

Whom will the course benefit?

Faculty members and industry personnel involved in R&D in the disciplines of metallurgy, chemical engineering, materials and mechanical engineering, having an interest in process metallurgy.

Course Objective:

- To provide a strong foundation in iron making with a focus on critical reasoning
- To develop a deeper understanding of core metallurgical / materials / chemical concepts involved in iron making.
- To develop an understanding of the subject through a learning progression beginning with introduction of iron making blast furnace and ending with alternative route for iron making.

Course Contents:

- Raw materials and agglomeration along with their properties.
- Charging of materials in the blast furnace
- Description of various physical and chemical phenomena along with the transport processes in different zones of the blast furnace.
- Productivity and irregularities aspects of the blast furnace along with the environmental impact and carbon capturing.
- A brief overview of the emerging alternative processes for the production of iron.

Faculty:

IISc faculty will deliver the lectures.

Eligibility:

The course is meant for faculty of engineering colleges recognized by All India Council for Technical Education (AICTE), National Institutes of Technology (NIT's) and National Institute of Technical Teachers' Training & Research (NITTTRs). Selected teachers will be paid TA at actual subject to the limit of Three tier AC train/bus fare by the shortest route from the place of work to Bengaluru and back. **However, the maximum TA payable is Rs.3000/-**. They will be provided with a daily allowance of Rs.500/- (for 5 days only) towards boarding and lodging as per QIP rules, and will be supplied with the course materials. **The lodging charges will be Rs.300/- per day. Local participants will be paid DA @ Rs.150/- per day for 5 days.**

In addition, a few seats are available for non-sponsored (self-support) teachers, scientists from research labs, practicing engineers from industries and other interested persons on payment basis as under.

Course Fee:

Academic Institutes, Govt. R&D Labs: **10,000 INR**
Private Industries : **15,000 INR**

This will entitle them to participate in the course and receive the course material. Single room **accommodation** is available on the Institute campus at the **Hoysala House**. The participants have to request in advance along with the registration form for such accommodation. The lodging charges will be **Rs.1000/- per day** for self-support college teachers, and **Rs.1500/- per day** for industry participants, subject to availability of accommodation.



CENTRE FOR CONTINUING EDUCATION
Indian Institute of Science,
Bengaluru -560 012

QIP Short Term Course On “Introduction to Ironmaking”

19th-23rd June 2017

Registration Form

(Please mail to reach before ~~28 April 2017~~ **12 May 2017**)

1. Name.....
2. Age:..... Sex: Male/Female
3. Office address
.....
.....
.....
4. Landline No. with STD code:.....
5. Mobile No.
6. Email ID:.....
7. Academic Qualifications
Degree subject year University
Diploma/B.Sc./B.A.....
B.E/B.Tech/M.Sc.
M.E/M.Tech./M.Phil.....
Ph.D. Completed/Pursuing/Intend pursuing:.....
Thesis title/Proposed Research Area:.....
.....
8. Teaching Experience.....(Years)
9. Industry Experience(Years)

10. Course taught/professional responsibilities.....
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.....
.....

11. Accommodation required Yes / No

12. Self-support candidate :
Academic Institutes, Govt. R&D Labs: **Rs. 10,000**
Private Industries : **Rs. 15,000**

Demand Draft No..... dated.....

I agree to abide by the rules of the QIP courses. If selected, I shall participate in the course for the entire duration.

Date: _____
Place: _____ Signature _____

The applicant Mr/Ms.....

.....
from our institution will be permitted to attend the QIP Short Term Course on “**Introduction to Ironmaking**” to be held during 19-23 June 2017 at the Indian Institute of Science, Bengaluru, if selected. He/she will be granted necessary leave of absence.

It is certified that our college is recognized by AICTE Order No:.....Date:.....

Place: _____
Date: _____ Signature of Head of the Department _____

Signature and Seal of the Principal of the Institution

(Xerox copy of this form may also be used)

Intending participants may use the attached application form or a xerox copy of the same. Applicants from AICTE recognized colleges, NIT’s and NITTTRs are required to submit their applications sponsored by their colleges.

Non-sponsored (self-support) teacher applicants should send their application along with a **DD for the course fee** drawn in favor of “**Registrar, Indian Institute of Science, Bengaluru -560012**” payable at Bengaluru. The course fee will be **Rs. 10,000** for participants from **academic institutions and government research labs**, and **Rs. 15,000** for participants from **other organizations**.

Deadlines:

Receiving completed applications: **28 April 2017**
12 May 2017

Intimation of selection: **3 May 2017**
17 May 2017

Please mail the filled-in application form to:

The Officer-in-charge
Centre for Continuing Education
Indian Institute of Science
Bengaluru - 560 012
Telephone: 080-23600911, 22932055
Email: admin@cce.iisc.ernet.in/
office@cce.iisc.ernet.in

To reach on or before: **28 April 2017**
12 May 2017

QIP Short Term Course On “Introduction to Ironmaking”

19th-23rd June 2017

Coordinator

Prof. Govind S Gupta
Dept. of Materials Engineering

Sponsored by
AICTE, NEW DELHI



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Indian Institute of Science
Bengaluru – 560 012
<http://www.cce.iisc.ernet.in>