

**AICTE Sponsored
QIP Short Term Course
On
“Recent Advances in Casting and Welding”**

Name (block letter)
 Designation & pay scale
 Organization
 Address for communication.....
 Pin code Ph. No.
 E-mail
 Highest Academic Qualification:
 Specialization:
 Experience (in years):
 (a) Teaching
 (b) Industrial
 Accommodation required: Yes/ No
 Amount of TA required as per entitlement mentioned in the brochure (only for AICTE approved college teachers):
 Please register me for the “QIP short term course on “Casting & Welding: Fundamentals and Recent Advances” held at IIT (BHU) Varanasi.

Place:

Date: **Signature of the applicant**

SPONSORSHIP

Prof./Dr./Mr./Ms./Mrs./_____ is an employee of our institute and his/her application is hereby sponsored. The applicant will be permitted to attend the “QIP short term course on “Recent Advances in Casting and Welding” at IIT (BHU) Varanasi, during 01-07, October, 2018, if selected.

Date: Signature of Sponsoring Authority

Designation:

Official Seal:

Signature of the Applicant

Registration Procedure

The registration fee/caution money is to be paid in form of Bank Draft in favor of 'Registrar, IIT (BHU), Varanasi' payable at Varanasi, (Branch Code: 11445). Registration fee along with completed application form (in brochure) is to be sent to 'The Coordinator, QIP Short-term course on “Recent Advances in Casting and Welding”, Department of Mechanical Engineering, IIT (BHU) Varanasi, 221005, U.P., India'. Also, send a scanned copy of the application form and draft through email: sptewari.mec@itbhu.ac.in

How to reach

The city of Varanasi is well connected by road, rail and air with all the important cities of India. Regular flights are there from Varanasi to Delhi, Mumbai, Chennai, Hyderabad, Bangalore, Kolkata, Khajuraho and Lucknow. The IIT (BHU) campus is about 10 Km from Varanasi Cantt and 20 Km from Mughalsarai railway station and 35 Km from the Babatpur (Varanasi) airport.

About Varanasi

The holy city Varanasi is the oldest living city in the world which is also known as the capital of the spiritualistic world. The city has a great historical and cultural importance. This religious and cultural capital of India is situated at the bank of the holy river Ganges and is famous for temples of Lord Shiva, Buddha (at Sarnath) and Sankat Mochan etc. Varanasi is the premiere most place of oriental learning and simultaneously keeping pace with modern advanced knowledge. This vibrant city with multiple dimensions of knowledge and liberation has a magnetic attraction for people all over the world.



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October 01-07, 2018

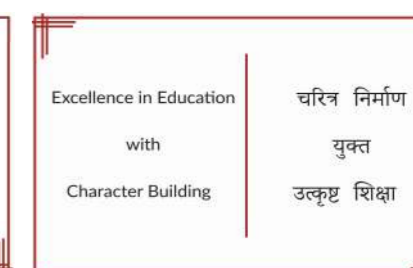


Organized by

Department of Mechanical Engineering
 Indian Institute of Technology (BHU)
 Varanasi - 221005, Uttar Pradesh

Coordinator:

Prof. S.P.Tewari
 Department of Mechanical Engineering
 Indian Institute of Technology (BHU)
 Varanasi - 221005, Uttar Pradesh
 Mob.No:9721683806
 E.Mail:sptewari.mec@itbhu.ac.in



INTRODUCTION

Casting and welding constitute a significant area of manufacturing. They cover wide range of applications e.g. automobiles, defence, ship building, industrial components and aviation sectors etc. Recent advances in technological front have paved the way to enhance productivity and quality. Research and developmental in both areas- Casting and Welding is beneficial for the society. The short term course deals with the fundamentals and the advancement in the field of casting and welding.

BROAD OBJECTIVES

To familiarize the delegates with the concept of

1. Solidification of metal and alloy in case of casting and welding processes.
2. Welding metallurgy
3. Understanding of basic causes and remedies of casting and welding defects.
4. Method for characterizing the micro-structural features.
5. Destructive and non-destructive testing techniques for casting and welding.
6. Recent advances in casting and welding

COURSE CONTENTS

1. Solidification mechanism of casting.
2. Mechanism of weld metal solidification.
3. Metallurgy of fusion welds.
4. Material Characterization.
5. Casting and welding defects and their remedies along with testing techniques.
6. Recent advances in casting
7. Recent advances in Welding

WHO MAY BENEFIT

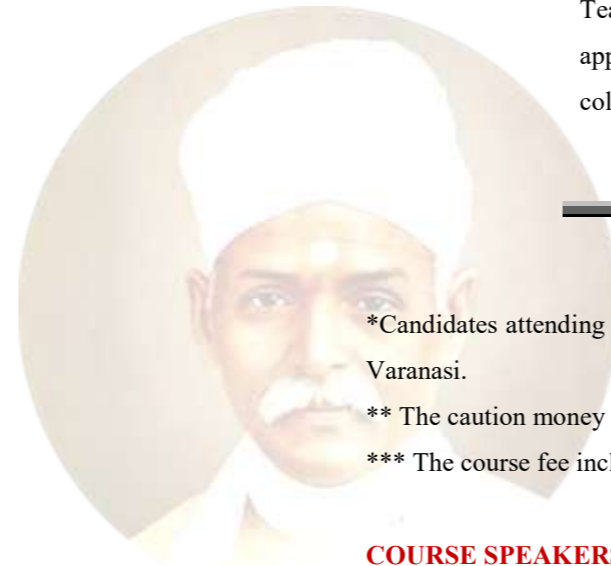
The course will attract Faculty, Researchers, Engineers, Scientists and Students working in materials processing, manufacturing related areas, Research Organizations and Industries. Participants are expected from all over India, which would provide an excellent opportunity for them to interact with one another in their area of specialization.

Who should attend?

Faculty members of University/ Engineering colleges recognized by AICTE working in the departments of Mechanical Engineering / Production Engg. / Manufacturing Engg./ Material Science/ Metallurgy are eligible to attend the course.

Interested participants are requested to send their filled registration form at the earliest. This will help us in making necessary arrangements. Selected candidates will be informed by e-mail.

Participants	Travel allowance and accommodation Registration fee	Registration fee
Teachers from AICTE approved engineering colleges	* III – AC to & fro fare by the shortest railway route, free boarding and lodging at guest house	Free** (Rs.2000/ caution money)



*Candidates attending the course in full will be eligible for TA. For all other participants no TA will be paid by IIT (BHU), Varanasi.

** The caution money is for confirmation of participation and will be returned back only if the participant attends the course.

*** The course fee includes hospitality and study material

COURSE SPEAKERS

Subject experts will be from IITs, NITs, Other reputed Institutes, Research Organizations and Industries.

ACCOMMODATION

Efforts will be made to accommodate in the institute guest house on twin sharing basis on receipt of request from the participants. Please note that no family accommodation is available.

Coordinator

Prof. S.P.Tewari

Mechanical Engineering Department

IIT(BHU),Varanasi-221001