

## SHORT TERM COURSE on Advanced Materials & Nanotechnology

(AMN -2016)

20-24 June, 2016

### REGISTRATION FORM

- Name: .....
- Designation & Affiliation: .....
- Male/Female: .....
- Mailing Address: .....
- Telephone No.: ..... (R)  
..... (O)..... (M)
- E-mail ID: .....
- Highest Academic Qualification: .....
- Working Experience (In nos. of Years): .....
- Accommodation required\* (Y/N): .....
- Registration fees: DD/Cheque No. \_\_\_\_\_ Date \_\_\_\_\_  
Amount \_\_\_\_\_ (DD/Cheque should be drawn in favor of  
"NITD-PHYSICS-SAFM-2013", payable at Durgapur or transfer  
the registration fees to the account (A/C No. 33195988025, IFS  
Code: SBIN002108, A/C Name: NITD-PHYSICS-SAFM-2013).
- Vegetarian / Non-Vegetarian: .....

N.B.: Please ensure that all the fields (1 to 11) are properly filled-in and then duly signed. Photocopy of this form may also be used for registration.

Place : .....

Date : ..... Signature of the Applicant

Please send the completed application form together with the scanned copy of the demand draft to the Course Coordinator on or before June 05, 2016 by E-mail.

#### CORRESPONDING ADDRESS

Department of Physics

National Institute of Technology,

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#### INSTRUCTIONS FOR AUTHORS FORMAT FOR PREPARING ONE PAGE EXTENDED ABSTRACT

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#### ABSTRACT

The maximum page limit of extended abstract is one A-4 size page, including figures/ tables/ equations/ references typed in a double column preferably in MS Word. The title of the paper should be bold and in all capital, 12 point font size and in NEW TIMES ROMAN font.

#### I. INTRODUCTION

Authors should submit the Extended Abstract as mentioned on the rules document prior to the deadline. Names of the authors to be in 12 point font size, their addresses and text have to be in 10 point font size and in NEW TIMES ROMAN font. Presenting author is underlined. Single inter-line spacing should be used for the text portion. The short abstract is limited to 50 words only. The name of the corresponding author should be marked with superscript (Ⓜ). Please send the Extended ABSTRACT (doc files only, docx file is not acceptable) by e-mail attachment to. The Extended Abstract must be written in English. Text should be left and right justified in the page with 1 inch margin to each edge of the paper. Neither text, nor figures or tables should be printed outside these margins. Extended Abstracts are necessary for competition since they may be used for screening purposes, depending on the number of papers received. Please see judging criteria section on Competition Rules. Extended Abstract should be written following the format of MSWord. The student is required to write an extended abstract summarizing the results of his/her research.

All texts should be single spaced, in Times New Roman, 11pt font size consistently. The Extended Abstract begins with a short introduction and ends with a conclusion section. Do not use foot notes. References should be cited uniformly.1

#### II. RESULTS

All figures should be numbered consecutively and captioned. The caption title should be written centered, with upper and lower case letters. A space should separate the figure from the caption, and a space should separate the upper part of the figure and the bottom of the caption from the surrounding text. Figures may be included in the text or added at the bottom of the Extended Abstract.

#### III. CONCLUSIONS

##### Acknowledgement References

1. Elgha, F, and Mohraz, B., 1987. "Inelastic earthquake spectra," Earthquake Engineering and Structural Dynamics, Vol. 15, pp. 91-100.

## TEQIP-II Sponsored SHORT TERM COURSE

on

## Advanced Materials & Nanotechnology

(AMN -2016)

20-24 June, 2016



#### Course Coordinators:

Prof. A K Meikap

Dr. S Basu

Dr. S Sahoo

### Department of Physics

#### NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR

Mahatma Gandhi Avenue, Durgapur - 713209, W.B., India

Mobile: 9434788060, 9434788061 & 9434788198

Website : www.nitdgp.ac.in

#### DEADLINES:

Submission of Registration form for Participation in the course: June 05, 2016

Submission of Abstract (optional) for Poster Presentation: June 05, 2016

#### THE INSTITUTE

National Institute of Technology Durgapur (NITD) is a leading technical institute offering undergraduate, postgraduate and doctoral programmes in various disciplines of engineering, technology, science, social science and management. The education system is holistic with equal importance being attached to all-round development of the students. NITD was established as a Regional Engineering College (REC) 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.

The city of Durgapur is recognized as one of the fastest developing Tier-II cities in the national scenarios. Durgapur is situated at a distance of about 180 KMs from Kolkata. It is located right on the major railway and expressway (NH-2) connecting Kolkata to Delhi and Durgapur can be reached from Kolkata (and vice versa) in ~ 2 hrs. 30 mins.

