



(DEEMED TO BE UNIVERSITY)



Department of
Physics

**45 YEARS OF
EDUCATIONAL
LEADERSHIP**



**RANKED 26
AMONG ALL
UNIVERSITIES**

International Conference on

Advanced Functional Materials & Quantum Sciences for Sustainable & Smart Technologies

(AFMQSST-2025)

Koneru Lakshmaiah Education Foundation
(Deemed to be University)

Vaddeswaram- 522302, Andhra Pradesh, India.

<https://www.kluniversity.in/>

KONERU LAKSHMAIAH EDUCATION FOUNDATION (KLEF)

The Koneru Lakshmaiah Charity was established as a trust in the year 1980 with its official address at Museum Road, Governerpet, Guntur District, 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. In 2019 UGC, MHRD declared this institution as Category 1 status. Research has taken a quantum step towards quality improvement through publishing in Scopus / SCI Indexed journals building an h-Index of (104 Scopus, 80 WoS) at the moment. KLEF has established an ecosystem to promote innovations including a centre for Innovation, Incubation and Entrepreneurship development leading to start-ups in different Disciplines. The University was also ranked 26 under NIRF 2025.

About Department of Physics

The Department of Physics was established in the year 1980. The department offers M. Sc Physics and M. Sc Nano Science & Technology, and Ph.D. program in interdisciplinary research areas. The department is functioning with 13 highly experienced and qualified Doctoral faculty obtained Ph.D.'s from reputed National Institutions/Universities. Faculty are also having post-doctoral research experience from different countries over several years. Research work in the department is being carried out in various fields like Materials Science, Solar renewable energy, Nanotechnology, Space and Atmospheric Science, Theoretical and Computational Physics, Ultrasonic's and chemical thermodynamics. The department had 4 fully equipped sophisticated research labs of worth Rs. 3.5 Crores. The department is recognized as DST-FIST Level 1 department with grant of Rs.107 lakhs funded by the Department of Science and Technology, Govt. of India, New Delhi. The department also granted with good number of sponsored research projects of worth Rs. 3 crores under different schemes such as DST woman scientist scheme, young scientist scheme, early career research award, SERB-Start up research grant, Core research grant and international travel support. Recently the department of Physics and ECE bagged with a sponsored research project worth of Rs. 7 crores under DST-PURSE scheme to enhance infrastructure and research facilities in the university. The department has published more than 500 research publications in highly reputed international journals with high impact factor. The department faculty have published 20 patents and book chapters. Faculty from the department awarded with Associate Fellow of A.P Academy of Sciences, Amaravathi. The department faculty recognized as Top 2% renowned scientist in the world awarded by the Stanford University, California, USA.

IMPORTANCE AND SCOPE OF THE CONFERENCE

Objectives:

The objectives of the proposed International Conference “Advanced Functional Materials and Quantum Sciences for Sustainable and Smart Technologies AFMQSST 2025” is to create a conducive platform for researchers, scientists, engineers, and scholars to culminate these two fields to accelerate sustainable and technological breakthroughs. AFMQSST 2025 will try to exchange ideas on top notch research in designing and synthesizing novel functional materials with tailor made properties for addressing challenges in sustainability, like refining energy efficiency and resource management. AFMQSST 2025 will facilitate budding researchers to engage in knowledge-sharing, professional development, and exposure to world-class expertise. The conference will help to discuss the recent developments in quantum computing, sensing and communication, to transform sciences into sustainable and smart technologies.

collaboration, we strive to turn groundbreaking scientific insights into tangible innovations that benefit society. The goal of the conference is to design, to innovate, maximize material efficiency, and align with worldwide efforts to build a sustainable and intelligent tech-driven future.

Outcomes:

One of the basic outcomes of AFMQSST 2025 is to identify the emerging trends in the synthesis and design of novel advanced functional materials, those aimed in enhancing energy efficiency, environmental sustainability, and electronic performance. Along with the keynote speakers the participants can present their research studies and innovations in quantum materials, nanoscale devices, and hybrid systems that have potential applications in renewable energy, smart sensors, quantum computing, and next-generation communication technologies. The broad outcome of the conference is collaborative research consortia among participating universities and industry partners, resulting in submitting of joint proposals to both national and international funding agencies which will create a path for researchers and faculty members for getting internships and faculty exchange programmes among various laboratories. The purpose of this conference is publishing of research papers in high impact journals.

