

Department of Metallurgical Engineering

Quarterly Report (July to September - 2023)

1. Students' Placement

- (i) **B. Tech (Metallurgical and Materials Engineering 2019-2023)** students **Ms. Sonam Singh and Ms. Sneha Singh** got placed in **Metalman Auto**.
- (ii) **B. Tech (Metallurgical and Materials Engineering 2019-2023)** students **Mr. Anshul Yadav, Mr. Gautam, Mr. Aniket Patel, Mr. Shubham Ku. Addi, Mr. Rishav Mahato and Mr. Anishay Ku. Sinha** got placed in **Sunflag Steels**.
- (iii) **B. Tech (Metallurgical and Materials Engineering 2019-2023)** students **Mr. Deendayal Upadhyay, Mr. Akash Biswas and Mr. Pintu Gorai** got placed in **MSP Steel**.
- (iv) **B. Tech (Metallurgical and Materials Engineering 2019-2023)** students **Ms. Goldi Kumari, Mr. Tejesh Kumar Sahu and Mr. Rohit Kumar Yadav** got placed in **JSW Steel Limited**.
- (v) **B. Tech (Metallurgical and Materials Engineering 2019-2023)** students **Mr. Vishal Pathade, Mr. Nikhil Chandrakar, Mr. Gitesh Gupta, Mr. Brujesh Boudh and Mr. Siddha Dinesh** got placed in **Jindal Saw Gulf, Abu Dhabi**.
- (vi) **B. Tech (Metallurgical and Materials Engineering 2019-2023)** students **Mr. Priyanshu Patel, Mr. Abhinav Kumar Sinha, Mr. Adit Kumar Dubey and Mr. Subham Sahu** got placed in **JSP Limited**.
- (vii) **Diploma (Metallurgical Engineering 2023)** student **Mr. Daneshwar Chandra** got placed in **Indo Chains Pvt. Ltd.**
- (viii) **Diploma (Metallurgical Engineering 2023)** student **Mr. Raunak Tripathi** got placed in **JSW Steel Limited**.
- (ix) **M. Tech (Material Science and Technology 2021-2023)** student **Mr. Jammeera Bhasha** got placed in **SLR Metallica**.

2. Publications in SCI Journals

- (i) **Neeraj Kumar, Ashutosh Sharma, M. K. Manoj, Byungmin Ahn, Taguchi optimization of tribological properties and corrosion behavior of self-lubricating Al–Mg–Si/MoS₂ composite processed by powder metallurgy**, Journal of Materials Research and Technology 26 (2023) 1185-1197.

- (ii) Md Izhar Hussain, **M. Kalyan Phani**, P Mallikharjuna Rao, A. Majumder, B N Roy, **Application of Taguchi Method for Experimental Design of Dephosphorization process of steel through Induction furnace route**, Eur. Chem. Bull. 2023,12(10), 13030-13035.
- (iii) Akeshwar Singh Yadav, Nitin Kumar, Gaurav Mahendru, **Guru Prakash**, S. K Nath, **Erosive Wear of Low Temperature Nitrided 13/4 MSS for Hydro-turbine Application** Conference proceedings on **Advances in Materials Processing: Challenges and Opportunities**, published by Springer-Nature.
- (iv) **Patent: Neeraj Kumar Verma**, Ashutosh Sharma, Sangram Keshari Das, Mrinmoy Misra granted a **UK Patent on “Electrochemical Cell for Corrosion Testing” with file no. 6303713.**

3. Faculties Achievements

- (i) **Dr. M. Kalyan Phani**, Associate Professor in the department of Metallurgical Engineering has been nominated and selected as Editorial Board Member of Vect Mag Virtual Conferences.
- (ii) **Dr. S. Das**, Steel Chair Professor and HOD and **Dr. M. Kalyan Phani**, Associate Professor in the department of Metallurgical Engineering were invited as Jury for the **Innovation Week with a theme of Energy Efficiency** held during August 1 – 5, 2023 at JSP Raigarh.

4. Students Achievements

- (i) **Ms. Sharddha** (B.Tech 7th Sem) get paid Long Term Internship of Rs. 22,500/- month in **Tekor Minerals Private Limited**.
- (ii) **Mr. Sambit Tripathy** (M.Tech) selected for Ph.D Program in Indian Institute of Technology (IIT) Ropar in the Department of Metallurgical and Materials Engineering.
- (iii) **B.Tech 3rd sem** students participated in **Design and Prototype Modelling** competition organized by Department of Electrical Engineering held on September 25, 2023 on the occasion of Engineer's Day.

5. Conferences Attended

- (i) **Mr. Varun Kumar Kurapati**, Ph.D Scholar and **Mr. Vishal Singh**, B.Tech student of Department of Metallurgical Engineering participated and successfully completed 5-days online Skill Development Program on **Advanced Manufacturing and Materials Processing** from September 25 – 29, 2023 organized by Annant Gyan Knowledge and Skills Pvt Ltd.

6. Knowledge Imparted

- (i) **Dr. M. Kalyan Phani**, Associate Professor in the department of Metallurgical Engineering delivered an expert talk on **Green Steel: Race Towards Achieving Net Zero**, by **M. Kalyan Phani, S. Das and R.D. Patidar** in the Innovation Week at JSP, Raigarh on August 07, 2023.
- (ii) **Prof. Nandalal Acharjee**, Sr. Assistant Professor in the department of Metallurgical Engineering delivered for two half-day sessions for the students of M. Des. (Lifestyle Accessory Design) of NID, Gandhinagar on the topic: Materials, Methods & Techniques.

7. Events and Activities

- (i) **B.Tech 5th sem** students completed one month **Industrial Training** from July 01 – 31, 2023 in various organizations like JSP Raigarh, JSP Barbil, Jayaswal Neco, Volvo Eicher, SAIL Bokaro etc.
- (ii) **Department of Metallurgical Engineering** conducted **BOS meeting** on July 20, 2023 for Diploma, B.Tech, M.Tech & Ph. D academic session 2023 - 2027.
- (iii) **Department of Metallurgical Engineering and CDC** together conducted **Pre-placement Training** program for **Jindal Saw Gulf, Abu Dhabi** on August 11-17, 2023 and **Jindal Steel & Powder** on **August 20, 2023** for B.Tech students. **Dr. S. Das, Dr. Guru Prakash, Dr. Trinath Talapaneni & Mr. Soumitra Tiwari** were the key resource persons of the training program.
- (iv) **B.Tech 3rd and 5th semester** students celebrated **Teachers Day** in the Department of Metallurgical Engineering on September 05, 2023.

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