



O. P. Jindal University Raigarh









NEWSLETTER

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NPTEL Certification Achievers at OPJU







M.Sc. Chemistry - 3rd



Devashish Mehar B.Sc, Physics - 5th



Shagufta Naaz M.Sc, Chemistry - 3rd



Yogita Verma M.Sc, Chemistry - 3rd



B.Tech- 5th, Metallurgy



Achievers from School of Science





Manisha Pradhan B.Sc, BioTech - 3rd



Khushi Singh



Supriya Bharati





Visakha M.Sc, Chemistry - 3rd



Anju Gupta



Naresh Patel M.Sc, Chemistry - 3rd



Deeksha Gupta M.Sc, Chemistry - 3rd



Kumkum Rani M.Sc, Chemistry - 3rd



Prerna Dewangan M.Sc, Chemistry - 3rd



Devshree Mondal



Sunita Bhoi



Pratibha Sharma



Uma Malakar M.Sc, Chemistry - 3rd



Yugma Dansena M.Sc, Chemistry - 3rd



Sonali Baral

Achievers from School of Engineering



Anjali Sidar B.Tech - 7th, Mech



Barun Kumar Sahu B.Tech - 5th, Mech



Prashant Sahu



Praveen Kushwaha B.Tech - 5th, Mech



Priyanshu Kumar B.Tech - 5th, Mech



Kajal Swarkar B.Tech - 7th, CSE



Reshma Ekka B.Tech - 7th, CSE



Julfekar Ahmed B.Tech - 5th. Meta





Glittering Gems

Four students of OPJU were awarded with the OPJEMS Scholarship-2024



Masuma Keshari

B.Tech - 5th

Dept. of Civil Engg.



Riyansha Choudhary MBA - 3rd School of Management



/ Nikita Sahu B.Tech - 7th Dept. of Mechanical Engg.



Anshuman Dwivedi B.Tech - 5th Dept. of Mechanical Engg.



Students Showcased Sustainable Solutions at National Conference

Students from O.P. Jindal University (OPJU) presented their research on sustainable practices at the National Conference on Innovative Strategies for Sustainable Water Resources Management and Environmental Protection in Civil Engineering. The conference, held by Lakhmi Chand Institute of Technology, Bilaspur from November 12 to 13, 2024, provided a platform for young researchers to share their innovative ideas.

Mr. Anosh Kujur, Research Scholar from the Department of Civil Engineering, SoE, presented on *Microbial Concrete for the Development of Sustainable Construction*.



Ms. Akanksha Singh Chandel, M.Tech Scholar from the Department of Civil Engineering, SoE, discussed Sustainable Improvement of Locally Available Soil Using Alkali - Activated Hybrid Sawdust Ash.



Ms. Diksha Rathore, M.Tech Scholar from the Department of Civil Engineering, SoE Analyzed the Strength Properties of Concrete Using Nano Silica.



Ms. Nidhi Kumari & Mr. Rounit Singh from the B.Tech Computer Science and Engineering, presented their research on *IoT-Driven Sustainable Water Conservation and Recycling Model*.











Success Doubled

Two CSE Teams Advanced to Smart India Hackathon Finals!



Team N Square (NetworkNest), comprising Soumya Mittal, Om Rathore, Anurag Gupta from B.Tech 7th Semester, along with Aadarsh Soni, Swapnil Singh and Satendra Kumar from B.Tech 5th Semester, will participate in the final event of SIH 2024 at IIT Gandhinagar. They will address the problem statement Implementation of the Alumini Association platform for the University/Institute.



Team Code Checkers, comprising Amit Kumar Chauhan, Avinash Shrivastava, Divakar Yadav, Kanha Thethwar and Pratyush Behera and Kajal Gupta, all from B.Tech 5th Semester will participate in the final event of SIH 2024 at Wardhman Engineering College, Hyderabad. They will address the problem statement 1659 Data Download Duplication alert.

Ch. Apporva Selected for Prestigious Metallographic Contest

Ms. Ch. Apporva, a student in the B.Tech V semester from the Department of Metallurgical Engineering got selected for the Metallographic Contest organized by the Indian Institute of Metals- Annual Technical Meet 2024 (IIM- ATM 2024) from November 20- 22, 2024. The Annual Technical Meeting (ATM) of the Indian Institute of Metals (IIM) serves as a flagship event, annually drawing participants from various sectors of industry, academia, and R&D institutions.





