



**6<sup>th</sup> NATIONAL CONFERENCE**  
**on**  
**NANOSCIENCE AND INSTRUMENTATION TECHNOLOGY**  
**March 29-30, 2018**  
National Institute of Technology, Kurukshetra-136119, Haryana

**Patron**

**Dr Satish Kumar**  
Director

**Chairperson**

Neena Jaggi  
+91-9896197827

**Convenors**

Ashavani Kumar  
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**Coordinators**

Anurag Gaur  
Prakash Chand  
Ashok Kumar

**Co-coordinators**

C. R. Mariappan  
Y. Dwivedi  
A. K. Tripathi

**Advisory Committee Members**

Prof. R K Sinha, Director,  
*CSIO Chandigarh*  
Prof. S. R. Vadera,  
*Director, DRDO Jodhpur.*  
Prof. B. R. Mehta,  
*IIT, Delhi.*  
Prof. G. D. Varma,  
*IIT, Roorkee.*  
Dr. A. K. Paul  
*Ex-CSIO, Chandigarh.*  
Prof. A.Minitil Baral  
*Dean (FW) NIT, KKR*  
Prof. K.S.Sandhu  
*Dean (Acad.) NIT, KKR*  
Prof. Brahmjit Singh  
*Dean(R&C) NIT, KKR*

**INTRODUCTION**

Department of Physics, National Institute of Technology, Kurukshetra is organizing **6<sup>th</sup> National Conference on 'Nanoscience and Instrumentation Technology' (NCNIT-2018)** during March 29-30, 2018. Nanomaterials play key roles in science and technology in 21<sup>st</sup> century. The objectives of this conference series are to provide an interdisciplinary forum for Scientists, Engineers, Technologist and Industrialist engaged in the full spectrum of research & development, applications and to discuss the current status and recent developments of instruments through these materials. In addition, the conference will provide excellent opportunities to review the recent development and technological applications covering wide range of topics. Themes have been selected to accommodate wide range of interests to facilitate interdisciplinary interactions in academic fields and technology / industry.

Established in 1963, the Institute is one of the top ranking institutes for engineering and technology education in the country. The Institute was conferred upon the status of Deemed University on June 26, 2002 and declared an Institution of National Importance by MHRD, Govt. of India on June 6, 2007.

**ABOUT KURUKSHETRA**

Kurukshetra-the land of the Mahabharata where the quest for wisdom and absolute started with the rendering of sermon by Lord Krishna and also known as Dharmakshetra. The famous tourist spots are Brahasarovar, Jyotisar, Dharohar, Shek Chehli's Tomb, Panorma, Sannihit Sarovar, Kalpana Chawala Planitarium, etc. In addition to its spiritual significance, the town has steadily developed into a centre of academic excellence. Kurukshetra is a railway junction on the Delhi-Ambala section of the Northern Railway. It is about 160 kms from Delhi. The Institute is situated on the Pehowa Road, about 6 kms from the Railway station Kurukshetra. The nearest road junction is Pipli which is on the National Highway No.1 (Sher Shah Suri Marg). The Institute is about 10 kms from Pipli.

**ABOUT THE PHYSICS DEPARTMENT**

Fundamental principles of Physics are to form the base for Engineering and Technology; therefore, the Department aims at providing the necessary knowledge of Physics to the young engineers. The Department offers curricula consisting of basic principles of Physics besides emerging areas of Technology to the 1st and 2nd semester students of all B. Tech branches while a number of courses are offered as Non Departmental Electives in the 7th & 8th semesters as well. The Department also runs two M.Tech. programmes specialized in Instrumentation and Nanotechnology and offers Ph.D. in different areas to keep synergy with the evolving innovations and developments in various fields of experimental and theoretical Physics, materials science and nanotechnology.

For this purpose, the Department has various sophisticated instruments/facilities in Optical Instrumentation, FTIR spectroscopy, SPM, SEM, Dielectric spectroscopy, XRD, XRF as well as instruments for the measurements of electrical properties etc. The faculties hold various R & D Projects and also deliver various expert lectures on different platforms.

