

## Department of Metallurgical Engineering Quarterly Report (April to June- 2023)

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### 1. Students' Placement

- (i) **B.Tech (Metallurgical and Materials Engineering)** 8<sup>th</sup>sem students **Mr. BrujeshBoudh, Mr. S. Shiv Kumar, Mr. Rishav Mahato and Mr. Shubham Kumar** (4 Students) placed in **Flipkart**.
- (ii) **B.Tech (Metallurgical and Materials Engineering)** 8th sem students **Mr. CH Prem Sagar and Ms. Syed Ashriya Samrin** (2 Students) placed in **Inmovidu Technologies**.
- (iii) **B.Tech (Metallurgical and Materials Engineering)** 8th sem student **Mr. Atharv Rasane** (1 student) placed in **Quess Corp Ltd**.
- (iv) **B.Tech (Metallurgical and Materials Engineering)** 8th sem students **Mr. Rohit Kumar Yadav and Mr. Shubheer Kundu** (2 students) placed in **Amalgam Steel & Power Limited**.
- (v) **B.Tech (Metallurgical and Materials Engineering)** 8th sem student **Ms. Goldi Kumari** (1 Student) placed in **JSW Steel**.
- (vi) **B.Tech (Metallurgical and Materials Engineering)** 8th sem student **Mr. Mallikarjuna H.** (1 Student) placed in **BMM Ispat Ltd**.
- (vii) **Diploma (Metallurgical and Materials Engineering)** Final Year students **Mr. Rakesh Kumar and Mr. Rounak Kumar Tripathi** (2 Students) placed in **Starwire**.
- (viii) **Diploma (Metallurgical and Materials Engineering)** Final Year student **Mr. Daneshawr Chandra** (1 Student) placed in **Schenck Process**.
- (ix) **Diploma (Metallurgical and Materials Engineering)** Final Year students **Mr. Yajendar Kashyap and Mr. Adarsh Tripathi** (2 students) placed in **JSW Monnet**.
- (x) **Diploma (Metallurgical and Materials Engineering)** Final Year students **Mr. Suraj Kumar Gond, Mr. Rohit Kumar Sah, Mr. Ankit Singh, Mr. Ravi Shankar Singh, Mr. Akash Upadhayay, Mr. Praveen Kumar and Mr. Santosh Kumar Paswan** ( 7 students) placed in **TPI Composites**.
- (xi) **11 B.Tech and 12 Diploma Students placed in last months**

## 2. Publications in SCI Journals

- (i) Rupesh Kumar Verma, **Deepak Patel**, Manoj Kumar Chopkar, Wear behavior investigation of Al-B<sub>4</sub>C functionally graded composites through Taguchi's design of experiment, Journal of Engineering Research (2023) <https://doi.org/10.1016/j.jer.2023.100095>.
- (ii) **Prabhat Gautam, Anurag Gautam, Neeraj Kumar Verma**, Impact of cyano and fluorine group functionalization on the optoelectronic and photovoltaic properties of donor-acceptor- $\pi$ -acceptor benzothiadiazole derived small molecules: A DFT and TD-DFT study, Korean Journal of Materials Research 33 (6) (2023).

## 3. Lectures Organized

- (i) One-day webinar on “**Recent Advances in Iron and Steel**” was organized by the department in association with **ASM International, Eastern India Raigarh Chapter & Society of Metallurgical Engineers** on May 12, 2023. **Dr. R. D. Patidar**, Vice Chancellor, OPJU was the Chief Patron; **Dr. S. Das**, Steel Chair Professor & HoD was the Chairman-cum-Convener (Metallurgical Engg. Dept.) and **Dr. Guru Prakash** was the co-convener.
- (ii) The department has organized a technical talk on “**Influence of Water Parameters on Corrosion Behaviour of High – Carbon Pearlitic Rail Steel**” on June 30, 2023, in association with ASM International Eastern India Raigarh Chapter at OPJU. The keynote speaker was **Dr. Kirtiratan Godbole, Assistant Professor in the Dept. of Applied Mechanics, MNNIT Allahabad**.

## 4. Visitors in the Department

- (i) **Dr. Sanjeev Das** Associate Professor in the department of Metallurgical and Materials Engineering, National Institute of Technology Raipur visited department of Metallurgical Engineering on April 2, 2023.
- (ii) **Dr. Sanjeev Rana**, Nalwa Steel Limited, Raigarh visited department of Metallurgical Engineering on April 2, 2023.

(iii) **Hon'ble Shri Naveen Jindal Ji**, the Chairman of Jindal Steel and Power Group of Companies, visited OPJU campus and inaugurated the Scanning Electron Microscope and X-Ray Diffractometer under the **Centre of Excellence in Steel Technology (COEST)** on April 25, 2023.

(iv) **Mr. A. K Jha**, the Former Chairman of Coal India Ltd. and Advisor, JPL visited the Centre of Excellence in Steel Technology (Scanning Electron Microscope and X-Ray Diffractometer) and prototype of head hardened rail and other departmental laboratories on May 8, 2023.

