Students engaged in interactive learning covering CNC coding, machine operation and safety, toolpath simulation, and actual production processes, gaining fundamental knowledge and hands-on experience in CNC machining.



- 8 The Department of Mechanical Engineering, School of Engineering (SoE), on 18 August 2024, organized a one-day hands-on session for 3rd-semester students, focusing on drones. The session aimed to provide students with practical experience in understanding and assembling key drone components.

- 9 **The National Sports Day** of India was celebrated at OPJU with a special tribute to Major Dhyan Chand. A **5 KM run** was organized, bringing together faculty, staff, security personnel, and students from OPJCC. Winners were honored with medals and certificates in various categories.



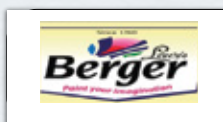
10 A Team from Career Development Cell (CDC) visited Jindal Power Ltd. in Tamnar, where they met with **Mr. Ashish Kumar**, CHRO, and **Mr. Ramesh Tiwari**, AGM-HR and discussed potential industry academia collaborations across various areas, exploring opportunities to strengthen the partnership between the industry and the academic institution.



11 **Dr. Mithilesh Kumar Sahu** from the Department of Mechanical Engineering, SoE delivered an expert lecture on *Thermodynamics and Heat Transfer in Thermal Power Plants* for PGDPPT students of JIPT on 13 August 2024.

(B) Placement

1 Placement Drives conducted at OPJU



Company Name: HDFC Bank
For the Batch: B.Tech (Mech) 2024



Company Name: Jindal Steel & Power
For the Batch: Diploma 2024



Company Name: WarmLeadz
For the Batch: UG/PG 2024



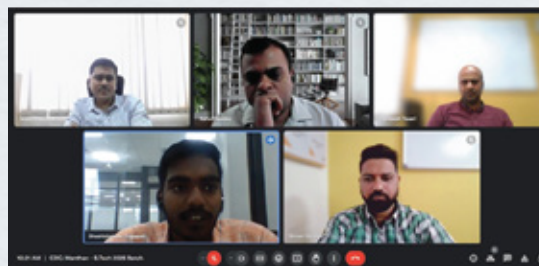
Company Name: Berger Paints
For the Batch: B. Tech/ MBA 2024



Company Name: Mahindra & Mahindra
For the Batch: B.Tech (Mech/Meta) 2024

2 Preparatory Session

Team CDC (Career Development Cell) conducted an interactive session called *Manthan* for the B.Tech 7th semester students across all streams in the School of Engineering from 12 to 14 August 2024. The session aimed to familiarize students with the new initiatives and placement policies of CDC, followed by one-to-one interactions to assess their career aspirations and guide them for better preparation.



3 Students selected through Campus Drives

Congratulations!
For Selection @


Sanskar Pandey (B.Tech Mech),
 Anshuman Mishra (B.Tech Mech),
 Siddhant Yadav (B.Tech Mech),
 Bhargava Chandra (B.Tech Mech),
 Sachin Sharma (B.Tech Mech),
 Shivam Pandey (B.Tech Mech),
 Kunal Joshi (B.Tech Mech),
 Harshit Singh (B.Tech Mech),
 Pranshu K. Mishra (B.Tech Mech),
 Abhinav K. Giri (B.Tech Mech),
 Sandeep Bahu (B.Tech Mech),
 Vishal Pandey (B.Tech Mech),
 Yagnendra Prasad (B.Tech Mech)

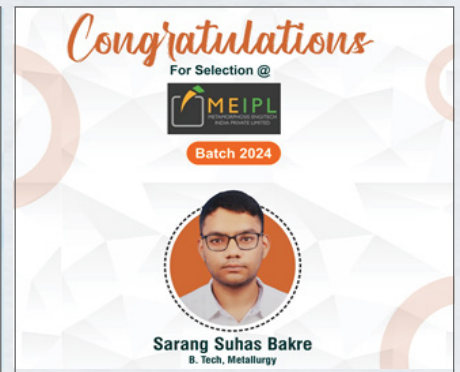
CONGRATULATIONS!
BATCH- 2025
For selection @

Long-Term Paid Internship

Animesh Ranjan Tiwari (B.Tech Mechanical),
 Avinash Singh (B.Tech Mechanical),
 Roshan Singh (B.Tech Mechanical)

Congratulations!
Batch 2024 for Selection @


Sanskar Pandey (B.Tech Mech),
 Ankur Singh (B.Tech Mech)



