

Important Dates

Last date for submission of abstract: **November 18, 2021**

Submission of full paper: **At the time of conference**

Registration till : **November 18, 2021**

Registration Fee

Students Delegates	Rs. 250
Delegates from Academic Institutions	Rs. 500

Participants can pay registration fees via **SBI Collect**.

Login to **SBI Collect** → fill State of institution: **Haryana**; and Type of institution : **Educational Institution**; → Educational Institution name: **Director National Institute of Technology Kurukshetra** → **Submit**; select Payment Category: **NCNIT2021** and fill the registration form.

Selected articles will be published in conference proceedings with ISBN numbers. Please regularly check website <http://www.nitkkr.ac.in/> for updates.

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9th NATIONAL CONFERENCE

on

NANOSCIENCE AND INSTRUMENTATION TECHNOLOGY (NCNIT-2021)

November 20-21, 2021 (online mode)



Organized by

Department of Physics

**National Institute of Technology
Kurukshetra-136119, Haryana, India
(Institute of National Importance)**

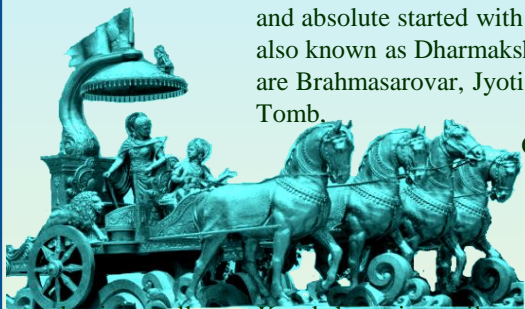
INTRODUCTION

Department of Physics, National Institute of Technology, Kurukshetra is organizing 9th **National Conference on ‘Nanoscience and Instrumentation Technology’ (NCNIT-2021)** during **November 20-21, 2021**. Nanomaterials play key roles in science and technology in 21st 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.

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 Brahmasarovar, 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.

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 semester 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.

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 nanotubes & nanocomposites
- ❖ Nano-electronics and nano-magnetics
- ❖ Microscopic techniques
- ❖ Photonics and Optoelectronics
- ❖ Laser characterizations and Instrumentation
- ❖ Polymers and Polymer-composites
- ❖ MEMs, NEMs and Nano/Biosensors
- ❖ 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 presentation will be strictly followed as per approval of the technical program committee. Submit only the electronic copy of the abstract at the e-mail address **ncnit21@gmail.com**.

Research papers presented in the conference will be published in Scopus/SCI listed journals or conference proceedings with ISBN number after peer review.