BBA Students Triumphed at Madhugunjan Shringar 2024

Nayana Patruni Tanuja, Tanushree Majumdar and Swati Sethi, Students of BBA-I semester from the School of Management secured First position in the Solo Dance Category and Duet Dance Category at the All India Dance, Music, Art Competition and Dance Festival "Madhugunjan Shringar 2024" organized by Nagar Palika Nigam during 15 to 17 November 2024.



OPJU Received Prestigious Awards for Industry-Academia Excellence

O.P. Jindal University, Raigarh was honored with two prestigious awards at the "ZIES Award Program" and "IIRF Industry Academia Skill Conclave" held in New Delhi on November 8-9, 2024. The University was recognized as the *Best University for Excellence in Industry-Academia Collaboration* and the *Leading Private University for Academic Excellence*, highlighting its strong commitment to both academic and industry excellence.





ICSPE 2024 at OPJU Focused on Sustainable Energy Solutions

The Department of Electrical Engineering, OPJU organized the International Conference on Sustainable Power and Energy (ICSPE 2024) on November 28-29, 2024, at Jindal Centre, JSP Raigarh, in hybrid mode. The conference addressed key topics like sustainability, carbon footprint reduction, microgrids, and AI in power systems, with 263 submissions and 78 accepted papers. Inaugurated by Chief Guest Prof. (Dr.) Ashok Kumar Triparty, Ex-DG of CPRI Bengaluru, the event stressed the importance of sustainable energy in mitigating climate change. Guests of Honour included Dr. K.B. Mohanty (NIT Rourkela), Dr. Subhojit Ghosh (NIT Raipur), and Mr. Sabyasachi Bandopadhaya (JSP Raigarh).



CSE Student Selected as Marketing Intern for IIT Madras' Shaastra 25

Ms. Sheetal Payal, student of 5th Semester from the Department of Computer Science & Engineering has been selected for the esteemed role of Marketing Intern under the Campus Ambassador Program for Shaastra 25, organized by IIT Madras.





Rishabh Tiwari Completes UI/UX Design Internship at Aksonilive Technologies

Mr. Rishabh Tiwari, student of 5th Semester from the Department of Computer Science & Engineering, completed his internship program as a UI/UX Design Intern at Aksonilive Technologies. The internship took place from September 30 to November 20, 2024.



Students Excelled in East Zone Inter University Kabaddi Tournament

Mr. Mandal Ankit Kumar, student of the B.Tech V semester, Mr. Ayush Turanker, Mr. Yuvraj Singh Rajpoot, students of the B.Tech I semester and Mr. Mukul Deshmukh, student of B.Tech I semester from the Departments of Metallurgical Engineering and Mining Engineering respectively participated in East Zone Inter University Kabaddi (Men) Tournament 2024-25 at Major Dhyanchand Indoor Stadium organized by V.B.S. Purvanchal University, Jaunpur (U.P) from November 06- 09, 2024.



Expanded Horizons in Material Science

Mr. Sakir Ali, a student in the B.Tech VII semester from the Department of Metallurgical Engineering participated in the Short Term Training Program on Al/ ML in Computational Material Science organized by the Department of Materials and Metallurgical Engineering, Maulana Azad National Institute of Technology from September 02- 06, 2024.





O1 SPARDHAA'24:

A 3-Day Inter-School Extravaganza of Sports, Technology, and Science

O. P. Jindal University organized a 3-days Inter-School Sports, Technology, and Science Event *SPARDHAA'24* from November 16 to 18, 2024, in which 35+ Schools and 1200+ students participated from Raigarh District which was launched in the presence of Collector & SDM, DEO, and CEO, Jila Panchayat, Raigarh. This event aimed to bring together students from various schools across the district of Raigarh and nearby areas to celebrate and compete in various sports, technology, and Science competitions, as well as to showcase their scientific knowledge, creativity, and technical skills. The major focus of the events were hands-on training and competition on Drone Technology, Robotics, Electric Vehicle, science model exhibition, science quiz, team building activities, ethics etc.

