

Patron
Prof. B. V. Ramana Reddy
Director, NIT Kurukshetra

Convener
Prof. Neena Jaggi

Professor and HOD, Department of Physics

Course Coordinator

Dr. Yashashchandra Dwivedi

Department of Physics

Members

Prof Ashavani Kumar

Prof. R. P. Chauhan

Course Co-Coordinator

Dr. T. S. Saini

Dr. K. L. Ganapathi

Dr. Prakash Chand

Dr. Awanish Tripathi

Dr. T. Majhi

About NIT Kurukshetra

National Institute of Technology, Kurukshetra, formally known as Regional Engineering College, was established in 1963. The Institute was conferred upon the status of Deemed University on June 26, 2002. Recently, the Institute has been declared an Institution of National Importance by MHRD, Govt. of India. Institute has B.Tech, M.Tech., MBA and MCA Courses in various disciplines with annual intake of about 1600 students. Institute also offers excellent facilities for advanced research in the emerging areas of Science and Technology leading to Ph.D. degree. The Institute has well qualified and dedicated faculty along with finest supporting staff, laboratories and other infrastructure.

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 Dharmshetra. The famous tourist spots are Brahmasarovar, Jyotisar, Dharohar, Panorma, etc. The town has slowly transformed into not just a place of spiritual significance but also a hub of intellectual achievement.

Dr. Y. Dwivedi

yashjidwivedi@nitkkr.ac.in

01744-233503, 01744-233494, Mobile: 9896004119



One week short-term course

on

Photonic Devices and Spectroscopic Techniques for Materials Analysis

February 20-26, 2022

Organized by

Physics Department,

National Institute of Technology Kurukshetra

Kurukshetra, Haryana



About Physics Department

In addition to fundamental Physics courses for B. Tech. students, Department of Physics runs two M. Tech. programmes (four-semester) in Instrumentation and Nanotechnology and Nanomaterials. Department offers Ph.D. in different areas to keep synergy with the evolving innovations and developments in various fields of experimental and theoretical Physics. The department has highly sophisticated instruments facilities for advance research. The faculty members of department hold many research projects sponsored through SERB, DST, CSIR, DRDO, UGC and BRNS etc.

Theme of Course

Engineering materials constitute the foundation of technology, whether the technology pertains to structural, electronic, thermal, electrochemical, environmental, biomedical or other applications. This short term course will include detailed expert lectures and training on such engineered materials including photonics and composite materials. The objective of this course is to extend the basic and advanced training to young faculty and researchers about basics of composite material synthesis and characterization techniques. Additionally, photonics technology is now spanned in frontline diverse fields including defense, environment, biomedical, sensor etc considered a major area of discussion.

Objectives and content

Short term course will bring opportunity to learn various spectroscopic and photonics techniques in addition to the synthesis of composite nanomaterials. This course will provide hand on various instruments including Electron microscopy (Scanning electron microscope), Confocal microscope imaging and Scanning probe microscopy, XRD, etc. Objectives of the course work is to motivate the scientific community especially the young generation toward efficient use of various analytical techniques available with today's state-of-the-art instruments with their capabilities of monitoring image and spectrum and bringing out material information down to atomic scale. The main thrust of the course work is to review and analyze cutting edge research trends in Spectroscopy, material science and Photonics. Course will serve a forum for researchers to interact and to identify emerging future areas of growth in these fields

Who Should Attend

Faculty/research scholars/PG Students from academic institutes and Scientists/Engineers working in Private/Public/Government organizations/ Industries, Research & Development establishments etc. can attend this course. Accommodation can be arranged in hostel/guest house on payment basis subject to the availability. No TA/DA will be paid to the participants. Participants will be selected on first-come-first serve basis up to a maximum of 30 (Outside NIT).

Registration fee	
Student (PG, Ph.D.)/Postdoc	Rs. 5,00/-
Faculty/Scientists	Rs. 2,000/-

The online registration form (<https://forms.gle/yoyfncXvGFJ8KVoQ7>) complete in all respects (including fee receipt) should filled on or before **February 15, 2023**.

Registration fee is to be paid in advance through SBI ecollect (IFSC Code: SBIN0006260).

Procedure Step1: <https://www.onlinesbi.com/sbicollect/icollecthome.htm> Accept & Proceed, Step2: Select State and Type of Corporate/Institution (Haryana and Educational Institutional); Step3: Select from Educational Institutions (DIRECTOR NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHER) Step4: Select Payment Category (PDSTMA-2023), Proceed (Fill the details & Submit) (Please mentions Receipt No. in following section).

The brochure with registration form can be downloaded from Institute website www.nitkkr.ac.in

Last Date of Registration	February 15, 2023
Course dates	February 20-26, 2023

Dr. Y. Dwivedi, Department of Physics

National Institute of Technology Kurukshetra-136119 (Haryana)

Email: yashjidwivedi@nitkkr.ac.in

Ph. 01744-233503, 01744-233494, Mobile: 9896004119

<https://sites.google.com/view/stc-phy-nitkkr/home?authuser=2>

