



# INDIAN INSTITUTE OF TECHNOLOGY INDORE

## 6-Days Short-Term Course on Industrial Metallurgy and Quality Control

February 11-16, 2019

SPONSORED BY: TEQIP

### Objectives:

Various metals and alloys have wide applications in many industries. Metallurgy is the key factor in automotive, nuclear, chemical and aerospace industries. Therefore, the precise understanding of metals/alloys and their behavior in actual use are required for almost every engineering and science professionals. In any manufacturing industry, “quality” of the engineering-components is of prime importance, and it depends on the structure, properties, and processing. Therefore, the quality control and R&D departments of every industry require the manpower who understand materials, manufacturing processes, quality control approaches, and able to anticipate the root-cause of failures for preventive measures. This course deals with the fundamentals of industrial metallurgy, related case-studies, and quality control aspects. This course involves lectures by industry professionals, who have significant experience in quality control.

At the end of the course, the participants are expected to:

- have an overall understanding of the scientific and engineering aspects of ferrous and non-ferrous alloys, microstructures, properties, failure analysis, and quality control
- be familiarized with the industrial case studies and research scope in Metallurgy Engineering and Materials Science.

### Participants:

The course is designed for

- Faculties, Scientists and Engineers in Mechanical / Production / Metallurgy / Materials / Physics / Chemistry.
- Professionals involved in Materials / Metals industries.
- Research scholars and students in the relevant fields.

### Course Modules:

- Basic Metallurgy: Steel Production, Microstructures, and Heat-Treatments.
- Advanced alloys in industrial applications.
- Industrial failure analysis and case studies.
- ISO/IEC 17025 laboratories management system for quality, administrative and technical operations.
- Metallurgical Quality Control (e.g., Material selection, feasibility review, and testing, etc.).
- International Testing Standards: Theory and Practice.

### Course Coordinators:

- Dr. S. S. Hosmani (Associate Professor, IIT Indore)
- Dr. R. S. Devan (Associate Professor, IIT Indore)

### Certificate:

Participants who successfully complete the course will be awarded a certificate.

### Venue:

The course will be conducted at IIT Indore premises.

### Registration:

There is **no fee for participants from TEQIP sponsored colleges**. The nominations along with the registration forms must be sent through their coordinator to the address below. Email confirmation in advance is suggested.

For other participants, the fee (per participant) is **Rs. 3,500/-** (Three Thousand Five Hundred Only) **for professionals** and **Rs. 2,000** (Two Thousand Only) **for students**. Registration fee includes course material, tea & working lunches.

**MODE OF PAYMENT:** Link for the payment through **paytm portal** is available on IIT Indore website (steps for the payment are mentioned on the next page). **Evidence of payment should be emailed in advance to confirm the participation.**

### Accommodation:

Accommodation may be available at hostels of IIT Indore on payment basis. Candidates can check the availability on Email: [hostel@iiti.ac.in](mailto:hostel@iiti.ac.in) and Phone: 07324-306583.

### Contact Person:

Dr. Santosh S. Hosmani / Dr. R. S. Devan  
Metallurgy Engineering and Materials Science,  
IIT Indore,  
Simrol, Indore- 453552, India  
E-mail: [sshosmani@iiti.ac.in](mailto:sshosmani@iiti.ac.in); [rupesh@iiti.ac.in](mailto:rupesh@iiti.ac.in)  
Ph. (O): 07324-306525 / 07324-306526;  
Ph. (M): 09752804241 / 08308208880.



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## 6-Days Short-Term Course on

## Industrial Metallurgy and Quality Control

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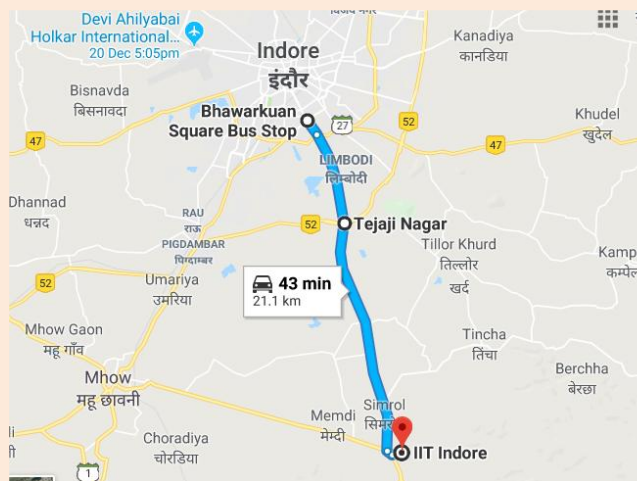
SPONSORED BY: TEQIP

### How to Reach IIT Indore:

IIT Indore is located at Simrol, Khandwa Road. To reach IIT Indore from the airport or railway station, you may use one of the prepaid taxi service or AICTSL Bus No. M19 (frequently plying from Bhawarkuan Square via Tejaji Nagar towards IIT Indore, Simrol).