- Chief Guest: Shri Kartikeya Goel, IAS, Collector & District Magistrate, Raigarh
- Guest of Honor: Shri Jitendra Yadav, CEO, Jila Panchayat, Raigarh
- Dr. K.V. Rao, District Education Officer, Raigarh
- Dr. R.D. Patidar, Vice Chancellor, OP Jindal University
- Dr. Anurag Vijaywargiya, Registrar, OP Jindal University





SoS Students Showcased Folk Dance and Music at "VIVIDHA"

The School of Science, in collaboration with the Cultural Club (Utsah), organized a cultural event titled **VIVIDHA** on November 26, 2024. The event, themed "Folk Dance and Folk Singing" aimed to prepare students for the state-level **Yuva Mahotsav** event organized by the Chhattisgarh Government.



03

Felicitation ceremony of OPJU budding Stars



On November 27, 2024, 11 students from B.Tech Mechanical, Electrical, and Metallurgy who secured placements at Jindal Saw Gulf LLC, Abu Dhabi (International Placements), and Jindal Steel & Power, were felicitated at OPJU for their achievements. The ceremony resonated with the motivational and insightful words by Hon'ble Vice-Chancellor Dr. R.D. Patidar, Registrar Dr. Anurag Vijaywargiya, Director of CDC Dr. Shesadev Nayak, and Dr. Satyabrata Das, Steel Chair and Head of Metallurgy and Mining.

04

CSE organized AR/VR Metaverse Illuminated Session with Industry Expert

The Department of Computer Science & Engineering recently organized a special session focused on the cutting-edge technologies on *Augmented Reality and Virtual Reality* on November 18, 2024. Dr. Rohit Ahuja, a distinguished faculty member from Tata Institute of Engineering and Technology, shared his expertise, guiding students through the core concepts, real-world applications, and far-reaching implications of AR and VR.



05

Workshop to Empower Innovators with Funding



The Department of Computer Science & Engineering at OPJU is committed to nurturing innovation and has taken a significant step towards this goal by organizing a workshop on *Mentoring Session for Innovators on Software Product Development Grant/Funding*. Held on November 21, 2024, the session offered invaluable uidance to aspiring entrepreneurs, helping them unlock the potential of their software ideas through strategic funding acquisition.

06

Alumni Shared Insights on Campus Drive



The Department of Mechanical Engineering, School of Engineering, organized an alumni talk on **How to Prepare for the Campus Drive** on November 14, 2024, for 3rd and 5th semester students. Mr. Ayush Kumar Pandey, 2023 graduate recently selected by Jindal Saw Ltd Gulf in Abu Dhabi, shared valuable insights. He discussed strategies for GATE preparation, securing internships, improving communication skills, and undertaking live industry projects. Dr. Mukesh Desai, Associate Professor, coordinated the event.

07

Online Parents-Teacher Meeting by the Department of Mechanical Engineering

The Department of Mechanical Engineering, School of Engineering, organized an Online Parent-Teacher meeting on 11th November, 2024. The prime objective of this meeting was to provide a platform for parents to discuss the overall development of their wards and interact with the faculty and staff members of the department. 120+ parents of 1st, 2nd, 3rd and 4th-year students joined the meeting

120+ ting

and understood the key initiatives taken by the department for the overall development of their wards.



Expert-Led Quantitative Aptitude Course Concluded Successfully



The Department of Mathematics, School of Science, organized a comprehensive Value Added Course on **Quantitative Aptitude** from November 6th to 22nd, 2024. The course comprised 10 sessions conducted by ten expert faculty members. Dr. Debasmita Samal and Prof. Shrikant Chaini efficiently coordinated the event.



From Idea to Impact: Entrepreneurial Masterclass

The Department of Computer Science & Engineering, in collaboration with the Institution's Innovation Council and OPJU Innovation Center, hosted an inspiring session titled *From Idea to Impact: Motivational Session by Successful Entrepreneur/Start-Up Founder*. Mr. Adari Gyanesh Rao Kumar, the Chairman & CEO of Gyanadraksha wydhumraketustra snbrahmkr Pvt. Ltd., shared his entrepreneurial journey and insights with students on November 29, 2024.



