



TEQIP-III
sponsored
Short Term Course
on
*Indian Iron & Steel
Technologies: Challenges
and Remedies*
(IISTCR-2019)
December 09-13, 2019

Organized by:
Department of Metallurgical and
Materials Engineering
National Institute of Technology
Durgapur-713209



Coordinators
Dr. Arup Kr. Mandal
Assistant professor, MME, NIT Durgapur
Dr. S. Ghorai
Associate professor, MME, NIT Durgapur
Dr. M.K. Mondal
Associate professor, MME, NIT Durgapur

ORGANIZING COMMITTEE

PATRON

Prof. Anupam Basu
Director, NIT Durgapur

CHAIRMAN

Dr. M.M Ghosh,
HOD, MME Department, NIT Durgapur

ADVISORS

Prof. K. S. Ghosh
Professor, MME, NIT Durgapur
Prof. J. Maity
Professor, MME, NIT Durgapur

TREASURER

Dr. Supriya Bera
Associate professor, MME, NIT Durgapur

MEMBERS

Dr. Susanta Pramanik
Associate professor, MME, NIT Durgapur
Dr. Bijay Kumar Show
Associate professor, MME, NIT Durgapur
Dr. Durbadal Mandal
Assistant professor, MME, NIT Durgapur
Dr Manab Mallik
Assistant professor, MME, NIT Durgapur
Dr. Barnali Maji
Assistant professor, MME, NIT Durgapur
Dr. Krishna Priya Yagati
Assistant professor, MME, NIT Durgapur

COORDINATORS & CONTACT PERSONS

Dr. Arup Kr. Mandal
arup.mandal@mme.nitdgp.ac.in
+919434788110
Dr. S. Ghorai
satadal.ghorai@mme.nitdgp.ac.in
+919470150674
Dr. M.K. Mondal
manaskumar.mondal@mme.nitdgp.ac.in
+919434789016

Short Term Course on
**Indian Iron & Steel Technologies: Challenges and
Remedies (IISTCR-2019) (December 9-13, 2019)**

Registration Form

Name (block
letters):.....
Designation:.....
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):

DD No.& Date:.....

Bank :

Amount :

Signature of the applicant

Place:

Date:

Prof./Dr./Mr./Ms./Mrs./

Students of our institute, is here by permitted to
attend the "Indian Iron & Steel Technologies:
Challenges and Remedies (IISTCR-2019)" to be
held at NIT Durgapur, during December 9-13,
2019, if selected.

Signature with date of Sponsoring
Authority:

Designation :

Official Seal

THEME OF THE COURSE

India is the second largest steel producer in the world and aiming to produce 300 MT crude steel by 2030. For achieving the targeted production a major breakthrough is required in the technological intervention as well as to make expertise in this field. Therefore, the knowledge on conventional and advanced Iron and Steel technologies is required. To increase the productivity, failures or breakdown to be minimized by knowing the possible remedies. Challenges of using lean grade ore, high ash coke, utilization fines, waste materials, enhancement of lining life, environmental degradation etc are the burning issues of modern iron and steel making. Therefore, the knowledge in this regard is very essential. Designing of this course considering the above said areas to improve the knowledge as well expertise in modern iron and steel making technology.

COURSE CONTENT

- Raw materials preparation for iron and steel making
- Beneficiation of raw materials and agglomeration
- Blast furnace iron making and its recent advancement
- Alternate routes of iron making process
- Primary steel making
- Clean steel making
- Modeling of steelmaking process
- Continuous casting and its recent development
- Hot deformation of steel
- Energy and Environmental management in iron and steel making

INVITED SPEAKERS

Prof.(Retd.) R.C. Gupta IIT(BHU), Varanasi
Prof. G.S. Gupta, IISc, Bangalore
Prof. D. Mazumdar, IIT Kanpur
Dr. J. Pal, NML, Jamshedpur
Dr. K.K. Prasad, (Retd.) RDCIS, Ranchi
Dr. A. Ganguly, Ex. Steel Chair Prof., NITD

IMPORTANT DATES

- Last date of Submission of filled Registration Form : **30.11.2019**
- Notification of Selection (by E-mail): : **02.12.2019**

REGISTRATION PROCEDURE

Duly filled-in "Registration Form" forwarded by the competent authority should reach the following address on or before **30.11.2019** along with the demand draft (in ORIGINAL) drawn in favor of "**CEP NIT Durgapur**" payable at Durgapur.

Address: Coordinator, IISTCR-2019,
Department of Metallurgical and Materials Engineering, National Institute of Technology Durgapur, Mahatma Gandhi Avenue, Durgapur-713209, WB, India.

REGISTRATION FEE

For Industry Personnel: Rs. 5000/-
For Faculty/ R& D organization: Rs. 3000/-
For Student: Rs. 2000/-
(Registration fees includes Kit, Tea, Snacks and Lunch)

ACCOMMODATION

Accommodation and travel expenses should be borne by the participants. Limited accommodation (Optional) may be availed at the Institute Guest House on payment basis and subject to availability. Participants can also arrange their own accommodation outside the campus. No TA/DA will be paid to the participants by the institute.

ABOUT THE INSTITUTE & SPONSOR

National Institute of Technology Durgapur (NITD) is a leading technical institute offering undergraduate, postgraduate and doctoral programs in various disciplines of engineering, technology, science, social science and management studies. The education system is holistic with equal importance being attached to all-round development of students. NITD was established as a Regional Engineering College Durgapur (RECD) in 1960 as a joint venture of the Government of India and Government of West Bengal. REC Durgapur was converted to NIT Durgapur under the full administrative and financial control of the Ministry of Human Resource Development of Government of India with a Deemed University status on 3rd July, 2003. Subsequently NITD has been given the status of a University by the UGC Act. The Institute was declared an Institute of National Importance by the Government of India on August 15, 2007. In this year institute is celebrating Diamond Jubilee. Technical Education Quality Improvement Programme III (TEQIP-III) is a world bank funded project aiming at improving the technical education of the country and uplifting the research quality. It helps to fund innovative projects in the academic institutions and developing laboratory facilities needed to pursue research activities.

ABOUT THE DEPARTMENT

The Department, which started its journey in the year 1960, presently offers B.Tech. (Metallurgical and Material Engineering), M.Tech. (Metallurgy and Materials Technology) and Ph.D. Program. The Department maintains high level of interactions with other academic institutes (IIT Kharagpur, Jadavpur University, IIST (Shibpur) and NIFFT (Ranchi)), CSIR Laboratories, SAIL and other steel plants in India. At present, thirteen highly qualified and dedicated faculty members are serving this Department. The research activities of the Department are centered on B.Tech., M.Tech. and Ph.D. program and sponsored research projects. Many research papers have been published in reputed peer reviewed Journals.