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/-.

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 Housala 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.
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.

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:…………………..

Place: 
Date: 
Signature of Head of the Department

(Xerox copy of this form may also be used)