

# ABOUT NIT SRINAGAR

National Institute of Technology, Srinagar was established in 1960 as the Regional Engineering College, Srinagar. The Institute acquired the status of NIT in August, 2003 and attained full autonomy in its Academics. In 2007, it became an Institute of National Importance. It is one of the 31 NITs and it is directly under the control of the MHRD. The Institute is situated at the banks of world-famous Dal Lake. Besides running various undergraduate, post graduate and doctoral programmes, Institute has also established an Innovation Incubation and Entrepreneurship Development (IIED) centre.



## ORGANIZING COMMITTEE

### Chief Patron

**Prof. A. Ravinder Nath**  
Honorable Director, NIT Srinagar

### Patron

**Prof. Atikur Rahman**  
Registrar (I/C) &  
Head of the Department  
Department of Metallurgical and Materials  
Engineering

### Chairman

**Dr. Yashwant Mehta**  
Dean, Planning and Development &  
Associate Professor  
Department of Metallurgical and Materials  
Engineering

### Conveners

**Dr. Anshul Gupta**  
Assistant Professor  
Department of Metallurgical and Materials  
Engineering

**Dr. Nitika Kundan**  
Assistant Professor  
Department of Metallurgical and Materials  
Engineering

### Coordinators

**Dr. Aravi Muzaffar**  
Assistant Professor  
Department of Metallurgical and Materials  
Engineering

**Dr. Srinibash Mishra**  
Assistant Professor  
Department of Metallurgical and Materials  
Engineering

**Dr. Pravn Katiyar**  
Assistant Professor  
Department of Metallurgical and Materials  
Engineering

**Dr. Irfan Wani**  
Assistant Professor  
Department of Metallurgical and Materials  
Engineering

## Short Term Course

On

# Recent Advances in Extractive Metallurgy

27<sup>th</sup> August to 31<sup>st</sup> August 2024



Organized by  
**Department of Metallurgical and  
Materials Engineering**  
National Institute of Technology Srinagar  
Srinagar-190006



## ABOUT THE PROGRAMME

The programme aims at giving a firsthand overview of the recent developments in extractive metallurgy in the Indian industry, academia as well across the globe. Steel, Power and construction are the crucial and very important sectors to the development of any modern economy and is considered to be the backbone of human civilization. The level of per capita consumption of steel is treated as an important index of the level of socioeconomic development and living standards of the people in any country. Therefore, no developing country can afford to ignore these sectors of the industries. Steel industry derives its demand from other important sectors like infrastructure, power, aviation, engineering, construction, automobile, pipes and tubes etc. Thus its intense integration with other important industries makes it a strategic sector for the Governments as well as the economy as a whole.

## TOPICS TO BE COVERED

- Worldwide development of raw material base for the production of pig iron, steel and cast irons in recent years
- Sustainable Metal Extraction: Opportunities and Challenges
- Modelling and Simulation for Metal Extraction
- Microwave processing for extractive metallurgy applications
- Physical and numerical modelling of ironmaking and steelmaking processes
- Case studies on physical and thermodynamic modeling of steelmaking operations
- Modern-day approaches of Extractive Metallurgy applied to Urban Mining
- Green Steel

## RESOURCE PERSONS



Prof. GG Roy  
IIT Kharagpur



Prof. GS Gupta  
IISc Bangalore



Prof. AK Singh,  
IIT Kanpur



Dr. Chenna Rao  
Borra, IIT  
Kharagpur



Dr. Ashok Kamaraj,  
IIT Hyderabad



Dr. Srishilan C,  
IIT Jammu



Dr. Nikhil Dhawan,  
IIT Roorkee



Dr. Snigdha Ghosh,  
IIT Bhubaneswar



Dr. Kall Sanjay,  
IMMT  
Bhubaneswar

## REGISTRATION DETAILS

Registration Fee: The registration fee for the course is as follows:

	Online	Offline*
Industry	Rs. 1000	Rs. 5000
Academia	Rs. 500	Rs. 2000
Students/scholars	Rs. 200	Rs. 1000

\*Fee includes a registration kit and snacks during workshop.