Call for Papers

AFMQSST 2025 invites full-length original research articles from faculty, scientist, research scholars, and industry professionals from across the world. Research articles and review papers not exceeding twelve pages in a single column format shall be submitted. The manuscripts should not have been published or under review in any of the journals or conference proceedings. Further, the manuscript should contain the name, e-mail id of the corresponding author and affiliation of co-authors. The organizing committee of the conference invites research manuscripts on the following areas and related topics

Themes:

Quantum Materials for Energy Systems and Sustainability

Materials for Green Energy Conversion and Storage

Materials Informatics and Artificial Intelligence in Materials Science

Nanomaterials and Low-Dimensional Structures for Advanced Devices

Bio-Functional and Quantum Materials for Health and Medicine

Interdisciplinary Approaches to Energy Storage

Publication

All the accepted papers will be published in conference proceedings with International Standard Book Number (ISBN) and selected papers will be published in Springer and Elsevier (SCI-Journal) and SCOPUS indexed journals.

Abstract Submission

Perspective authors are encouraged to present their original, unpublished research work, and the selected abstracts will be called for Oral presentations. Abstract up to 300 words in Times New Roman with font size 12pts, 1.5 line spacing may be submitted in .doc/.docx file with the author's name (presenting author name to be underlined), affiliation and corresponding author email ID, by 1st January 2026.

Submit your abstract to: afmqsst2026@kluniversity.in

Registration Fee includes:

- Registration Kit
- Access to all Keynote addresses and technical sessions (Hybrid Mode)
- Participation and presentation (poster/oral) certificates
- Nominal accommodation charges will be paid by participants; however, food facility will be catered by conference organizers

Participation	Registration Fee	
	National	International
Student	INR 1000	USD 15
Research Scholar	INR 1500	USD 25
Faculty/Scientist	INR 2000	USD 40
Industry	INR 4000	USD 50

Online Payment Details:

Account Name: KL University – Sponsored Research Funds / [KLU-SR-036]

Account No. : 62434363674

Bank Name: State Bank of India

Branch: Vaddeswaram

IFSC Code: SBIN0021361

Registration Link:

<https://forms.gle/CJpQBhF1p2xdP9Ak9>

(After the completion of Payment, register for the program through the given link with payment proof)

Important Dates

Last date for abstract submission:	01, January 2026
Last date for paper submission:	10, January 2026
Last date for acceptance:	12, January 2026
Early bird Registration:	10, January 2026
Late Registration:	20, January 2026
Conference dates:	26-28, December 2024

For more information Contact

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Dr. A Venkateswara Rao, Associate Professor, Physics.

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International Speakers

Dr. Mohammed Sultan Al-Buriahi
Sakarya University, Turkey

Dr. Tanujjal Bora Director (Interim)
Center of Excellence in Nanotechnology,
Asian Institute of Technology, Thailand.

Dr. Fadl Abdelmonem Essa & professor Mechanical Engineering
Department, Faculty of Engineering,
Kafrelsheikh University, Egypt.

Dr. Ammar Elsheikh & professor
Renewable Energy, Tokyo University, Japan

Dr. Shiva Gorjian
Professor, Department of Biosystems
Engineering and Department of Renewable
Energy, Tarbiat Modares University (TMU),
Tehran, Iran.

Dr Pavan Kumar Gondrala
Assistant Professor of Research, Chemistry &
Biochemistry, The University of Texas.

National Speakers

Dr. Sai Santosh Kumar Raavi
Professor, Department of Physics, IIT
Hyderabad.

Dr. Ch Subrahmanyam, Professor,
Department of Chemistry, IIT Hyderabad.

Dr D. Pamu
Professor, Indian Institute of Technology
Guwahati

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Professor, Department of Physics, Nagaland
University.

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Asst Prof (Grade-I), Dept of Sciences, IIITDM
Kurnool.

nirf NATIONAL INSTITUTIONAL
2025 RANKING FRAMEWORK
(Ministry of Human Resource Development, Govt. of India)



Includes IIT's, IIM's, IIIT's, IISc, NIT, State & Central Govt. Institutions

nirf-Innovation
National Institutional Ranking Framework For Innovation
Ministry of Education, Government of India

Rank Band 11- 50