#### THE DEPARTMENT

Department of Physics of NIT Durgapur is one of the oldest and leading Departments in terms of research activities and sponsored projects. The Department, over the years, has successfully completed a number of MHRD, AICTE, DAE and DST Research and Development projects as well as a number of sponsored projects. Recently the department has received a number of sponsored projects from DST, DAE, CSIR etc. A good number of Ph.D. degrees have been awarded under the supervision of the faculty members of the Department and a number of students are working at present for their Ph.D. degrees. Theoretical and experimental investigations are being carried out in the frontier areas like Nanoscience, Carbon Nanotubes and Graphene, CNT Hybrids and Composites, MD Simulation of Nanomaterials, Nanophotonics, Nonlinear Optics, Conducting Polymers, Nanocomposites and Thin Films, Magnetic Ferrite Materials, Nonlinear Dynamics, Liquid Crystals, High Energy Physics etc. The Department of Physics offers basic courses in Engineering Physics, Engineering Thermodynamics, Materials Science, Semiconductor Physics, Nuclear Reactor Physics etc. The Department also offers M.Sc. (Physics) and M. Tech. (Advanced Materials Science and Technology) courses. Many students who have received their M.Tech. degrees from this Department are serving now in different Institutes of higher learning in India.

#### ABOUT THE SHORT TERM COURSE AMN - 2016

Materials are the building blocks of the world that we live in today and hence study of materials has always attracted scientists and engineers across the globe. Knowledge of their structure, properties and synthesis methods is therefore, fundamental to economic, social and industrial development. To fulfill various societal needs and demands we have always looked for new materials. With the rapid growth in the life style of human in the last few decades the thrust in research of materials has only increased. This thrust for new materials has led the researchers to discover various advanced materials including nanomaterials, fullerenes, carbon nanotube,

graphene etc. each offering unique applications. It is therefore, very important that the researchers working in the field of advanced materials are equipped with the right knowledge of modern tools and methods used in materials processing and characterization. In recent years nanotechnology has become one of the most important and exciting forefront fields in Physics, Chemistry, Engineering and Biology. It shows great promise for providing us in the near future with many breakthroughs that will change the direction of technological advances in a wide range of applications.

The primary goal of AMN-2016 is to present state-of-the-art research, recent achievements and global trends in advanced materials and nanotechnology and to promote cross-disciplinary interactions that can spur the development of this exciting materials research field. This short-term course is aimed to bring together the beginners and the experts working in the field of advanced materials and nanotechnology (both theory and experiment) in a common platform such that the researchers and technologists from both academia and industries get an opportunity to have face-to-face interaction with fellow participants and the experts. In addition, the participants are also likely to get first-hand experience of various modern methods and techniques used in materials synthesis and characterization of their properties during the course.

Besides the invited talks by the resource persons, there will be poster presentations covering the theme of the course.

#### TOPICS TO BE COVERED

- Nanocomposites
- Nanomaterials for Biomedical applications
- Conducting polymer Nanocomposites
- Multiferroics
- State of the art characterization techniques
- Photonics nanomaterials
- Disordered materials
- Carbon base nanomaterials
- Spintronics

#### RESOURCE PERSONS

The resource persons constitute experts/senior faculty members from NIT Durgapur and various guest speakers from other reputed institutions and industries including IIT, CSIR Laboratories, Research Institutes, Universities, BARC Mumbai etc.

#### WHO CAN ATTEND AMN - 2016

AMN-2016 is aimed to attract and bring together Faculty Members, Scientists, Engineers, Technologists, Research Scholars and PG students from Academic and Research Institutions and Industries recognized by AICTE, UGC, equivalent. The participants will benefit immensely and will get new insights and knowledge about the topic through close interactions/discussions with the Senior Faculty Members/Scientists and Experts of the respective field during the lecture sessions as well as in some laboratory sessions.

#### BOARDING & LODGING

Boarding, lodging and travel expenses shall be borne by the participants. Limited shared accommodations are available in the Institute Guest House on first come first served basis. Several good hotels are available in and around Durgapur. Participants may contact directly or through the coordinator(s) for accommodation in Hotels. No TA/DA will be paid to the participants by NIT Durgapur.

Category	Early Bird registration (Before June 05, 2016) INR	Late Registration (After June 05, 2016) INR
Faculty/ Staff Member of Academic Institutes	4000	5000
Research Scholars	2500	3000
PG Students	1500	2000
Scientist from Industries	6000	8000

Registration fee includes study/lecture materials, refreshment and lunch for 5 days during the course.

#### Organizing Committee

Patron: Prof. A. De, Director, NIT Durgapur

#### Advisory Committee:

Prof. S. Chattopadhyay, Dean (R&C)

Prof. K. C. Ghanta, Coordinator TEQIP-II

#### Course Coordinators:

Prof. A K Meikap

Dr. S. Basu

Dr. S. Sahoo

#### Members:

Prof. P. Kumbhakar, Dr. A. K. Chakraborty, Dr. M. K. Mandal,  
Dr. H. Chaudhuri, Dr. A. Mondal

#### Important Dates:

Submitting Registration form for Participation in the course:  
June 05, 2016

Submission of Abstract (optional) for Poster Presentation: June  
05, 2016.

Those who are not willing to present their paper they are also  
invited to attend the short term course.

Guidelines for preparing the Extended Abstract & Display of  
Poster

A word file of the Title (font size 14, bold, centered, Times New Roman), author's name(s), affiliation, email id, followed by an extended abstract text (font size 12, single space, Times New Roman) NOT exceeding one page (including graphics /figures/tables/references etc) on A4 size paper with one inch margin on each side may be sent by e-mail. Participants are requested to prepare the abstract by using the TEMPLATE. The template format is given below. 1m×1m space will be provided for display of each poster in poster session.