## 5. Faculties Achievements

- (i) **Dr. M Kalyan Phani**, Associate Professor received **Best Innovation Award** for the research workon “**Microstructural and Mechanical Characterization of Brass and Bronze Alloys**” in the Stream of Mechanical Engg. in the **International Conference on Emerging Research in Science, Engineering and Management**, held during 19 & 20 May, 2023, at SRIT, Proddatur, Andhra Pradesh. Dr. Phani also received an invitation to attend the **IMAT conference 2023 and ASM Leadership Day 2023** to be held in October 2023 at Michigan, USA. He received a travel grant of 2000 \$ for attending the same.

## 6. Students Achievements

- (i) **B.Tech 8<sup>th</sup>sem student Mr. Rishav Mahato** achieves position in **top 100 achievers of UNO MINDS 3.0 Virtual Competition** organized by **UNO MINDA GROUP**.
- (ii) **B.Tech 8<sup>th</sup>sem student Mr. Saharsh Pandey** selected to pursue **M.Tech at Indian Institute of Technology (IIT), Jodhpur**.
- (iii) **M.Tech 4<sup>th</sup>sem student Mr. Siddarth Mishra** won **First Prize in E-Poster presentation in Recent Advances in Material Science and Technology in BTT 2023** organized by **IIM Jamshedpur Chapter** in association with **AcSIR, TATA Steel and NML Jamshedpur**.

## 7. Conferences Attended

- (iii) **Dr. Trinath Talapaneni, Dr. Vatsala Chaturvedi and Dr. Nidhi Khobragade** attended a 14 days **National Level FDP on Innovative Teaching Strategies and Tools in the Digital Age** in

collaboration Ministry of Education's Institution Innovation Council (IIC GGI Ludhiana) Gulzar Group of Institutes Ludhiana (Punjab) from April 10 to 23, 2023.

- (iv) **Dr. Deepankar Panda and Dr. Prasenjit Biswas** participated in an **International Symposium on Additive Manufacturing of Metallic Alloys and Composites: Academic and Industrial Perspective** organized by PDPM Indian Institute of Information Technology, Design, and Manufacturing, Jabalpur from April 11 to 13, 2023.

## 8. Knowledge Imparted

- (i) **Dr. M Kalyan Phani**, Associate Professor of Dept. of Metallurgical Engg. delivered a lecture as a resource person in the Value-Added Course on **Innovation and Entrepreneurship Management** organized by the School of Science in association with Institution's Innovation Council during April 12 to 26, 2023.
- (ii) **Dr. M Kalyan Phani**, Associate Professor of Dept. of Metallurgical Engg. delivered a guest lecture on the topic **Innovations and Intellectual Property Rights** on 21 April, 2023, at GH Raison University, Saikheda (MP).
- (iii) **Dr. Deepankar Panda, Dr. Deepak Patel (Scientific Officer), Dr. Prasenjit Biswas and Mr. Vikas Mahato (Scientific Officer)** imparted training on Scanning Electron Microscopy and X-Ray Diffraction technique to the B Tech students of Metallurgical Engineering Dept. from NIT Raipur.

## 9. Events and Activities

- (i) The **OPJU Parents Summit (OPS – 2k23)** was conducted in the department of Metallurgical Engineering on April 28, 2023.
- (ii) A Value Added Course on **Design Thinking in Metallurgy and Material Science** was organized during April 17 – 21, 2023 for B.Tech II Year students.
- (iii) The pre-placement training was organized for B.Tech 8<sup>th</sup> sem students for **Automotive Axle Ltd. and Amalgam Steel & Power Pvt. Ltd.** on May 15, 2023 by **Dr. Trinath Talapaneni**.
- (iv) The Diploma 4<sup>th</sup> sem students completed their 15 days of Industrial Training from May 1 – 17, 2023 at **SSD-JSP Punjipathra, Raigarh**.

- (v) The B.Tech 4<sup>th</sup>sem students visited **Bimal Refractories (Pvt.) Limited, Raigarh** on May 25, 2023.
- (vi) **Dr. Satyabrata Das, HOD of the department** and **Dr. R. D. Patidar, Vice Chancellor, OPJU** visited **Sohar University, Sultanate of Oman** and signed MOU for academic development, student and faculty exchange programme and for establishment of Centre of Excellence in steel technology. They also visited Jindal Shadeed, Oman for establishing a Steel Research center at Sohar University.
- (vii) **Dr. Satyabrata Das, Dr. M Kalyan Phani and Dr. Guru Prakash** imparted pre- placement training to B.Tech 8<sup>th</sup>sem students for **JSW Drive**.
- (viii) **Mr. Pradip Kumar Patra**, Ph.D student presented his Pre-Ph.D presentation on **“Development of a hot rolled ultra-high strength steel with YS>700MPa through CSP route”** on June 9, 2023.

## 10. Other Activities

- (i) The department has successfully achieved the 100 % B.Tech Lateralo admission.

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