

# OPJU NEWSLETTER

### **OP Jindal University, Raigarh**



## February 2024 • Volume-4 • Issue-2

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#### (A) Events and Activities

On the onset of season of bloom and renewal, OPJU celebrated the festival of *Basant Panchami*, and offered the prayer to goddess Saraswati, the symbol of knowledge and wisdom on 14 February 2024 in the library.



- Among 3500 B-Schools and 20 IIMs in India, OPJU secured 1st position among various categories in State and Central zone. Kudos to the initiatives of Dr. M.
  K. Phani, Dr. J. P. Rath, Dr. Deepak Singh in this regard. OPJU secured following ranks in different categories of *IIRF B-Schools Ranking 2024*.
  - gard. OPJU secured anking 2024.Zone Rank: 1 (1) - (1)
  - Top Private B-Schools for Research, AIR: 43, State and Zone Rank: 1
  - Best B-Schools Private (Overall), AIR: 38, State and Zone Rank: 1
  - School of Eminence for Employability , AIR: 48, State and Zone Rank: 1
  - Top Private B-Schools Under University Program, AIR: 26, State and Zone Rank: 1

**Mr. Kimmo Siira,** Counsellor Trade and Investments at the Ministry for Foreign Affairs of Finland, and **Mr. Chander Dutta**, Managing Director of Elematic India Pvt Ltd visited OPJU on 15 Feb, 2024. The purpose of the visit was towards the co-creation of values through bi-lateral agreements and engagement plans through discussions with the Vice-Chancellor, Registrar, Dean, and the Leadership team of OPJU. Mr. Siira and Mr. Dutta explored the areas for collaboration between OPJU and the Finland base Universities in summer- and winter-schools. It was emphasized for the Civil Engg. Dept. to collaborate with Elematic India Private Ltd. in the specialization area of Precast Technology.



- OP Jindal University was recognized as a Remote center of NITTTR, Chandigarh to facilitate training programs for teachers and professionals in the field of technical education. The first initiative in this direction was an STTP on *Big Data Analytics for Smart Grid* by **Dr Sushree Diptimayee Swain**, Dept. of Electrical Enggineering, SoE.
- 5 HR Dept. of OPJU initiated *Own Your Bicycle Scheme* to promote the healthy and sustainable lifestyle among the employees.
- **5** School of Management organized a workshop on *Tally Prime 4.0 for the Working Professionals* of Executive MBA students on 22 February 2024. Dr. Gopal K. Rathore was the resource person.





School of Science in collaboration with OPJU Innovation Centre oragnized *Ignite with Innovation* on 16 February 2024.



<sup>8</sup> Dept. of Mechanical Engg., SoE in association with SAEINDIA Collegiate Club of OPJU, organised an alumni talk on *Career Navigation Through Innovation* by **Mr. Yasharth Mishra** on 19 January, 2024.

9 School of Science organized a Poster Presentation Competition on *Science Behind Sustainable Research* on the occasion of National Science Day on 28 February 2024.



- 10 An Educational Exposure tour for 140 students from Science , Commerce and Arts streams of St. Joseph Higher Secondary School, Jairamnagar. A total number of 140 students along with 15 faculties visited OPJU.
- Dept. of Mechanical Engg. of SoE organized industrial visit at DCPP 4x135 MW for 6th Sem students to get exposure to Coal Handling Plant, Turbine-Generator Unit, Control Room, DM Plant, Ash Handling Plant.



- **Career Development Center (CDC)** and **Internal Complaints Committee (ICC)** of OPJU conducted a workshop on *SELF LOVE Fiesta* in association with AGUA on 8 February 2024.
- 3 School of Science in association with UHV Cell organized a 30 Hrs Value-Added Course on Universal Human Values from 5-28 February 2024 for all students fullfilling the norms of UGC and NEP 2020.



14 Dept. of Mechanical Engineering, SoE, organized a demonstration of the 15 MW Turbine-Generator Setup on 8 February 2024 for B.Tech 6th and 8th semesters students.



SoS celebrated National Science Day with the theme *Indigenous Technologies for Viksit Bharat*. The inspirational speech of **Dr. R D Patidar**, VC-OPJU set the ground & motivated the participants of the event. The initiative towards the Microbiologist Society of India Student Chapter for Bio-tech. Dept. created a dedicated platform. A Poster Presentation Competition on sustainable scientific practices was organized during the event. **Dr. Sanjay Singh, Dr. Taniya Sengupta Rathore, Dr. Dipti Shulka, and Dr. Kavita Patel** organized the event.