**Website: [www.nitkk.ac.in](http://www.nitkk.ac.in) E-mail: [ncnit2018@gmail.com](mailto:ncnit2018@gmail.com)**



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**TOPICS OF THE CONFERENCE**

The research papers for the conference are invited based on original work on the following broad topics/areas:

- Nanotechnology for energy and environment
- Synthesis of nanomaterials
- Carbon nano tubes and nanocomposites
- Nano-electronics and nano-magnetics
- Microscopic techniques
- Instrumentation for characterization
- Polymers and Polymer composites
- MEMs, NEMs and Nano/ Bio sensors
- Sensors and Instrumentation
- Radiation Detectors
- Simulation and modelling
- Image Processing

**GUIDELINES FOR AUTHORS**

Contributed papers on original and unpublished research work are invited on the topics mentioned above. Submit one page abstract of the paper highlighting the results of your work with word limit 200-250. The abstract should be typed in the format as given in the template on A4 size paper with normal margins according to abstract template. The name of the presenting author should be marked with an asterisk (\*) along with e-mail ID. The decision for the oral/poster presentation will be strictly followed as per approval of the technical programme committee. Submit only the electronic copy of the abstract at the e-mail address [ncnit2018@gmail.com](mailto:ncnit2018@gmail.com).

Research papers presented in the conference will be published in UGC approved journals after peer review. The template of the paper will be sent to the authors in due course.

**IMPORTANT DATES**

- **Last date for submission of abstract: March 10, 2018**
- **Notification of acceptance: March 15, 2018**
- **Submission of full paper: At the time of conference**
- **Registration starts on: March 15, 2018**

**REGISTRATION FEE**

Student delegate	Rs. 1500
Delegate from Academic Institutions	Rs. 2500
Delegate from Industry	Rs. 5000

The registration fees to be paid through Demand Draft in favour of, '**Director, National Institute of Technology, Kurukshetra**' payable at **Kurukshetra or Cash at the time of registration.**

**ACCOMMODATION**

Limited accommodation is available in the Institute guest house and hostels on payment basis. There are good hotels nearby the Institute; reservation can be made in advance on request.

**Website: [www.nitkk.ac.in](http://www.nitkk.ac.in) E-mail: [ncnit2018@gmail.com](mailto:ncnit2018@gmail.com)**

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**REGISTRATION FORM**

- 1) Name :
- 2) Designation :
- 3) Institution/Organization :
- 4) (a) Address for Communication :
- (b) E-mail :
- (c) Contact No. :
- 5) Registration Fee Details :
- (a) Amount :
- (b) DD No. & Date :
- (c) Name of the Bank :
- 6) Accommodation required (Y/N) :  
(Please specify the dates)
- 7) Presenting paper (Y/N) :

Note: The **registration fees** to be paid through **Demand Draft** only in favour of, **‘Director, National Institute of Technology, Kurukshetra’** payable at **Kurukshetra** or **Cash** at the time of registration.

**(Signature of the candidate)**

Please send the registration form along with DD to the following address:

**HOD/Coordinator - NCNIT 2018**  
**Department of Physics**  
**National Institute of Technology Kurukshetra**  
**Kurukshetra 136119 Haryana**

## **The Title of the Abstract For 6<sup>th</sup> National Conference On Nanoscience and Instrumentation Technology**

First Author<sup>1\*</sup>, Second Author<sup>2</sup>, Third Author<sup>3</sup>

<sup>1</sup>*Name of the First Organization with address.*

<sup>2</sup>*Name of the Second Organization with address.*

<sup>3</sup>*Name of the Third Organization with address.*

*\*Email: email address of the corresponding author*

This page provides guidelines for submitting an abstract in the conference. The text is itself an example of the layout and style required for the **one page with word limit 200-250 words**. The abstract will be published in the abstract proceedings of the conference when selected for presentation. Documents must be submitted in electronic format as a Microsoft Word file (\*.doc /\*.docx). Carefully check contents and format of your article before submitting (it will appear in the published document in exactly the same form). Times New Roman is the recommended typeface for all the text. The title should be in boldface letters and centred across the top of the page using 14-point type. The title will be followed by Author Name(s) centred and in 12-point type and Affiliation(s) in 10 point, italicised type. The name of the presenting author has to be underlined. Please mention the email address of the corresponding author below affiliations and leave a blank line after that. **Type size for all text in the body of the abstract has to be 11 –points with 1.5 line spacing**. Please do not put numbers, running footers or headers on the page. References, if required, should be collected at the bottom of the page in 11-point type (italics). Please send your abstract latest by **March 10, 2018**. Communications regarding the Conference will be sent to the corresponding author only.