10 B.Tech Mining Students Visited Gare Palma Coal Mines and VTC

On November 26, 2024, students from the 3rd semester Diploma and 1st semester B.Tech Mining Engineering visited Gare Palma Coal Mines IV/2 & IV/3 and the Vocational Training Center (VTC) of Coal Mines operated by JPL in Tamnar, Raigarh. This educational visit, organized as part of the Mining Engineering curriculum, provided students with valuable insights into coal mining activities and the various machinery used in coal exploration.



Chhattisgarh Yogasana Championship Showcased Yoga's Power at OPJU



The Chhattisgarh Yoga Association of Raipur successfully organized the 5th Senior and Master State Level Yogasana Sports Championships (18-55) from November 22-24, 2024, at OPJU campus. This event highlighted the cultural significance of yoga and its role in promoting holistic well-being. Over 160 participants from 15 districts, along with 30 officials, contributed to the smooth conduct of the competition, which included categories like Individual Yogasana, Artistic Yogasana, Rhythmic Yogasana, Group Yogasana, and Traditional Yoga Practices. Raipur District emerged as the overall champion, followed by Raigarh District and Bilaspur District.

12

Students of OPJU Spread Joy and bond of empathy at Netrahin Bal Vidya

Students from B.Tech CSE, under the guidance of Mr. Manoj Singh, recently visited Netrahin Bal Vidya Mandir in Amlidih Gharghoda Raigarh. The students interacted with the visually impaired children and were amazed by their incredible talents in singing, harmonium,



and tabla. The visit was a heartwarming experience, fostering a sense of compassion and solidarity.



Informative session on Scholarship and Internship Opportunities Held for **Undergraduate Science Students**



The School of Science organized a special lecture session titled Scholarship and Internship Opportunities for Undergraduate Science Students on November 14, 2024. Dr. Taniya Sengupta Rathore, Associate Professor, Department of Biotechnology, was the speaker for the event, which was coordinated by Dr. Arindam Patra.

Expert Lecture on Disaster-Resilient Infrastructure

The School of Science in association with the School of Management Organized a Guest lecture session on *Principle of Disaster Resilient Infrastructure Design and Construction* on November 25, 2024. Er. Awdhesh Kumar, Head of Department of Civil Engineering, Invertis University was the Resource person. Dr Arindam Patra was the event coordinator.



15

ICC and Social Empowerment Club Address Women's Safety



The Internal Complaints Committee (ICC) in association with the Social Empowerment Club Organized a special lecture session on *Women's Safety* on November 12, 2024. Dr Deepti Sharma, Associate Professor, School of Management was the Resource person. Dr Debasmita Samal and Dr Swati Verma were the event coordinators.

16 Blood Donation Camp Organized on World AIDS Day

On November 27, 2024, the Department of Metallurgical Engineering, School of Engineering, led by Mr. Hrishikesh Shastri, Scientific Officer, and B.Tech students, organized a Blood Donation Camp. This event, held in association with JSP Foundation, NSS-OPJU, and AICTE's activity point program, took place at the Health Centre of O.P. Jindal University on the occasion of World AIDS Day as part of their University Social Responsibility (USR) activities.



17

Session On Innovative Strategies of Investing in Stock Market



The School of Management, in partnership with the Institution Innovation Council, organized a talk on *Innovative Strategies of Investing in the Stock Market* on November 29, 2024. Dr. Alka Pandey, Assistant Professor from the Department of Commerce at GGV Bilaspur, delivered the insightful session.

Placement

Placement Drives conducted at OPJU





B.Tech Mech & Civil 2025









Students Placed through Campus Drives





Research and Publication



Dr. Saroj Kumar from the Department of Mechanical Engineering, OPJU, has published a research paper titled **Comparative study of model variations: English-Nepali language pair**, in IEEE Xplore.



DOI: 10.1109/OTCON60325.2024.10687932



Dr. Anurag Vijaywargiya and **Dr. Mahesh Bhiwapurkar** from the department of Mechanical Engineering, school of engineering published a book chapter titled **Determining safe limit for lifting task parameters in asymmetric posture during manual lifting** in the book "Challenges and Opportunities in Industrial Engineering: A Progressive Research Outlook", in CRE Press, Taylor and Francis Group, (2024), eBook ISBN: 9781032713229







Dr. M. Kalyan Phani from the Department of Metallurgical Engineering successfully granted a design patent titled *Mechanical and Electrical Equipment Compartment Based Trolley in Coke Dry Quenching Plant* (Patent No.426482-001). Additionally, he published a book chapter titled *Present and the Future of Mechanically alloyed materials*, in the book Mechanically alloyed Novel Materials, Springer, Singapore pp. 459-469 (2024).