(C) Research and Publication

1 **Dr. Rakesh Nayak** and **Dr. Umashankar Ghugar** from the Department of Computer Science and Engineering, SoE, have published a book chapter titled *Role of SPSHS* in the book *Security and Privacy Concerns in Smart Healthcare Systems*.
www.taylorfrancis.com/chapters/edit/10.1201/9781032698519-4/spshs-umashankar-ghugar-rakesh-nayak-praveen-gupta-satyabrata-dash



2 **Dr. Umashankar Ghugar** from the Department of Computer Science and Engineering, SoE published an article titled *HEERPOP: Hybrid Energy Efficiency Routing Protocol for Optimal Path in the Internet of Things-Based Sensor Networks* in the International Journal of Computer Networks and Applications (IJCNA), which is indexed by Scopus and classified as a Q3 journal.

3 **Dr. Shradha Gupta** from School of Management published a research paper titled *Role of Women Entrepreneurship in Reduction of Social Norms for Sustainable Development* in the Journal of Informatics Education and Research (ISSN: 1526-4726), Vol. 4, Issue 3 (2024).
jier.org/index.php/journal/article/view/1401



4 **Dr. Siddharth Chakrabarti** from the Department of Mechanical Engineering, School of Engineering published a research paper titled *Development of Rotary Dehumidifier with Silica-Gel-Based Composite Desiccant* in the Thermal Science Journal.



5 **Prof. Akash Pandey** from the Department of Mechanical Engineering, School of Engineering, published a research paper titled *Rheological Characteristics of High Ash Indian Coal with Sodium Dodecyl Sulfate as Additive* in the Journal of Solid Fuel Chemistry.



6 **Dr. L.R. Bhandarkar** and **Dr. Mukesh S. Desai** from the Department of Mechanical Engineering, School of Engineering have successfully published an industrial design patent titled *Real-Time Brake Analyser* (Patent No. 421328-001), granted by the Indian Patent Office.





7 **Dr. Girish Mishra** from the School of Science published a research paper titled *Synthesis and Luminescence Properties of CaZr(PO₄)₆: RE (RE = Eu³⁺, Dy³⁺) Orthophosphate Phosphor for n-UV Solid-State Lighting Prepared by Solid State Synthesis* in the Journal of Optics (Springer), a Scopus-indexed journal.



8 **Dr. Kavita Patel** from the School of Science published a research article titled *Novel Idea and Approaches of Sanitizer Preparation from Indian Herbs and Their Action* in the International Journal of Research Publication and Reviews (ISSN No: 2582-7421).



(D) Achievements

1 **Dr. Princy Diwan** from the Department of Computer Science and Engineering (CSE) successfully defended her Ph.D. viva voce at Amity University Chhattisgarh on 29 August 2024. Her research focused on *Intellectual Share Estimation of Medical Research and Its Protection Mechanism*.



2 **Dr. Suchismita Panda** from the School of Science successfully defended her Ph.D. viva voce at Amity University Chhattisgarh on 30 August 2024. Her thesis was titled *Burden of Urban Calcutta in Select Works of Mani Sankar Mukherji*.



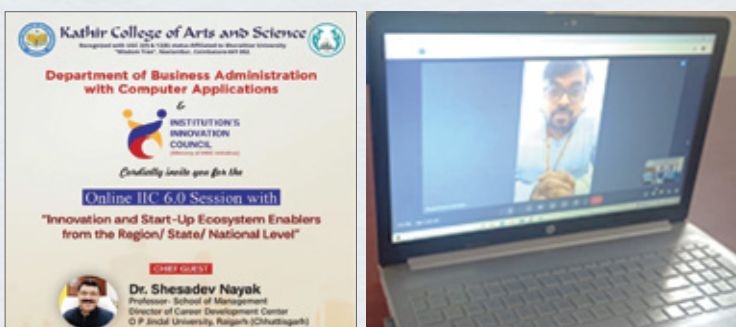
3 The Department of Metallurgical Engineering, School of Engineering (SoE), completed a project titled *Failure and Defect Analysis of C Section, I Section, and TMT Bar*, sponsored by MSP Steel and Power Ltd, Raigarh.

4 **Prof. Asim Kiran Dandapat** from the Department of Computer Science and Engineering (CSE), SoE attended the NPTEL Workshop at IIT Kharagpur Research Park. He was recognized and appreciated for his instrumental role as the SPOC (Single Point of Contact) for the SWAYAM-NPTEL Local Chapter.



