

**National Institute of Technology, Durgapur** (formerly Regional Engineering College, Durgapur), has a glorious past and illustrious present. It has its foundation in the Regional Engineering College, Durgapur, which was instituted to function as a pace setter for engineering education in the country and to foster national integration. It is a fully-funded premier technological Institution of the Government of India and is administered by an autonomous Board of Governors. Of late, Durgapur city has been under significant growth in industrial and educational sectors in view of techno-scientific progress. During the month of February-March the climatic condition in Durgapur is very pleasant. The average temperature is between 15 and 25 °C.

**Technical Education Quality Improvement Programme II (TEQIP-II)** 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. **Centre of Excellence (CoE) on Advanced Materials** was set up in NIT Durgapur under the funding of TEQIP-II for research and development of materials for advanced structural and functional applications.

### Course Theme

Our civilization needs a chronological development in science and technology for betterment of human society and materials are the building blocks of all kind of modern technologies. As a consequence, the field of materials science emerges as the leading subject of research and development. There is an utmost need to broaden our views to continue and carry forward the development of new generation materials. Therefore, processing, characterization and applications of modern materials need a thorough

review from experts in this field and subsequent transfer of the knowledge-base to various sectors of society.

In this context, Metallurgical and Materials Engineering Department of NIT Durgapur, under the aegis of CoE, TEQIP-II, will organize a five-day short term course on "**Processing, Characterization and Applications of Advanced Materials**" (PCAAM-2017). Practicing technologists in industries, academicians and researchers who require brushing up and enriching their knowledge on relevant issues will be benefitted immensely from the deliberations.

### Course Content

The proposed topics of discussion in the short term course include but not restricted to:

- Introduction to advanced Materials
- Different processing techniques of advanced materials
- Evolution of processing techniques
- Advanced casting techniques
- Powder metallurgy and solid state synthesis
- Chemical and electrochemical synthesis routes
- Modern X-Ray diffraction techniques
- Scanning electron microscopy
- Transmission electron microscopy
- Different field of applications

### List of speakers

Dr. S. Ghosh, Ex director, NML Jamshedpur  
Prof. PP Chattopadhyay, Director, NIFFT, Ranchi  
Prof. S.K. Pabi, Ex. Professor, IIT Kharagpur  
Prof. Rahul Mitra, Professor, IIT Kharagpur  
Prof. K. Das, Professor, IIT Kharagpur  
Dr. Kallol Mondal, Asso. Professor, IIT Kanpur  
Dr., SK Samanta, Principal Scientist, CMERI Durgapur

Dr. D. Ghosh, Principal Scientist, CMERI Durgapur  
Prof. KS Ghosh, Professor, NIT Durgapur  
Mr. RN Ray, Asso. Professor, NIT Durgapur  
Dr. J. Maity, H.O.D. and Asso. Professor, MME Department, NIT Durgapur  
Dr. S Pramanik, Asso. Professor, NIT Durgapur  
Dr. MM Ghosh, Asst. Professor, NIT Durgapur

### Eligibility for Participation

The program is open to engineering professionals from industries, faculties from Engineering Institutions / Universities, employees from R&D organizations, students and research scholars.

### Registration Fees

- 1) Participants from Industries: Rs 5,000/-
- 2) Participants from R&D organizations and faculty members from academic Institutes: Rs 2,000/-
- 3) Students/research scholars: Rs 1,000/-

### How to apply?

Filled-in Registration Form along with a demand draft in favour of "**The Director, N.I.T Durgapur**" payable at Durgapur should be sent to **Dr. S. Bera**, one of the coordinators of the course. The registration proforma may be photocopied, if necessary. **Registration fee can be paid by online transfer in the following account:**

Account no: 8569101002737

Account name: STC MME

Branch: Canara Bank, REC Durgapur

IFSC code: CNRB0008569

*\*Students must bring their identity card and attach a copy of it with the registration form.*

**Registration Form**  
**Short Term Course**  
**on**  
**Processing, Characterization and**  
**Applications of Advanced Materials**  
**(PCAAM-2017)**  
**(Under CoE, TEQIP-II)**  
**February 27-March 03, 2017**

1. Name:.....
2. Designation:.....
3. Organisation/Institution:.....  
 .....
4. Qualification:.....
5. Mailing Address:  
 .....  
 .....
6. Phone No.:.....
7. E-mail ID:.....

8. Category (Pl. tick):
- Industry
- Academic Institution / R&D Org.
- Student/research scholar
9. Details of D.D./Net banking:
- Amount.....
- Bank .....
- DD No. and Date: .....
- Reference no (net banking):.....

Certified that the above information's are true and correct to the best of my knowledge and belief.

Date: \_\_\_\_\_ Signature of applicant  
 Place: \_\_\_\_\_

Signature and seal of Head of the  
 Department/Institute

**ORGANISING COMMITTEE**

Patron : Prof. Asok De, Director, NIT Durgapur  
 Chairman: Dr. J. Maity, Head,  
 Metallurgical and Materials Engg. Dept., NIT Durgapur  
 Co-Chairman: Prof. K.S. Ghosh

Course co-ordinators: Dr. S. Bera  
 Dr. M.M. Ghosh  
 Dr. M. K. Mondal  
 Dr. M. Mallik

Treasurer: Dr. D. Mondal

Members:  
 Prof. A. Ganguly  
 Prof. S.K. Mitra  
 Mr. R. N. Ray  
 Dr. A. Bhattacharya  
 Dr. S. Pramanik  
 Dr. B. K. Show  
 Dr. B. Maji

**Address for Correspondence**

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**Dr. M. Mallik**  
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 e-mail: manab.mallik@mme.nitdgp.ac.in

**Important Dates**

**Last date for receiving registration form: 17.02.2017**  
**Date of confirmation: 20.02.2017**

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**February 27 – March 03, 2017**

*Organised by*



**Dept. of Metallurgical and Materials Engg.**  
**National Institute of Technology**  
**Durgapur-713209**