

REGISTRATION

Registration FEE:
Faculty & Scientists Rs.900/-
Research Scholars: Rs.700/-

Last Date for Registration:
24-10-2022

Google Form link for Registration:
<https://forms.gle/7M4TuAVzRzyeiSNUA>
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Two-Day National Seminar

On

Innovations in Physics of Molecules and Materials (IPMM-2022)

on

28th & 29th October, 2022



BROCHURE



(Re-accredited with NAAC 'A' Grade)

Organized by the

DEPARTMENT OF PHYSICS

(UGC-SAP-DRS-II Recognized Department)

KAKATIYA UNIVERSITY

WARANGAL- 506 009 Telangana State, India.

Sponsored by



ABOUT THE NATIONAL SEMINAR

This seminar will cover recent developments in Physics, Technology and Applications of emerging molecules and materials. Molecular Spectroscopy has become an important tool to explicate the molecular structure and dynamics. The spectroscopic investigations of Biomolecules have become inspiration for pharmacologist and chemists to find the relationship between structure and biological activity. Materials science is Technological potential and practical relevant area of Research and Development from fundamental and application point of view. The aim of this seminar is to hold an open deliberation on the emerging state of the art of molecules and materials for research and development. The seminar is aimed at bringing the scientific and technical community together to share their knowledge with the participants. It is focused to provide the participants a complete knowledge in the emerging areas of molecular and material physics to be covered in the seminar. This seminar is organized to motivate the faculty and young researchers from science and engineering towards high quality research. Scientific and Technical talks will be delivered by eminent scientists and academicians from various research institutes and universities.

Scope of the Seminar :

- ❖ Spectroscopy and molecular Dynamics
- ❖ Thin films
- ❖ Liquid crystals
- ❖ Metals, composites, Ceramics and Glasses
- ❖ Nanomaterials
- ❖ Polymeric materials
- ❖ Crystal Growth and Characterization
- ❖ Luminescence studies

ABOUT THE DEPARTMENT

The Department of Physics at Warangal was started in June 1968 at Post graduate centre of Osmania University. The P.G Center was upgraded into Kakatiya University in August 1976. The first Vice Chancellorship of this university was Late. Prof. K. VenkataRamaiah (Professor of Physics). The department of Physics offers teaching programmes viz. at the B.Sc. at University Arts and Science College and M.Sc., and Ph.D. Programmes at the Department in University college. The Department has vigorous ongoing research programmes to train Ph.D. scholars and has achieved National and International recognition in the areas of Molecular Spectroscopy, Condensed Matter Physics, Theoretical Physics, Solid State Physics, Nuclear Physics and Materials Science. The specific areas of research include vibrational spectroscopy, DFT computations, Crystal growth and characterization, Magnetic Materials, Phase Transitions, Glasses and Ceramics, Liquid crystals, Thinfilms, Semiconductors, Nano structured materials and Ferroelectrics. Besides developing its own research programmes, the department has strong interaction with National and international Institutes/ laboratories.

The department has been selected by the U.G.C. under SAP at DRS I & II level to strength teaching and research Programmes through the financial assistance. The testimony of these efforts and hard work is measured in terms of Quality research Publications in reputed National and International Journals. The students after the completion of M.Sc. course are leaving the portal of the Department with great confidence. The Department is a vigorous one with all its academic activities. It has organized number of National seminars, Symposia and workshops. Nonteaching staff is also played a vital role in the growth and development of the Department.

ABOUT THE UNIVERSITY

Kakatiya University was established in sprawling 672 acres of land adjoining Warangal city to serve the educational needs and its inception has heralded the long-cherished aspiration of the rural people of Northern Telangana. In an effort to give impetus to the educational, research and faculty exchange programmes with foreign universities, the University has entered MoU with many foreign Universities and Institutions.

The University has now 27 departments on the campus with a network of eleven constituent colleges and 471 affiliated colleges. It is offering about 157 programmes at undergraduate and post graduate level in the faculties of Arts, Science, Commerce, Education, Pharmaceutical Science, Law and Engineering.

The university has hoisted its flag high in the area of sports and games at national level. Social activities taken by National Service Scheme (NSS) brought laurels to the University at national level. In the fitness of things, aptly the University was accredited with 'A' grade by NAAC in 2017.

NIRF identifies the University as the Mentor University and also has UI Green Metrics.

Established P.V. Narsimha Rao Centre for the Promotion of Social and Economic Reforms.

Recently, University is conferred with best NSS award-2021 and received from Hon'ble President of India.