Use the following link to register:

<https://forms.gle/ZyndFViKefRT9x1s9>

## VISION OF THE INSTITUTE

To establish a unique identity of a pioneer technical Institute for NIT Srinagar by developing a high quality technical manpower and technological resources that aim at economic and social development of the nation as a whole and the region in particular keeping in view global challenges.

## MISSION OF THE INSTITUTE

- (1) The broad mission of NIT Srinagar is to create a strong and transformative technical educational environment in which fresh ideas, moral principles, research and excellence nurture with international standards.
- (2) Technically educated and broadly talented engineers, future innovators and entrepreneurs, graduate with understanding the needs and the problems of the industry, the society, the state, and the nation.
- (3) We promise to inculcate the highest degree of confidence, professionalism, academic excellence and engineering ethics in budding engineers.

**Certificate:** Certificate to the participants will be issued on successful completion of the course as per the guidelines.

## VISIT TO GULMARG (TENTATIVE, ON PAYMENT BASIS)



Gulmarg, known as Gulmarag in Kashmiri, is a town, hill station, popular tourist destination, popular skiing destination and a notified area committee in the Baramulla district in the Indian union territory of Jammu and Kashmir.

## LOCAL SIGHTSEEING (TENTATIVE, ON PAYMENT BASIS)



Srinagar is the summer capital and largest city of the Indian-administered union territory of Jammu and Kashmir in the disputed Kashmir region. It lies in the Kashmir Valley along the banks of the Jhelum River, and the shores of Dal and Anchar lakes, between the Hari Parbat and Shankaracharya hills.

## ACCOMODATION CHARGES

Participants will be accommodated in Institute Guest House as per availability. The charges for the Institute Guest House are as follows:

Type of room	Charges per night (excluding GST)
Single/ Double Occupancy	Rs. 2200/-
VIP Room/ Suites	Rs. 4000/-

## ABOUT THE DEPARTMENT

The department of "**Metallurgical and Materials Engineering**" (earlier known as the Department of Metallurgical Engineering) was established in the year 1963. It conducts a four (04) years under-graduate academic programme leading to the award of **B.Tech. Degree** in "**Metallurgical & Materials Engineering**". The department has qualified faculty and the expertise available includes disciplines VIZ. Foundry Tech., Materials Technology, Corrosion Engineering, Welding Technology, Physical Met., Ferrous and Non-ferrous Metallurgy, Non-destructive Testing and Evaluation etc. Apart from teaching, the department is engaged in a wide range of activities covering research and development, testing and consultancy, curricular and faculty development. The department aims to produce technocrats who possess besides necessary technical knowledge, human and social values, leadership qualities, and high degree of confidence and technical creativity.

## HOW TO REACH

### *By Air:*

Named Sheikh ul Alam Airport (IATA code SXR) , Srinagar Airport is an international airport. This airport is well connected and airlines offer regular flights from Srinagar to Delhi, Mumbai and Chandigarh. The airport is placed just 15 km away from the center of the city.

Nearest Airport : Srinagar Airport, Srinagar

### *By Rail:*

To reach Srinagar by train, one has to reach either Jammu railway station. From the Jammu Railway station, you can hire Cabs / taxis to reach.

### *By Road:*

Srinagar is the capital of the Jammu and Kashmir UT. The city is well connected with major cities like Delhi (876 km), Chandigarh (646 km), Leh (424 km) and Jammu (258 km). There is good Bus service and Cab service available.

\*Please note that Prepaid Sim will not work in Kashmir. So please bring a postpaid SIM for connectivity.

## CONTACT DETAILS

### FOR FURTHER DETAILS, CONTACT:

1. Dr. Anshul Gupta, +91 7523830157, [anshul.gupta@nitsri.ac.in](mailto:anshul.gupta@nitsri.ac.in)
2. Dr. Nitika Kundan, +91 6006191446 [nitika.kundan@nitsri.ac.in](mailto:nitika.kundan@nitsri.ac.in)