- 16 Dept. of Mathematics, SoS, conducted expert lecture on *Modeling Aspects in Earth Science* by Prof. Sanjeev Anand Sahu, Dept. of Mathematics and Computing, IIT, Dhanbad on 23 February 2024.
- 17 Dept. of Mech Engg., SoE conducted a visit to the OPJU Innovation Centre for first-year B. Tech students of Mechanical and Civil on 26 February 2024. The students got insights of the centre's facilities for innovation.



- **Dr. Mithilesh Sahu**, Dept. of Mech. Engg., delivered expert talks on *Thermal Engineering* and *Power Plant* on 1 and 2 February 2024 for the PG Diploma students of Jindal Institute of Power Technology, Tamnar.
- Dr. Shesadev Nayak, Director, CDC conducted one-day training session on:
  - *Mission, Vision, Code of Conduct, Core Values and POSH (Prevention of Sexual Harassment)* for the excutives of JSP at Jindal Center, Raigarh on 16 February 2024.
  - Coaching and Mentoring at Jindal Center, Raigarh on 20 February 2024.



20 Dept. of Electrical Engg., SoE conducted a hands-on training from 12 -16 February 2024 for ITI Students of Gharghoda on *Basic Electronics, Soldering, Electrical Machines & Instruments, Basic Electrical Engineering, High Voltage Engineering,* and providing Industrial Visit to SSD & MRSS4. The program was coordinated by **Prof. Rakesh Patidar.** 



21 Dept. of Electrical Engg., SoE conducted a 3-days Industrial Visit to DCPP and 3-days to JPL Tamnar from 12 to 19 February 2024. The visit was coordinated by **Prof. Rupesh Patel** and **Prof. Shashikant Kaushaley**.



22 Dept. of Mechanical Engineering, SoE conducted a visit to the neighbouring villages for the 4th semester students as a part of their AICTE Activity Point Programme on 8 February 2024. The focus was on *Child Education, Clean Village, and Cyber Crime*.



Dept. of Mechanical Engg., SoE conducted industrial visit for pre-final and final year students of B.Tech and Diploma respectively on 6 and 7 of February 2024, organised by **Dr Mukesh Desai**.

24 NSS and Center for Social Empowerment, OPJU in association with JSP Foundation conducted the following activities under the supervision of **Dr. Sanjay Singh** -

- Girish C Mishra, Dr Surendra Dwivedi and Prof. Sanjana Dewangan visited NETRAHEEN BAL VIDYA MANDIR, AMLIDIH, discussed various issues, donated a 20-litre water camper on 21 February 2024; and distributed basic grocery items by Dr. Bhupesh Dewangan, Mrs Sanjana Dewangan, Dr G.C. Mishra, Prof. Manas Ranjan Mishra and Dr Surendra Dwivedi on 26 February 2024.
- Workshop on *Women's Health & Hygeine* for the girls of Govt High School and Govt. Middle School, Samaruma on 1 February 2024. **Prof. Princy Diwan** and the volunteers distributed sanitary napkins.
- A Training Programme on *DIGITAL SKILLS DEVELOPMENT* for the students of Govt. High School, Govt Middle School, Samaruma and Govt. Pre-Middle School, Tumidih by **Prof. Princy Diwan** and the volunteers on 1 and 15 February 2024.
- Workshop on *Women's Health & Hygeine* and sports activities at Govt. Pre-Middle School, Tumidih, Raigarh on 15 February 2024. The volunteers under guidance of **Prof. Princy Diwan** and **Ms. Astha**.
- A Blood Donation Drive in association with Jindal-Fortis Hospital at Health Centre, OPJU under the guidance of Dr. R. D. Patidar (VC-OPJU), Prof. Anurag Vijayawargiya (Registrar, OPJU), Dr. S. Das, Dr. G. C. Mishra, Dr. Pati, Mr. Anjanee Singh, Mr. Hrishikesh Shastri, Mr. B.D. Malakar, Ms. Sanidhea, Ms. Shraddha Sahu, Mr. Chirag, Dr. Surendra Dwivedi, Mr. Siddhant Chaturvedi, Mr. Pranab, Mr. Krishna and all volunteers on 2 February 2024.
- A *Health Check-up* and *Blood Group Identification* Programme at Govt. Higher Secondary School, Chharratangar in association with OPJH, Tamnar by **Dr. Harish Gautam, Dr. Priya Rai** and **Dr. Kavita Patel** on 22 February 2024.





