



OPJU

UNIVERSITY OF STEEL TECHNOLOGY
AND MANAGEMENT



OPJU NEWSLETTER

OP Jindal University, Raigarh

October 2022

CONVOCATION
Special



About the Convocation

OP Jindal University declares its 2nd Convocation in the august presence of distinguished dignitaries, guests, and media teams. The convocation report shows the progress of the university in the academic year 2021-22. The achievements and accomplishments of its graduating students are acknowledged with the degrees from UG and PG programs of Science, Engineering, and Business Administration. The university is awarding 31 gold medals, 28 silver medals, and 27 bronze medals to the meritorious degree holders. OPJU appreciates the hard and sincere efforts of the graduating students, their mentoring faculty, and staff.

Procession



Address



Lamp Lighting



Invocation



Falication





- Soumit Kumar Mondal
● (Gold Medal)
- Debaprakash Barik
● (Silver Medal)
- Aditi Thakur
● (Bronze Medal)
- Ajay Sharma
- Aryan Singh
- Moumita Mondal



डा ललित प्रमखा घेटिया, एडीएम संत वेली जोशी, नारायण अयुक्त संत वेली जोशी, एमडी जेएसएल विमले डा, एकजीवुटि व डायरेक्टर जेएसपीएल समन्वयी वेली जोशी, रजिस्ट्रार सत्यवत वस, डेड एचक्टर सिडी रोड्स संत वडी संख्या में छात्र-छात्रा, उनके परिवार व बुनितसिडी के छात्रा उपसिडी के

738 छात्रों को मिली उपाधि

अपी जितल के डिलीय दीशत समारोह में कुल 738 संतल को उपाधि प्रदल की गेली। जियसी 31 संघों एचएल 28 खल एचक और 27 कांय प्रदल मिले व।



Words of Wisdom



“It is our aim to educate and train a skilled workforce who makes the products and services of industry as per international standards.”

Syt. O. P. Jindal

August 7, 1930 – March 31, 2005
Founder and Visionary
OP Jindal Group



“Pursuit of knowledge through first-hand experience is the cornerstone of the OP Jindal University. We believe that every student is unique, and their potential can be unlocked through proper guidance, encouragement, and quality teaching. OPJU is an attempt to make world-class education accessible to deserving students both in metros and in smaller towns of India through its modern infrastructure, multi-disciplinary programs and enriching campus life. The university will create the best leaders not only for India but also for the world.”

Mr. Naveen Jindal

Chairman, Jindal Steel and Power Ltd.

GOVERNOR,

Chhattisgarh



Convocation is a milestone of a students' accomplishment. It is appreciated to see the efforts taken by OPJU to provide excellent exposure and develop innovative insights in all disciplines of academics.

Students need to pursue their efforts as a lifelong learning with strong

Message by the

CHANCELLOR



I congratulate all graduates of OP Jindal University for the accomplishment of their degrees and outstanding performance as Gold, Silver and Bronze medallists of all disciplines.

Convocation of a university is an important milestone in the career journey of its students. I am confident that OPJU-graduates are able to shoulder the responsibilities of a true Indian citizen. I believe this batch of graduates has successfully transformed itself to fulfil the vision of OPJU. Several times, the batch came up with glorious national level competitions, both in physical and virtual mode, specially experienced the challenges of COVID-19, and seized opportunities from the problems, thereby clearing

OPJU, as a young uni-

Message by the

VICE CHANCELLOR



I wish the 2nd Convocation of OPJU to be the most memorable day for all graduates of this batch. The literary meaning of convocation appears too narrow by looking at the ceremonial observation of the event and the importance linked to it in the present day. It is a new beginning for the graduates who proceed by crossing the milestones of intellectual and emotional growth.

We at OPJU emphasise on consistent quality of education, research in an eco-system for holistic development of young mind and body of every student. The graduate attributes for all possible professions are the vision of our founder, O P Jindal, followed by the patron, the chairman of JSP, Shri Naveen Jindal. The guidance of our chancellor, Smt. Naveen Jindal, is the guiding light for the graduates.

MD, JSP Group



OPJU, as a young university has carved a niche in Chhattisgarh and in India for its education and research. The commendable accomplishment resulted with the combined effort of its staff, faculty and students. The current batch of graduates, for sure, going to demonstrate the qualities of future leaders even in the constrained environments. I proudly announce it as the most resilient batch.

I hope this convocation will further sharpen the minds and brighten the careers of the graduates with the words of wisdom of invited luminaries.

Chairman, CGPURC



This momentous occasion of success at OPJU reflects the committed efforts of its students, faculty and administrative staff in achieving the experiential learning by doing in a multi-disciplinary way.

I sincerely hope that our graduates will truly become the growth engines of India as they have proved themselves resilient during pandemic time with a persona of deriving opportunities from problems surrounding their life and career at OPJU.