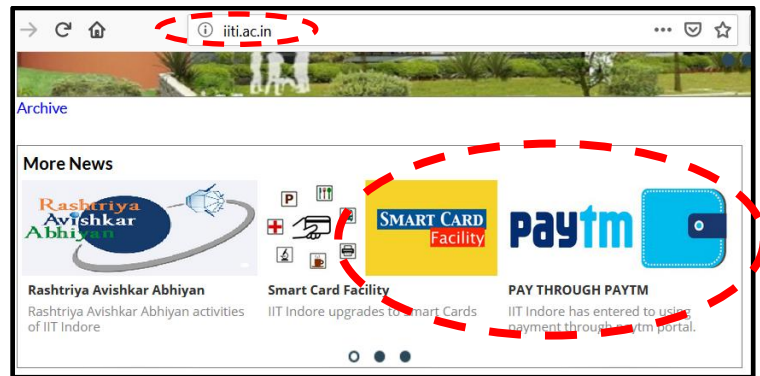
- From Indore Railway Station / Bus stand:  
Distance is ~ 24.4 Kms and travel time is ~ 50 min.
- From Indore Airport:  
Distance is ~ 35.3 Kms and travel time is ~ 1 hour.
- From Bhopal via Chartered Bus:  
Distance is ~ 200 Kms and travel time is ~ 3-4 hours.

**Note:** Please ask your driver to follow the way via **Tejaji Nagar**, which is the shortest route to reach Simrol (IIT Indore) from Indore Railway Station or Indore Airport (Devi Ahilyabai Holkar Airport).

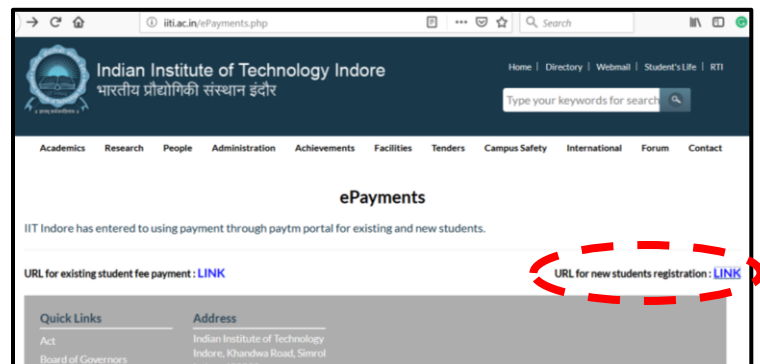


### How to Pay Through Paytm Portal:

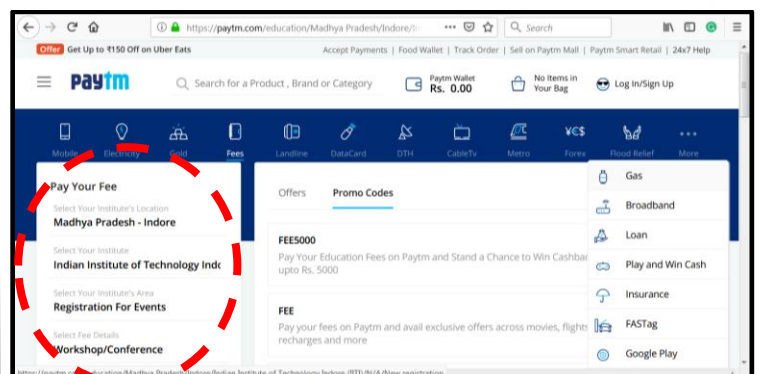
- **Step-1:** IIT Indore website → Paytm Portal



- **Step-2:** Click on URL for new students registration LINK



- **Step-3:** Select → Registration for Events → Workshop/Conference → Other Details → Proceed





# INDIAN INSTITUTE OF TECHNOLOGY INDORE

## Registration form for the Short-Term Course on Industrial Metallurgy and Quality Control

February 11-16, 2019

1.	<b>Name of the Person:</b>	
2.	<b>Designation:</b>	
3.	<b>Academic Qualification:</b>	
4.	<b>Name of Institution / Organization:</b>	
5.	<b>Address for Communication:</b>	
6.	<b>Phone:</b>	
7.	<b>Email:</b>	
8.	<b>Online Payment Details:</b> Link for the payment through <u>Paytm Portal</u> is available on IIT Indore website	
	• <b>Amount:</b>	
	• <b>Online-Payment Ref. No.:</b>	
	• <b>Transaction Date:</b>	
	• <b>Bank etc. Details:</b>	
	<b>Evidence of payment should be emailed in advance to confirm the participation.</b>	

**Place:**

**Date:**

**Signature of Participant:**

**Approval / Permission from Institution / Organization:**

We approve the above application as a participant for the above short course, which is being organized by IIT Indore on 11<sup>th</sup> to 16<sup>th</sup> February 2019.

**Authorized Signatory**

**Institute/Organization Seal**

**Note:** To confirm the participation in advance, scan copy of the filled form can be emailed to [sshosmani@iiti.ac.in](mailto:sshosmani@iiti.ac.in)