5 **Dr. M. Kalyan Phani** from the Department of Metallurgical Engineering, SoE has been invited to join the advisory board of the Jeppiaar Research and Development Organization (JRDO) at Jeppiaar University, Chennai. The JRDO objectives are to create a valuable knowledge center by fostering research and extension activities in collaboration with professional bodies, industries, and research establishments.

6 **Dr. Shesadev Nayak**, Director of the Career Development Cell (CDC), was invited as the Chief Guest to speak on *Innovation and Start-up Ecosystem Enablers from the Region/State/National Level* at the 6th IIC Session, organized by Kathir College of Arts and Science, Coimbatore, TN, on 28 August 2024.



8 **Dr. Bhupesh Kumar Dewangan** the Department of Computer Science and Engineering (CSE) successfully delivered a guest lecture on *What After Diploma in Computer* at Govt. Polytechnic College, Kawardha.

7 Prof. Nandalal Acharjee and Dr. Nidhi Khobragade from the Department of Metallurgical Engineering, School of Engineering (SoE), participated in a one week online Faculty Development Program (FDP) on **Technological Advancement in Synthesis of Novel Materials** organized by CBIT (affiliated to Osmania University), Hyderabad, from 5-10 August 2024



8 Shruti Kumari and Mahak Acharya, students of the B.Sc 5th Semester from the Department of Biotechnology, School of Science participated in a three-day Boot Camp organized by AIC IIT Delhi Sonipat Innovation Foundation, Haryana. They successfully qualified for the next round of pitching and were nominated for the Sonipat Startup Summit 3.0.



9 Kushal Kumar Barsiwal and Udit Vardhan Singh, students of B.Tech 5th & 7th Semester, Department of Mechanical Engineering, SoE participated in the prestigious **World Robotics Championship** in New Delhi to showcase their skills and innovation.

10 Mr. Sakir Ali, Mr. Naresh Kumar Mourya, and Mr. Abhishek Yadav, students of B. Tech 7th Sem, Department of Metallurgical Engineering completed Short Term Training Course on **X-Ray Diffractions: Theory, Methods, and Workflow (XRD- 2024)** organized by Department of Physics & Materials and Metallurgical Engineering, MANIT Bhopal.



11 Ankit Patnayak, student of M.Tech 1st semester from the Department of Computer Science and Engineering, SoE successfully completed the workshop on **Introduction to Artificial Intelligence, Machine Learning, Deep Learning, Natural Language Processing, and Computer Vision**, organized by IBM SkillsBuild.



12 Anjali Kumari, student of B.Tech 5th semester from the Department of Computer Science and Engineering, SoE completed **vocational training** at Tata Steel Jamshedpur, gaining knowledge in e-commerce website fulfillment and payment solutions.



13 Aadarsh Soni, a student of B.Tech 5th semester from the Department of Computer Science and Engineering, SoE received an offer for an internship at *Roadlyne Logistics Solutions Pvt. Ltd.* and the company will pay a stipend of Rs. 12,000 per month.

(E) Emerging Technologies/ Techniques

REAL-TIME BRAKE ANALYZER

(Source: Dr. L. R. Bhandarkar, Dr. Mukesh S. Desai; Adapted from: Indian Patent Office for Patent on Design and Trademarks; Application Number : 421328-001))

REAL-TIME BRAKE ANALYZER is a tool used in automotive diagnostics to assess the performance of a vehicle’s braking system in real time. This device typically monitors various parameters such as brake pressure, temperature, pad wear, rotor condition, and braking force. By analyzing these data points, it helps to identify potential issues with the braking system, ensuring safety and efficiency. Some advanced brake analyzers also provide visual feedback or graphs to showcase the braking performance under different conditions, like varying speeds or loads.



Figure: Real-Time Brake Analyzer

They are often used by automotive technicians, engineers, or during vehicle inspections to diagnose brake problems accurately and efficiently. Real-Time Brake Analyzer consists of a revolutionized vehicular braking systems through real-time analysis and evaluation of brake discs. Tailored for portability, the device features a robust yet lightweight chassis with a matte finish and integrated solar cells for renewable energy use. Its front showcases a high-resolution display and intuitive control buttons for easy operation. At its core, device is equipped with advanced sensors that non-invasively assess the brake disc’s thermal performance, providing comprehensive data on heat dissipation efficiency and potential hotspots. This data is analyzed in real-time by onboard algorithms, which compare it against a database of ideal performance metrics for Aluminum metal matrix composite disc brakes. The device offers actionable insights and suggests areas for improvement.

