



FIVE DAYS FACULTY DEVELOPMENT PROGRAM ON
RECENT ADVANCES, TRENDS AND CHALLENGES IN
**NANOMATERIAL CHARACTERIZATION
TECHNIQUES (RCNMCT-2023)**

DATE: 25th TO 29th SEPTEMBER 2023.

TIME: 14 hrs – 16 hrs

VIRTUAL MODE LINK

<https://kluniversity.webex.com/kluniversity/j.php?MTID=m9af920b92db511e1fa0fe8bdb063040d>

WEBINAR NUMBER: 2642 563 1208

WEBINAR PASSWORD : Q4869BYJM3I

ORGANIZED BY:

Department of Physics,

Koneru Lakshmaiah Education Foundation

Green Fields, Vaddeswaram, Vijayawada, Andhra Pradesh, India

About - Koneru Lakshmaiah Education Foundation (Deemed-to-be University), Vaddeswaram, Vijayawada

The Koneru Lakshmaiah Charities was established as a trust in the year 1980 with its official address at Museum Road, Governerpet, Vijayawada, Andhra Pradesh, India and started KL College of Engineering in the Academic year 1980-81. KLEF was established in 1980-81, as KL College of Engineering, which was upgraded to KL College of Engineering Autonomous in 2006 by UGC and was declared as a Deemed to be University in 2009 by UGC, MHRD Govt. of India. NAAC assessed the University and accredited for a period of five years from 2018 to 2023 with CGPA of 3.57 with A++ grade. In 2019 UGC, MHRD declared this intuition as Category 1 status. Research has taken a quantum step towards quality improvement through publishing in IEEE / SCI Indexed journals building an h-Index of 52 at the moment. KLEF has established an ecosystem to promote innovations including a center for Innovation, Incubation and Entrepreneurship development leading to start-ups in different disciplines. The University was also ranked 27 under NIRF 2022.

About Department of Physics

The Department of Physics was established in the year 1980. The department offers M.Sc. Physics, Nanoscience Technology, and Ph.D. programs. The department is functioning with 12 Doctoral Faculty Members. Research work in the department is being carried out in various fields like Material Science, Solar Energy, Nanotechnology, Space & Atmospheric Science, Theoretical and Computational Physics and Ultrasonic's. The department had 3 fully equipped research labs of worth Rs. 3.crore. The department is recognized as DST-FIST Level 1 department with grant of Rs.107 lakhs by the Department of Science and Technology, Govt. of India, New Delhi. The department also has good number of sponsored research projects of worth Rs. 3 crores under DST woman scientist scheme, young scientist scheme, early career research award and SERB-Start up research grant. Faculty members of our department have published more than 300 research publications in highly reputed international journals with high impact factor.

About Program

As this is a five-day program with an objective to be achieved on each day. The 5-Day FDP aim at the objectives followed: To provide an overview of nanomaterials and their significance in various fields, by exploring the recent advances in nano materials characterization techniques, with a discussion on the emerging trends in the field of nano materials characterization. This leads to identifying and addressing the challenges associated with nano materials characterization. Finally, this help to initiate the joint research activities, exchange ideas among scholars, faculty, and industrial experts. This can act as steppingstone for post graduate students to pursue their internship in the industry. This FDP encourages the teachers to become a change agent by adopting technical skills, on par with national and global standards.

DOMAINS TO BE COVERED

- X-ray diffraction (XRD)
- UV-Vis Spectroscopy (UV-Vis)
- Energy-dispersive X-ray spectroscopy (EDX, EDS)
- Fourier transform infrared spectroscopy (FTIR)
- Raman Spectroscopy (IR)
- Nuclear Magnetic Resonance spectroscopy (NMR)
- X-Ray Fluorescence (XRF)
- X-Ray Photo Electron Spectroscopy (XPS)
- Optical Microscopy (OM)
- Scanning electron microscopy (SEM)
- Transmission electron microscopy (TEM)
- Atomic force microscopy (AFM)
- Differential thermal analysis (DTA)
- Thermo gravimetric analysis (TGA)
- Binding Energy Gap (Eg)
- Electrical conductivity (I_g)