Faculty Members from the Department of Computer Science & Engineering published a book chapters in the book *Computing, Communication and Intelligence* (CRC Press) having Scopus Indexing with eBook ISBN 9781003581215.





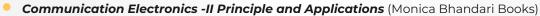


- Dr. Rakesh Nayak & Dr. Umashankar Ghugar on An Investigation of the Applicability of Machine Learning Methods to the Forecasting of Cardiovascular Disease
- Dr. Umashankar Ghugar & Prof. Jitendra Kumar Gardi on Fingers Identification Architecture for AIR CANVAS A Case Study



Dr. Dipti Shukla, from the School of Science published two books









Dr. R. S. Singh from the School of Science, published a research paper titled *Solution-processable PEDOT: PSS/WS2 nanocomposite electrodes for high-performance supercapacitors* in a high impact factor journal: Journal of Energy Storage (Impact Factor = 8.9)





Dr. Trinath Talapaneni and **Dr. Vatsala Chaturvedi** from the Department of Metallurgical Engineering published a book chapter titled **Consolidation of Mechanically Alloyed Powders** in the book Mechanically Alloyed Novel Materials. Advanced Structured Materials, vol 220. Springer, Singapore pp.111-169 (2024).

doi.org/10.1007/978-981-97-6504-1 6







Dr. Mahasakti Mahamaya from the Department of Civil Engineering published a research paper titled **Development and Characterization of Alkali-Activated Controlled Low Strength Material Using Mining Waste** in the esteemed journal Construction and Building Materials (November 2024).



doi.org/10.1016/j.conbuildmat.2024.138928



Dr. Amit Jain from the Department of Computer Science and Engineering, SoE granted a patent *A System and Method for Privacy-Preserving Data Mining and Cryptography on Health Data* (Application No. 554615).





Dr. Bhupesh Kumar Dewangan from the Department of Computer Science and Engineering, SoE participated in the conference and presented two papers titled *Information Encryption Technique Based on DNA Cryptography and RSA Asymmetric Key Exchange Algorithm* & *Application of Convolutional Neural Networks Method in Early Age Disease Detection of Paddy Crop* at the Springer MP-TEAS 2024 International Conference on Modern Practices and Trends in Expert Applications & Security from November 22 to 24, 2024.





Dr. R. N. Shukla from the Department of Computer Science and Engineering, SoE presented a research paper titled *IoT-Driven Sustainable Water Conservation and Recycling Model* at the National Conference on Innovative Strategies for Sustainable Water Resources Management and Environmental Protection in Civil Engineering" organized by Lakhmi Chand Institute of Technology, Bilaspur during November 12 to 13, 2024.





Dr. Anurag Sharma from the Department of Civil Engineering, SoE delivered an expert talk in a "National Conference on Innovative Strategies for Sustainable Water Resources Management and Environmental Protection in Civil Engineering" organized by Lakhmi Chand Institute of Technology, Bilaspur during November 12 to 13, 2024.



Achievements



Dr. Himanshu Vaishnaw and **Dr. Saurabh Gupta** from the School of Management has completed the Two Days Residential Faculty Development Program on *Case Writing*, organized by GITAM School of Business at GITAM Deemed to be University, Visakhapatnam on November 8 & 9, 2024.





Dr. Saroj Kumar from the Department of Mechanical Engineering, School of Engineering participated in and completed the One-Week Faculty Development Program on *Robotics and Industrial Automation* organized by the Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology (A), Hyderabad during November 4-9, 2024.





Dr. Jitesh Singh from Department of Mechanical Engineering, School of Engineering participated in One-Week Faculty Development Program on **Computer Aided Design & Artificial Intelligence** organized by the Department of Mechanical Engineering, National Institute of Technical Teachers Training and Research, Chandigarh during November 18 - 22, 2024.





Dr. Kavita Patel from the Department of Chemistry, School of Science attended a one-day FDP on **Management and Leadership Skill for Modern Educator** organized by Upto Skills on November 9, 2024.



New Addition to OPJU Family







Editorial Team

Chief Editor



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