25 Dept. of Metallurgical Engg., SoE celebrated National Science Day on 28 February 2024 with a series of events highlighting the role of science in metallurgical advancements.



- **26 Dr. Deepak Patel** and **Mr Hrishikesh Shastri**, Scientific Officer of the Metallurgical Engg. Dept. along with the B Tech 6th and 8th semester students visited village Ektaal as an outreach and NSS activity to observe the Investment Casting of Dhokra Craft using bell metal by the Jhara Tribe on 22 February, 2024
- 27 A hands-on training on *Learning Management System (LMS)* was organized by CSE Dept. for all the faculty members of OPJU. The session was conducted by **Prof. Umashankar Pandey.**



- **28** Dept. of CSE Felicitated SWAYM, NPTEL MOOCS-Qualified Students of 2023.
- 29 Dept. of Electrical Engg., SoE, in association with CoE in Power Electronics and Power Systems organized expert talk series on *Application of AI & Optimization in Power System* on 23 February 2024.
- **30** The Literary **Club-UPASHANA** and School of Science organized a poem writing and Reciting Competition on *Your Ambition* on 8 February 2024 in OPJU.
- **31** Society of Metallurgical Engineers (SME) and Department of Metallurgy, OPJU conducted a session on Chemistry, Materials Science, and Engineering on 29 February 2024. The participants were evaluated through *Technical Quiz* and *Technical Presentations*.

#### 32 OPJU Sports Department organized -

- Open Chess and Carrom Championship.
- JPL Cricket Tournament.
- Open Pool Game Competition-24 from 20 February 2024.
- Inter Branch Volleyball Tournament (Boys and Girls) 26 February 2024.







## OPJU Newsletter

#### **33** CDC conducted campus drive preparatory sessions for:

- IndusInd Bank, for MBA-2024 batch students on 7 and 8 February 2024 by Mr. Vishnu Tamrakar and Mr. Rajneesh Tiwari.
- BayOne Solutions, B.Tech CSE students on 20 February 2024 by Mr. Rajneesh Tiwari.
- IndiaMart, for MBA Marketing students on 21 February 2024 by Mr. Rajneesh Tiwari.
- Empaxis India, for MBA Finance on 23 February 2024 by Dr. Shesadev Nayak.
- Intellipaat, for UG/PG on 29 February by Mr. Vishnu Tamrakar.



#### (B) Placement



Ronak Raj Sahoo, Lokesh Singh, Shivanshu Santosh Mishra, Abhishek Kumar Giri, Shishir Santosh
 Mishra, Sumant Kumar Yadav, Aryan Kumar, Mayur Rajkumar Bisen, Ayush Singh, Ankesh Kumar Yadav,
 A. Akhil, Sankalp Barua, Sandeep Sahu, Aamir Khan, Sandeep Choudhary and Abhinav Kumar Singh of
 Diploma Mechanical Engineering got selected at *Subros Limited* as Diploma Apprentice Trainees (DATs) for
 their Karsanpura Plant, Ahmedabad, Gujrat.



Students selected through campus Drives



#### (C) Research & Publication

Ajay Panday, Ph.D. Scholar of OPJU, Electrical Engg., SoE presented a paper, A Robust Single Ended Disturbance Detection Scheme For Superconducting Fault Current Limiter Integrated UPFC Compensated Line on behalf of the University at the Chhattisgarh Young Scientist Award (CYSC) held at NIT Raipur on 26 & 27 February 2024.





- 2 Dr. Mithilesh Kumar Sahu, Mechanical Engg., SoE published a research paper, Implementation of Total Productive Maintenance to Improve Productivity of Rolling Mill in the Indian Journal of Engineering and Materials Sciences (IJEMS) (SCIE-indexed, Q3). doi: or.niscpr.res.in/index.php/IJEMS/article/view/3158
- Dr. Saket Jeswani, SoM published a paper, The Underlying Motivational Process Behind Faculty Members' Voice Behavior : An Experimental Design in Prabhandan - Indian Journal of Management. (SCOPUS-indexed)

doi: www.indianjournalofmanagement.com/index.php/pijom/article/view/173327

Prof. Manas Ranjan Mishra, SoS presented a research paper, The Impact of Higher Order Chemical Reaction on a Moving Plate in a Porous Medium and MHD Forced Convection of Jeffrey Nanofluid on 3-Days International Conference on Complex Analysis and Computational Fluid Dynamics 2024 during 16 to 18 February 2024 at KIIT University Bhubaneswar.

