

Short-term Course Sponsored by TEQIP-III

on

Joining of Advanced Materials

during

December 9 - 13, 2019

at

Indian Institute of Technology Delhi



Coordinators

Prof. Naresh V. Datla and Prof. S. Aravindan
Department of Mechanical Engineering
Indian Institute of Technology Delhi
Hauz Khas, New Delhi-110016

About IIT Delhi

Established in 1961, Indian Institute of Technology Delhi is one of the premier educational institutions in the country and counted among the top institutions in the world, situated in the National Capital. IIT Delhi has been instrumental in providing solutions to technological and societal problems through innovative academic and research activities. IIT Delhi has been consistently placed among top academic universities around the globe. Recently, IIT Delhi has been awarded the status of “Institution of Eminence” by Government of India.



Course Contents

Lectures and laboratory demonstrations will cover:

- Basic principles and technology of welding, adhesive bonding and other joining processes.
- Joining of advanced materials such as light weight metallic alloys and polymer composites.
- Welding methods such as GTAW, A-TIG, Hotwire TIG, GMAW, CMT, Spin arc welding and others will be covered
- Adhesive bonding aspects such as adhesion, adhesives, surface pretreatments and bonding methods will be discussed

Learning Outcomes

- Science behind welding, adhesive bonding and other joining processes
- Able to identify appropriate joining method to be used for a specific application
- Able to identify appropriate test methods and analyse joint failures
- Having hands on experience in welding and adhesive bonding processes.

Target Audience

The course is designed for:

- Faculty members in TEQIP-III institutes
- Faculty from non-TEQIP institutions
- Researchers who want to increase their skills and knowledge on joining processes
- Industry people aspiring to work on automotive, aerospace and microelectronic joints

Faculty

The following Faculty/ speakers would deliver the lectures during the course:

1. Prof. S. Aravindan, Department of Mechanical Engineering, IIT Delhi
2. Prof. Naresh V Datla, Department of Mechanical Engineering, IIT Delhi

Additionally eminent speakers from academia and industry will deliver the lectures.

Accommodation

Boarding and lodging will be arranged for the candidates in IITD Guest House/Hostel/ hotels on sharing basis. However, due to a limited number of rooms in the guest house the allotment will be on first-come, first-serve basis.

Important Dates

The last date for the receipt of duly filled registration form is **15/11/2019** and the selected candidates will be intimated on **18/11/2019**.

Course fee and payments

1. TEQIP approved institutes

No course fee shall be charged from faculty of TEQIP-III approved institutes.

2. Non-TEQIP institutes and industries

Payment should be done digitally by this category of participants.

- Research scholars: ₹5,000 + 18% GST (excluding lodging and boarding charges)
- Faculty/Academic Institution participants: ₹ 10,000 + 18% GST (excluding lodging and boarding charges)
- Industry participants: ₹ 20,000 + 18% GST (excluding lodging and boarding charges)

The bank account details are as follows:

Bank name & Address	State Bank of India, IIT Delhi, Hauz Khas, New Delhi-110016
Saving account no	36819334799
IFSC code	SBIN0001077
MICR code	110002156
Account holder name	IITD CEP ACCOUNT
PAN No.	AAATI0393L

Scanned copy of the filled registration with digital payment receipt has to be sent to the coordinator through email to datla.iitd@gmail.com. The selection will be done on first come first serve basis. Accordingly, the confirmation will be notified to candidates.

How to reach Institute campus:

The Institute campus is about 19 Km away from the Delhi Main Railway Station, 14 Km from the New Delhi Railway Station, 21 Km from the Inter-State Bus Terminal and 10 Km from Delhi Airport. The campus can be easily reached by bus, metro, auto or taxi. IIT Delhi metro station is the nearest metro station which is approx. 0.5 km from IIT Delhi main gate and Hauz Khas metro station is around 1.2 km from IIT Delhi main gate.

Course Management

Course coordinators:

Prof. Naresh V Datla and Prof. S. Aravindan
Department of Mechanical Engineering,
IIT Delhi, Hauz Khas, New Delhi-110016, India
E-mail: datla.iitd@gmail.com
Phone: 011-26596071

Venue:

Lectures: Lecture Hall Complex
Laboratories: Relevant Mechanical
Engineering Laboratories of IIT Delhi
New Delhi-110016

Registration Form

Joining of Advanced Materials

(9th to 13th December, 2019)

Name of applicant:

Designation:

Highest qualification:

Date of birth (DD/MM/YYYY):

Gender: Female / Male.....

Institute/ Organization name with complete address:

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.....

E-mail ID : Mobile number:

Do you need accommodation: Yes/No

Details of fee paid: Transaction ID/DD no:

Transaction date:

Issuing bank:

I,, certify that above information provided by me are correct.

(Signature of applicant with date)

Dr./Prof./Ms/Mr.....is an employee/a research scholar of my organisation/institute and is permitted to attend the course on "**Joining of Advanced Materials**" at IIT Delhi from 9th December to 13th December, 2019.

Date: __/__/__

Signature of head with date and seal

AFFIX YOUR
RECENT
PASSPORT
SIZE
PHOTOGRAPH