CHIEF PATRONS

Er. Koneru Satyanarayana

Chancellor, President, KLEF

Er. K. L. Havish

Vice-President, KLEF

Er. K. Raja Hareen

Vice-President, KLEF

PATRONS

Dr. K. S. Jagannatha Rao
Pro-chancellor, KLEF

Dr. G. P. S. Varma
Vice-Chancellor, KLEF

Dr. A. V. S. Prasad
Pro Vice-Chancellor-I, KLEF

Dr. N. Venkatram
Pro Vice-Chancellor-II, KLEF

Dr. K. Subba Rao
Registrar, KLEF,

Dr. A. Jagadeesh
Director - FED, KLEF

Dr. B. Jayakumar Singh
Dean R&D, KLEF

Dr. A. Srinath
Dean Skill & Student Progression, KLEF

Dr. K. Ramakrishna
Dean - Quality, KLEF

Dr. M. Kishore Babu
Dean MHS, KLEF

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Principal College of Sciences, KLEF

Dr. T. K. Rama Krishna Rao
Principal, KL College of Engineering, KLEF

Dr. M. Siva Ganga Prasad
FED, Coordinator, KLEF

Dr. A.S.C.S.Sastry
Controller of Examinations, KLEF

Convener

Dr. S. Shanmugan,
Dr. M.V.V.K. Srinivas Prasad

Co- Convener

Dr. G. Sunita Sundari
Dr. Sonali Biswas

FDP Chairman

Dr. K. Swapna

Organizing committee members

Dr. N. S.M. P. Latha Devi
Dr. Shaik Mahamuda

Dr. Kanike Raghavendra Kumar
Dr. M.Venkateswarlu

Dr. Shaik Babu
Dr. A. Venkateswara Rao

Dr. M. Gnana Kiran

SPEAKERS

Dr. Mohamad E. Zayed,

Professor, Mechanical Power Engineering Department,
Tanta University, Tanta, Egypt.

Dr. Balasubramanian Rukmanikrishnan,

Research Fellow at Singapore University of Technology
and Design (SUTD), Singapore.

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Professor, Mechanical Power Engineering Department,
Mansoura University, Mansoura, Egypt

Dr. Srinivas Rao Allam,

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Dr. Hitesh Panchal,

Professor, Department of Mechanical Engineering,
Government Engineering College, Patan.

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Pune, Maharashtra.

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Shri Sadguru Gangagir Maharaj Science College,

Dr. Ravinder Kumar,

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Dr. K. Punithamoorthy,

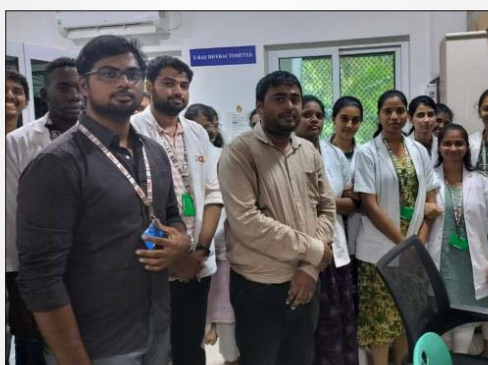
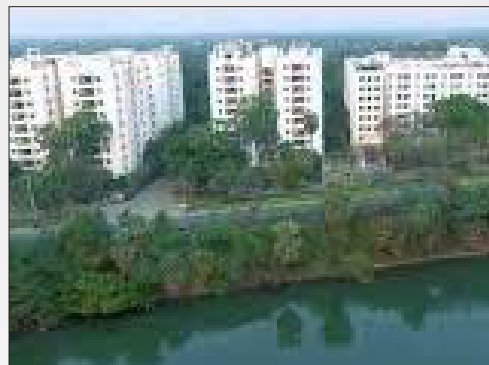
Professor, Research centre for nanotechnology in
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TamilNadu.

Dr. V. Chithambaram,

Professor of Physics, Karpaga Vinayaga College of
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KLEF PHOTOS





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Registration Details

No Registration Fee

Mode of Registration through Google form with the following link

<https://forms.office.com/r/VAQrczrizd>

Last Date for Registration 24/09/2023