Dr. G Madhusudhan Rao, SoE published research papers -

- Enhancing the Performance of Sustainable Energy Management of Buildings in Smart Cities in Indonesian Journal of Electrical Engineering and Computer Science, Vol. 33, No. 3, March 2024, pp. 1315~1326. doi: 10.11591/ijeecs.v33.i3.pp1315-1326.
- Design of an Interline Power Flow Controller Using Advanced Simulation Tools in the proceedings of the 6th International Conference on Communications & Cyber Physical Engineering as a Lecture Notes in Electrical Engineering, doi: https://doi.org/10.1007/978-981-99-7137-4\_22.

6 Prof. Neeraj Kumar Verma, Metallurgical Engg., SoE published research papers -

- Taguchi optimized wear and self-lubricating properties of Alloy composite reinforced with hybrid B4C-MoS2 particulates in the Journal of Materials Research and Technology (JMRT),
- Electrochemical Corrosion Behavior of Ancient Iron and Mild Steel in a 3.5% NaCl Solution at the International Corrosion Prevention Conference (CORSYM 2024) organized by MS University on 18 February 2024.
- Dr. Saroj Kumar, Mechanical Engg., published a research paper, Implementation of Trajectory *Control Algorithm in a Dynamic Environment* in IEEE Xplore.













#### (D) Achievement

Dr. S. Das (Steel Chair Professor & Head), Metallurgical Engg., SoE was invited as a jury member in the panel for Metallurgy, Material Science & Mining Engg. at *19th Chhattisgarh Young Scientist Award (CYSC)* organized by Chhattisgarh Council of Science and Technology, NIT Raipur on 26 & 27 February 2024.



- **Dr. Jitesh Singh** of Mechanical Engg. Dept., SoE was awarded the Ph.D degree from the *Dept. of Production Engineering*, Veer Surendra Sai Technical University (VSSUT), Burla, Odisha.
- **3** Taniya Sengupta Rathore was awarded as a Reviewer in *Advances in Science, Technology and Engineering System Journal(ASTESJ)* ISSN- 2415-6698 for BAM: Biotechnology & Applied Microbiology; BMB: Biochemistry & Molecular Biology; ENS: Environmental Sciences, subject codes.
  - She also participated in the 2-Weeks FDP on *Advancement in Biotechnology and Chemical Engineering* held on 2 to 12 February 2024 organized by Vel Tech Hi Tech Dr. Rangarajan Dr. Shakunthala Engineering College, Chennai Tamil Nadu.
- Dept. of Biotechnology, SoS students, Mahak Acharya, Shruti Kumari, Satish Gupta and Khushi Mishra secured 3rd place in *PPT Presentation* and Kasish Naaz, M Akanksha, Shally Prajapat and Khushi Singh secured 3rd place in *Poster Presentation* in National Conference on *Microbial Bioprospecting: Exploration and Conservation* oragnized by Dept. of Biotechnology at Govt. V. Y. T Autonomous College in Durg, Chhattisgarh, in collaboration with the Microbiologist Society of India on 5 and 6 February 2024 under the guidance of **Dr. Taniya Sengupta Rathore** and **Mr. Hemant Kumar.**



- **5 Dr. Ankur Rastogi** & **Dr. Deepak Patel**, SoS participated in an online One-Week FDP on *Recent Research Advances in Sustainable Development & Capacity Building* from 1 to 7 February 2024.
- **6 Dr. Girish Chandra Mishra, Dr. Dipti Shukla, Dr. Swati Verma & Dr. Deepak Patel** of School of Science delivered invited lectures in FDP organized by Govt. K.G. Arts & Science College, Raigarh from 22 to 29 February 2024.
- **7 Dr. Dharmendra Singh Saini** of Mechanical Engg. Dept., SoE participated in 1-Week workshop on *Recent Trends in the Development of Alternative Fuels*organized by Sustainable Energy & Environment Laboratory (SEEL), Energy Centre MNIT Bhopal from 19 to 23 February 2024.
- **Prof. Neeraj Kumar Verma** of Dept. of Metallurgical Engineering was recommended as a reviewer for *ACS Applied Nano Materials* an SCI-indexed journal and publisher of the American Chemical Society, N.W. Washington, DC.



