

About Department

The Department of Metallurgical Engineering at IIT (BHU), established in the year 1919, pioneered metallurgical education and research in this country owing to the noble thoughts and far-sighted vision of Mahamana Pandit Madan Mohan Malaviyaji. An Advanced Research Centre for Iron and Steel of Ministry of Steel, Government of India, New Delhi and Malaviya Chair of Railway Technology from Ministry of Railways has recently been established. The Department is well equipped with state of the art characterization techniques like electron microscopes (TEM, SEM), X-Ray Diffraction, Material Testing Systems and high temperature furnaces.

Speakers

The speakers will be experienced personnel from academic institutions, research laboratory and Industries.

Important Dates

Receipt of applications: January 31st, 2019

Intimation of selection: February 9th, 2019

Organizing Committee

Dr GS Mohobia

Coordinator

Dr Vikas Jindal, Dr J K Singh and Professor K K Singh

Department of Metallurgical Engineering, IIT(BHU)

Varanasi - 221 005, UP, India

How To Reach

Varanasi is well connected and accessible to major Indian cities and tourist spots. There are daily domestic flights to and from Varanasi to several cities in India like New Delhi, Mumbai, Bangalore, Chennai, Hyderabad, Kolkata etc. Nearest railway Stations are Varanasi Cantonment and Mughalsarai. The Institute is located in the south of the Varanasi city and about 7 km away from Varanasi Railway Station and 30 km from the Babatpur (Varanasi) airport. Taxis, Auto-rickshaws, are available as transport. Daily flights on Delhi-Agra-Khajuraho-Varanasi route are quite popular among the tourists.

About Varanasi

Varanasi, the holy city of India, is also known by the name of Kashi and Banaras. Kashi, the city of Moksha for Hindus since centuries, is known for its fine-quality silks, 'paan' and Banaras Hindu University. One of the seven holiest cities, Varanasi is the oldest city of the world. Varanasi is more than 3000 years old and is famous as the city of temples. Sarnath is about 10 Km from Varanasi. The museum, excavation sites and the buddhist temples bear the testimony of amalgamation of Indian culture with the neighbouring countries.

Kumbh Mela 2019- Allahabad

It will also be an excellent opportunity to come over Varanasi and visit Kumbh Mela which will be held in Allahabad (Prayag), 120km away from Varanasi, in the year 2019 from 15th of January till 4th of March. A trip to Allahabad and local sightseeing may be arranged on request at the end of the course.

CELEBRATING CENTENARY



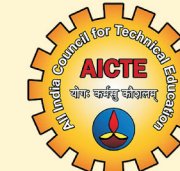
QIP Sponsored

**Short Term Course (STC) &
Continuing Education Programme (CEP)**

on

Metallurgical Failures

FEBRUARY 18-23, 2019



Organized by

QIP Center, IIT(BHU), Varanasi

and

Department of Metallurgical Engineering

Indian Institute of Technology (BHU) Varanasi-221005 (U.P.) India

website: www.iitbhu.ac.in



About The Course

This course briefly explains fundamentals of metallurgical failures, why do materials fail, failure investigation and prevention, as well as the mechanisms of fracture and corrosion related failures. The knowledge gained allows professionals to design products that will be less prone to metallurgical failures.

After the Course You Can:

- Understand how and why components fail in a given mode and how to prevent failures.
- Identify the various factors that are needed to be considered in material selection, design and the service environment.
- Recognize the basic features and characteristics of different failure mechanisms.
- Recommend testing or analysis that can help to determine the cause of the failures.
- Gain experience in metallurgical failure analysis in different scenarios.
- Specify appropriate detection methods to prevent component failure.

Course Content

- Introduction to Failure and Fracture
- Basics of Metallurgy
- Metal properties and failures
- Failure Mechanisms
- Failure analysis techniques and Quality Control
- Case studies

Course Coordinator

Dr. GS Mahobia

Associate Professor

Department of Metallurgical Engineering

Indian Institute of Technology (BHU), Varanasi, India

e-mail: gsm.met@iitbhu.ac.in, Phone: 9889296522



Registration

Category I : Registration for QIP Sponsored Teachers from AICTE approved Institutions:

Participants should bring a letter of nomination from their head of institution stating that they are being deputed for the course. There is no registration/accommodation fee. However, a Demand Draft of Rs. 2,000/- (drawn in favour of "Registrar, IIT(BHU), Varanasi") should be enclosed with the application form which will be refunded to the participants attending the course. Total reserved seats for QIP candidates is 30 which will be awarded on first-cum-first served basis. The refund amount will not be returned to those who will be absent.

Category II: Registration for Others (CEP)

- Scientists / Technologists / Engineers from Industry or Government institutions : Course Fee Rs. 23,600/-
- Faculties from University and Engineering Colleges not sponsored by AICTE: Course Fee: Rs. 17,700/-
- Ph.D Research Scholars: Course fee: Rs. 3,540/-

Fees are inclusive of 18%GST. For registration email course coordinator (gsm.met@iitbhu.ac.in) giving details of participants. Registration Fees must be paid by electronic/online transfer mode only.

The bank account details are as follows:

Account Name	MF - 2019
Account Number	37888162843
Bank Name	State Bank of India
Branch	IIT(BHU), Varanasi
IFSC Code	SBIN0011445
GST No.	09AAAJI0396R1ZJ

Candidates will be provided course materials, working lunches, tea and snacks during the course hours. Registration fees, boarding and lodging expenses will be waived for QIP sponsored candidates. To-and-fro travel cost (up to A/C 3-tier rail fare only) by the shortest route between the place of work and the venue of the course will be reimbursed for Category-I. It should be borne by the participants of other category. They are requested to arrange their own accommodation. However, necessary help will be provided by the organizing committee.

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Name (block letters)

Designation

Organization.....

Address

.....Pin code.....

Ph. No. Fax No.

E-mail

Category: (I) QIP Sponsored OR (II) Others (CEP)

Accommodation required: Yes / No

Research area/Experience

Registration fees details

Electronic/ online Transaction No.

Bank Date

Refundable Security Deposit Details (for AICTE approved college teachers only):

DD No. Date

Bank

Sponsorship Certificate

The applicant is hereby sponsored and will be permitted to attend the above course, if selected.

Signature of the Applicant

Signature with seal Head of the Institution