(F) Upcoming Events



**Mechanical Engineering
International Conference
(MEICON 1.0)**

December 19th & 20th 2024 | Raigarh, India

Paper Submission OPEN !!!

Convenors
Dr. L. R. Bhandarkar / Dr. Mithilesh Kumar Sahu
(+91) 9109977042/ 9798153911
faxminarayan@opju.ac.in/ mithilesh.sahu@opju.ac.in
www.meicon.opju.ac.in

Call for Papers

Proceedings will be published in



AIP Conference Proceedings

Indexed in Scopus, Web of Science

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Raigarh, Chhattisgarh, India - 496109



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OPJU O. P. Jindal University, Raigarh **NAAC GRADE A Accredited University**

Celebrating the birth anniversary of **Mokshgundam Visvesvaraya**

Engineer's Day
15 September 2024

On this occasion
Department of Electrical Engineering,
School of Engineering organizing the following events:-

- Technical Idea Presentation 16th Sep 2024
- Digital Poster Presentation 16th Sep 2024
- Project Model Presentation 30th Sep 2024

Scan This QR For Registration

Registration Link : <https://forms.gle/pDvhT7NIVd5TNhBJ7>

For more Detail :

Prof. Rakesh Patidar (Asst.Prof.)
Ph. 9109909265

Prof. Shashikant Kaushaley (Asst.Prof.)
Ph. 8839995506

Co-Coordinator
Mr. Kapil Hashina (9309977018) Mr. Jagan Kishore (9398972109)

Student Coordinator
Subhash Shank (8248137773) Anika Bhatti (9693993716)

Price Money Worth of **₹ 13000**

In association with

OPJU **Metropolis** **Amity University** **SRM Institute of Science and Technology** **SRM Institute of Technology** **SRM Institute of Science and Technology** **SRM Institute of Science and Technology**

5TH INTERNATIONAL CONFERENCE
ON
The Role of Innovation, Entrepreneurship and Management for Sustainable Development (ICRIEMSD)
(Hybrid Mode)
October 17 & 18, 2024 **CALL FOR PAPERS**

Track-1 Innovation and Sustainable Development in Human Resource Management
Track-2 Innovation and Sustainable Development in Marketing
Track-3 Innovation & Sustainable Development in Finance
Track-4 Innovation & Sustainable Development in Tourism, Agri-Business Management, Entrepreneurship & CSR
Track-5 Innovation and Sustainable Development in Operations & Supply Chain Management
Track-6 Innovation and Sustainable Development in Information Technology & Management

Selected Papers will be Published in Reputed Journals (IASEC, Scopus, WoS & UGC Care)
Opportunity to get Published in Special Issue of OPJU Business Review
Abstract shall be Considered for Conference & proceedings with ISBN
Conference Workshop and Keynote Speeches from Renowned Researchers and Academicians
Best Paper Awards with Attractive Cash Prizes in each Technical Session
Best Paper Awards with attractive Cash Prizes in Student's Technical Tracks

Important Dates

| | |
|--|-----------------------|
| Last Date of Submission of Abstract | 16 August, 2024 |
| Notification of Acceptance of Abstract | 19 August, 2024 |
| Last Date of Submission of Full Paper | 15 September, 2024 |
| Last Date of Early Bird Registration | 15 September, 2024 |
| Conference Dates | 17 & 18 October, 2024 |

Registration Fee

| Category | Early Bird | Regular |
|----------------------------------|------------|---------|
| Faculty Members | ₹ 2000 | ₹ 2500 |
| Research Scholars | ₹ 1000 | ₹ 1500 |
| Students (Bachelors) | ₹ 500 | ₹ 1000 |
| Industry (Working Professionals) | ₹ 3000 | ₹ 4000 |
| International Participant | ₹ 80 | ₹ 100 |

*The Registration Fee is charged per Author

For More Details Visit www.opju.ac.in/icriemsd2024

New Addition to OPJU-Talent Pool



Mr. Rahul Pandey
Senior Manager, Career Development Center
B.Tech, MBA
9 years of work experience



Dr. Puja Hansdah
Assistant Professor, Dept. of Mining, SoE
B.Tech, Ph.D.
3 years of work experience



Dr. Anand Kumar Shrivastava
Professor, School of Management
BA, MA, M.Phil, Ph.D.
18 years of work experience

Editorial Team

Chief Editor



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Assistant Professor, Dept. of Humanities,
OP Jindal University, Raigarh

Designer



Mr. Praveen Dewangan
Assistant Manager, Marketing & Outreach Dept,
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Assistant Professor, Dept. of Electrical Engg.,
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