ED, JSP Raigarh



While education has become a human right with immense power, Education for Life and Education for Living. Our focus has shifted to the region through quality education with a state-of-the-art facility in a manner to develop young professionals, future leaders, and entrepreneurs with a true spirit.

OPJU strives to review and redesign its developmental strategy to meet the market. As the solutions to the current challenges do not exist, we need to adopt digital transformations to remain competitive. The efforts are directed, towards the industry linkages and learning.

(A) Events & Activities at OP Jindal University, Raigarh (C.G.)

- 1 Industrial visit by the Team-CDC in the region of Raipur and Bhilai on 13th & 14th October 2022.** Interaction with HR Heads, Plant Heads, and other senior Managers to understand the voice of industry related to the hiring process for GETs/MTs. Also the team shared the expertise of OPJU towards corporate training, consultancy and newly launched EMBA program.



Vandana Global, Raipur



Jayaswal Neco Industries Ltd, Raipur



Godavari Power & Ispat (Hira Group), Raipur



Steel Infra Solutions Pvt. Ltd. Bhilai



Real Ispat & Power Ltd, Raipur



Jain Software, Raipur



Bacs Energy, Bhilai

2 Conducting Value-Added Course on Welding

Welding is an essential component of many industries such as the automotive industry, the construction industry, the aviation industry, and many more. To enhance the welding skills of students, Department of Mechanical Engineering in association with the Center of Excellence in Manufacturing and Automation organised a 6 weeks value added course on “Welding Technology” for Diploma 3rd semester students. The course was conducted during 19th September 2022 – 28th October 2022. Dr. Umesh Vishwakarma, Mr. Prashant Padhi, and Mr. Narendra Deshmukh conducted the course.



3 Conducting Guest Lecture

Department of Metallurgical Engg. In association with the Society of Metallurgical Engineers (ASM) organized a technical talk on Effect of Ultrasonic Shot Peening on the Low Cycle Fatigue Behaviour of the Alloy Ti-6Al-4V by Dr. Saneev Kumar Rana, Dy. Mgr. (QA), NSPL on 29 October 2022.



4 Installation of advanced machineries in Lab

The installation of two highly sophisticated characterization tools has been done in department of Metallurgical Engineering under Center of Excellence in Steel Technology (COEST) in G-08.

Scanning Electron Microscope (ZEISS EVO 18- Germany Made):

The equipment is having resolution of 3 nm (2 nm) @ 30 kV SE and W (LaB6) and magnification up to 1,000,000. The SEM is usually used to generate high-resolution images of shapes of objects and to show spatial variations in chemical compositions: 1) acquiring elemental maps or spot chemical analysis using EDS, 2) discrimination of phases based on mean atomic number (commonly related to relative density) using BSE. The SEM is also widely used to identify phases based on qualitative chemical analysis and/or crystalline structure. Precise measurement of very small features and objects down to 50 nm in size is also accomplished using the SEM. Back scattered electron images (BSE) can be used for rapid discrimination of phases in multiphase samples.

X-Ray Diffraction Unit (Rigaku SmartLab- Japan Made):

Rigaku SmartLab is an Automatic High Resolution Multipurpose PC Controlled X-Ray Diffractometer System with Vertical Theta-Theta Goniometer for Horizontal Sample mount with Solid State 1-D Detector, Consisting of: X-RAY GENERATOR: Maximum Rated Output : 3 KW continuous rated maximum output power. Operation: Computer controlled. X-Ray Tube Shield: Electro Magnetic Shutter interlocked with Radiation Enclosure. Safety Device: Abnormal cooling water, flow rate, water Pressure, abnormal XG load (over load, line current, abnormal low and high voltage, emergency stop switch, leak breaker). X-Ray is completely shut off if any fail safe devices are tripped or fail to operate. X-Ray Tube: Ceramic Cu-Target with Long Fine Focus & Ni-² Filter 2.2kW. GONIOMETER: The compact Vertical Goniometer mount the sample in a Horizontal and Stationary position. θ - 2θ is ideal configuration when dealing with large or irregular samples, loose powder and liquid sample. The Goniometer uses highly sensitive pulse motor drive with minimum step 0.0001° (d/s). The goniometer provides both symmetric and asymmetric illumination.

XRD is a highly versatile technique that provides chemical information for elemental analysis as well as for phase analysis. Besides chemical characterization, XRD is extremely useful for stress measurements as well as for texture analysis. Samples to be analyzed using XRD must be crystalline however the technique can provide the degree of crystallinity in polymers. XRD has traditionally been used for bulk samples analysis. But with the advent of new optical systems, thin film analysis can also be carried out. The technique uses Bragg's law of diffraction.

