

# Department of Metallurgical Engineering

## Quarterly Report (October to December - 2023)

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### 1. Students' Placement

- (i) **B.Tech (2019-2023)** student **Mr. Vijay Punekar** selected in **Mahindra & Mahindra Ltd** as Graduate Apprentice Trainee.
- (ii) **B.Tech (2019-2023)** student **Mr. Aditya Raju Bhorde** selected in **Subodh Technologists**.
- (iii) **Diploma (2023)** students **Mr. Raunak Tripathi & Mr. Akash Upadhyay** selected in **Jindal Steel & Power**.
- (iv) **Diploma (2023)** student **Mr. Santosh Paswan, Mr. Daneshwar Chandra and Mr. Ravishankar Singh** selected in **ARJAS STEELS**.
- (v) **B.Tech VII<sup>th</sup>** semester students **Mr. Abhiram, Mr. Alla Keshavardhan, Mr. Swastibrata Banerjee, Mr. Abhay Raj Sharma, Mr. Amar Hirachand, Mr. Ujjwal Kesharwani, Mr. Sarode Amol and Mr. Chaitanya Yogesh Bawankar** selected in **Unominda**.
- (vi) **B.Tech VII<sup>th</sup>** semester students **Mr. Abhiram, Mr. Swastibrata Banerjee and Mr. Abhay Raj Sharma** selected in **JSL**.

### 2. Publications in SCI Journals

- (i) Arjun Kundu, **Prasenjit Biswas, Deepak Patel**, Jagadish Nayak, Rupesh Kumar Verma, Archana Mallik, Sanjeev Das, Effect of Low Degree Electromagnetic Field on Solidification Mechanism and Mechanical Properties of Twin Roll Cast Al 7075 Alloy, JOM (2023) <https://doi.org/10.1007/s11837-023-06173-y>
- (ii) **Neeraj Kumar**, Jaykumar Jasani, Yogesh Sonvane, J.G Korvink, Ashutosh Sharma, Bharat Sharma, Unfolding the hydrogen gas sensing mechanism across 2D Pnictogen/graphene heterostructure sensors, Sensors and Actuators B: Chemical, 399 (2024) 134807.

### 3. Faculties Achievements

- (i) **Dr. S. Das**, Steel Chair Professor listed in the Top 2% Scientist as per the latest research survey by the Stanford University.
- (ii) Department released the second issue of **AYAS NEWSLETTER 2023** (Vol.1, No.2).

- (iii) **Prof. Neeraj Kumar Verma, Associate Professor** recommended as a potential reviewer for the journal "The Open Civil Engineering Journal".
- (iv) **Prof. Nandalal Acharjee, Sr. Assistant Professor** participated in poster presentation in the BPUT Research Conclave 2023 conducted by Biju Patnaik University of Technology, Orissa on December 14, 2023.
- (v) The Department of Mathematics, School of Science, OP Jindal University has invited **Dr Trinath Talapaneni (Sr. Assistant Professor)** as a Judge on the eve of National Mathematics Day conducted on 22 Dec 2023.
- (vi) **Dr Trinath Talapaneni (Sr. Assistant Professor)** has been appointed as an Examiner to prepare B.Tech ESE Question paper for Mahatma Gandhi Institute of Technology (MGIT, Autonomous) Hyderabad.

#### 4. Students Achievements

- (i) **B.Tech (V<sup>th</sup> sem)** student **Mr. Kolli Venkatesh** selected for **OPJEMS Scholarship of Rs. 80,000/-**
- (ii) **B.Tech (V<sup>th</sup> sem)** student **Mr. Naresh Ku. Mourya** secured second position in Poster Presentation competition on "**National Energy Conservation Day**" on 14th December 2023 organized at OPJU, Raigarh.

#### 5. Conferences Attended

- (i) **Dr. Nidhi Khobragade, Assistant Professor** participated and presented the paper titled "**Graphene reinforced SiC ceramic composites using powder metallurgy route: A short review**" at **3<sup>rd</sup> International Conference on Materials Science and Engineering (ICMSE)** held on November 23-25, 2023 and organized by the Department of Mechanical Engineering, **Dr B R Ambedkar National Institute of Technology, Jalandhar, Punjab, India.**

#### 6. Knowledge Imparted

- (i) **Dr. Guru Prakash, Associate Professor** delivered lectures on Oct.31, 2023 to JET, JSPL Raigarh on Fundamentals of Iron & Steel Making, Secondary Steel Making and Continuous Casting of Steel.

- (ii) **Dr. Rajesh Jha, Associate Professor** delivered lectures on Oct.31, 2023 to JET, JSPL Raigarh on Artificial Intelligence/IoT: Automation & Challenges and Case Studies on DRI, Blast Furnace, LD, Continuous Casting, Plate & Coil Mill.
- (iii) **Dr. S. Das, Mr. Vikas Mahato , Dr. Prasenjit Biswas** - Consultancy project report on Failure Analysis of Flange Web Weld Tee Joint of JSP, Raigarh submitted on 29 December 2023.

## 7. Events and Activities

- (i) **B.Tech students (V<sup>th</sup> sem)** conducted AICTE activity programme “**Swachhta hi seva abhiyan**” under Green India Initiative in association with NSS on November 03, 2023 from 9:00 to 11:00 AM. The students collected plastic waste from all around the campus. **Mr. Hrishikesh Shastri & Dr. Deepak Patel** coordinated the program.
- (ii) **B.Tech (V<sup>th</sup> sem)** student **Mr. Sakir Ali** has done cleanliness activity (NSS Activity) in **Kirodimalnagar Railway Station, South- East Central Railway Raigarh** on 4 Nov. 2023 on the occasion of National Day of Community Services.
- (iii) Department conducted **pre-placement training session** with Alumni working in **Uno-Minda for B.Tech VII<sup>th</sup> sem** students on 26 Nov.2023.
- (iv) A session on “**Know your University**” was conducted at room no. S-01 on December 01, 2023 for the students of **B. Tech III<sup>rd</sup> and V<sup>th</sup> semester**. **Mr. Hrishikesh Shastri** , Dr. Guru Prakash and Dr. Deepak Patel supported the session.

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