**Dr. Umesh Vishwakarma** and **Dr. Jitesh Singh** of Mechanical Engg Dept., SoE participated in one week AICTE-recognized FDP on *Green Manufacturing* organized by Ajay Kumar Garg Engineering College (AKGEC), Ghaziabad from 29 January to 2 February 2024.

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- **10 Prof. Pushpanjali Shadangi, Dr. Ankireddy Narendra** and **Prof. Rakesh Patidar** of Electrical Engineering Dept., SoE participated in FDP on *Big Data Analytics in Smart Grid*organized at the remote center of O P Jindal University organized by NITTTR Chandigarh from 12 to 16 February 2024.
- Following OPJU Faculty and Staff members participated and secured Runner-up position in *Inter Department Badminton Tournament* organized by Jindal Officer Club, JSP, Raigarh.
  - Mr. Abhishek Thakur & Ms. Sanidhiea Pahwa in Mixed Doubles Runner-up
  - Dr. Prasenjit Biswas & Prof. Rakesh Patidar in Men's Doubles Second Runner-up
  - Ms. Sanidhiea Pahwa in Women's Single Runner-up



<sup>12</sup> OPJU students team: E-Krishak (Leader: **Soumya Mittal**, CSE) cleared round 2 of the Yukti Innovation Challenge (MoEs: IIC event) held at IIT, BHU and qualified for the Finale (Total 30 teams) to secure a seed funding upto Rs 10 Lakhs.

**Prof. Pushpanjali Shadangi** of Electrical Engineering Dept, SoE participated in FDP on *Operation and Control of Modern Power System* organized by Dept. of Electrical Engineering, RIT Rajaramnagar in association with RIT-IEEE students branch and RIT CTL From 5 to 10 February 2024.



Team OPJU won the Title of *Jindal Premier League Cricket Tournament-24* with **Mr. Abhishek Tiwari** as the man of the match.



**Dr Mithislesh Sahu** of Mechanical Engg. Dept., SoE received a Reviewer Recognition certificate from Bentham Science Publishers.

**16 Dr. Saroj Kumar** of Mechanical Engg. Dept., SoE participated in an online webinar session on *Accelerating 5G towards 6G communication for a new decade using MATLAB and Simulink* organized by ARK Infosolutions Pvt. Ltd. on 01st February 2024.



#### (E) Emerging Techniques and Technologies

#### **Alloy Mixing and Casting Machine**

(Source: Dr. Vatsala Chaturvedi, Dr. Deepak Patel; Patent No: 387094-001; Issued By: The Patent Office, GoI)

The equipment, *Alloy Mixing and Casting Machine* has been developed and designed to produce a controlled, homogeneous mixture of metals and alloys. When mechanical vibration is applied during melting, the melt is intensely sheared, causing dendritic fragmentation and a uniform distribution of secondary phases in the alloy. The argon gas inlet maintains an inert atmosphere, reducing the risk of oxidation, and the bottom-pouring furnace and stopper rod ensure precise control over the flow of the molten metal. The metallurgical industry has many potential uses for this innovative apparatus, including the manufacturing of various non-ferrous alloys and composite materials. The use of this equipment may decrease production costs and enhance the efficiency of the process. In general, this apparatus offers a novel and effective method for the casting and solidification of metals.

#### **New Addition to OPJU-Talent Pool**



Ms. Shradha Gupta Asst. Professor, School of Management, B.Com., M.Com., Ph.D (Pursuing)

#### **Editorial Team**

#### **Chief Editor**



**Dr. Biranchi Prasad Panda** Professor, School of Management, OP Jindal University, Raigarh

#### Members



**Dr. Arindam Patra** Assistant Professor, Dept of Humanities, OP Jindal University, Raigarh



**Dr. Ashish Sharma** Professor, Dept of Computer Science & Engg., OP Jindal University, Raigarh



#### Prof. Namrata Ojha

Assistant Professor, School of Management, OP Jindal University, Raigarh

#### Designer



**Mr. Praveen Dewangan** Assistant Manager, Marketing & Outreach Dept, OP Jindal University, Raigarh



**Dr. Vatsala Chaturvedi** Assistant Professor (Sr. Grade), Dept of MME, OP Jindal University, Raigarh



**Dr. Ankireddy Narendra** Assistant Professor, Dept of Electrical Engg., OP Jindal University, Raigarh



#### **Upcoming Events**



## **OP Jindal University**

(Recognized by UGC and Approved by AICTE) Knowledge Park, Punjipathra, Raigarh, Chhattisgarh Ph.: 07767 254000

<u>Webpage</u>

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