(B) Placement News

1 Selection @UNO Minda Industries

Minda Industries conducted a campus drive for B.Tech - Metallurgy students 2023 passing out batch where 5 students, namely, **Mr. Sahil Sahare, Chhailesh Gade, Umesh Prabhu Katre, Swapnil Mohan and Vedant Rajesh Acharya** got placed as GET with a package of 7.25 LPA. UNO MINDA is a conglomerate engaged in manufacturing, development and sales of diverse auto components for Global & Domestic Automotive Market.



2 Jai Balaji Jyoti Steels Limited

Jai Balaji Steels conducted a pool campus drive for the B.Tech/M.Tech Mech & EEE-2022 passed out batch, where OPJU students were invited to participate. Jai Balaji Jyoti Steels Limited located in Rourkela, Orissa, their products are DRI, TMT Bars, Pig Iron.



3 JSW Campus Drive

JSW Conducted its campus drive for the B.Tech_Meta/Mech/EEE 2022/2021/2020 JSW Steel Limited is an Indian multinational steel producer based in Mumbai and is a flagship company of the JSW Group. After the merger of ISPAT Steel and Jindal Vijayanagar Steel Limited, JSW Steel became India's second largest private sector steel company.



4 Asian Paints Campus Drive

Asian Paints Ltd is an Indian multinational paint company, headquarter is at Mumbai (India) is conducting campus hiring for OPJU MBA 2023 batch and offering the package above 7 LPA, where online assessment has been conducted. The company is engaged in the business of manufacturing, selling and distribution of paints, coatings, products related to home décor, bath fittings and providing of related services.



5 Mr. Vishal Pathade of Metallurgical Engineering got selected in Subhodh Technologists with a package of 3.65 LPA.



6 Mr. Surisetty Bhaskara Rao and Ms. Isha Bias of Metallurgical Engineering got selected in JSL with a package of 7 LPA.

(C) Research & Publications

- 1 **Dr. G. C. Mishra**, (Professor, Department of Physics) published a research paper entitled "Synthesis characterization and Luminescence Properties of $B_2BiMg_2V_3O_{12}$ based phosphors with rare earth activated Dy^{3+} phosphor for solid-state lighting" is published in a Scopus indexed journal. DOI: 10.1088/1757-899X/1258/1/012016



- 2 **Dr. Prasenjit Biswas**, Assistant Professor in the department of Metallurgical Engineering has published a research article entitled "Electromagnetic Twin-Roll Casting of Aluminium Alloy Sheets: An Overview" in SCI Indexed Journal 'Journal of The Minerals, Metals & Materials Society (TMS)' (Springer).



- 3 **Dr. Vinod Kumar**, Assistant Professor, Dept of CSE, published an article entitled "A SMART HEALTHCARE SYSTEM USING BODY SENSOR NETWORKS(BSN) AND INTERNET OF MEDICAL THINGS (IOMT) in a Scopus Indexed Journal with AES on 2 October 2022.



- 4 **Dr. Bhupesh Kr Dewangan**, Associate Professor, Dept of CSE published a Springer book chapter entitled "Emerging Technologies in Data Mining and Information Security" on 10 October 2022.



- 5 **Dr. Rakesh Nayak**, Professor & Head, Dept of CSE published an article entitled "Artificial Intelligence Techniques for Detection as Well as Diagnosis of Cancer and Prediction of Mutations" in Scopus indexed journal NeuroQuantology on 11 October 2022.



- 6 **Dr. Rakesh Nayak**, Professor & Head, Dept of CSE published a book chapter entitled "Python for Engineers and Scientists Concepts and Applications" in Routledge Taylor & Francis Group on 27 October 2022.

(D) Achievements

- 1 **Dr. R. S. Singh**, Associate Professor of Physics published a patent entitled "A METHOD OF PREPARATION OF SILVER DENDRITES USING GRAPHENE ELECTRODES",



- 2 **Dr. Dipti. Shukla**, Associate Professor of Physics has been granted a patent "A NOVEL SUSTAINABLE CULTIVATION METHOD FOR AYURVEDIC HERB LEMONGRASS" (Patent Number 2022/07836)



- 3 **Dr. Nidhi Khobragade**, Assistant Professor in the department of Metallurgical Engineering has attended online International Workshop on "Cold Spray Technology: From Laboratory to Market" Organized by The Indian Thermal Spray Association on 17th October 2022.



4 Dr. Mahesh Bhiwapurkar, Professor, Department of Mechanical Engineering attended a one week Online National Level Faculty Development Program on “Research: Vision to solve problems through different angles” organized by Applied Sciences and Humanities Department, Parul University, Limda under Department of Science & Technology, Gujarat Council of Science & Technology (Govt. of Gujarat) during 15th October, 2022 to 20th October 2022.



5 Prof. Dharmendra Singh Saini, Assistant Professor, Department of Mechanical Engineering attended a 5 days Online Faculty Development Program on “Research Publications and Intellectual Property Rights in Academics” organized by Shri Shankaracharya Institute of Professional Management & Technology, Raipur during 10th -14th October 2022.



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