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## IMPORTANT DATES

S. No.	Description	Date/s
1	Deadline for Paper submission	30.04.2022
2	Paper Acceptance Notification	18.04.2022
3	Start of Registration with final paper submission	19.04.2022
4	Close of Registration	28.04.2022

## REGISTRATION

Category	Single paper Amount	**Second paper
Academician	Rs. 3000	Rs. 2000
Research Scholar / UG / PG Students	Rs. 2500	
Industry /R&D	Rs. 5000	Rs. 4000
Foreign Author	\$100	\$75
Attendee/Non-author	Rs. 1000	--

**\*Corresponding author should be same for both papers.**

**Note: All the selected full length papers are to be submitted to [aicte.es.2022@kitsw.ac.in](mailto:aicte.es.2022@kitsw.ac.in) on or before due date will be published in Scopus indexed GRADIVA REVIEW JOURNAL (Scopus Indexed) with an Impact Factor of 6.1 (ISSN No: 0363-8057).**

**\*\* Note: Rs. 500/- is charged for more than 8 pages.**



**AICTE Sponsored International Conference On**



**Energy Sustainability (AICTE-ES-2022)**

**20-21 May, 2022**



## Coordinator

**Dr. K. Sridhar**  
Professor of ME, KITSW

## Co-Coordinator

**Dr. G. Ganesh Kumar**  
Associate Professor of ME, KITSW



**MHRD NIRF-2021**  
(Rank 197)



**NAAC-'A' Grade accredited**  
Institute (CGPA 3:21)

**Organized by**

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## Department of Mechanical Engineering

**Kakatiya Institute of Technology & Science, Warangal** *(An Autonomous  
Institute under Kakatiya University, Warangal)* Opp: Yerragattu Gutta,

Hasanparthy (M),

Warangal-506015 (TS), INDIA.

Website: <https://kitsw.ac.in/aicte-es-2022/>

## ABOUT THE INSTITUTE

**Kakatiya Institute of Technology & Science, Warangal** popularly known as **KITSW**, is a 41-year-old institute, was established in 1980 by **Ekasila Education Society (EES)**, Warangal, a philanthropic society, with a primary objective of providing quality technical education. KITSW is approved by the **AICTE, New Delhi** and recognized by the UGC under section 2(F) and 12(B) of UGC act 1956. The UGC, **New Delhi** granted first time **autonomous status in 2014** under Kakatiya University (KU), Warangal and has extended autonomy for a period of 5 years from AY 2021-22 to AY 2025-26. It is accredited by **NAAC with 'A' grade (CGPA: 3.21/4.0)**. The Government of India's **NIRF-2021** placed KITSW in **197 rank**. The Ministry of **MSME, Government of India** recognized KITSW as **Host Institute** to setup **Business Incubator**. The **AICTE-CII Survey of Industry Linked Technical Institutes** ranked KITSW as **GOLD CATEGORY institute** for the 6<sup>th</sup> consecutive year since 2015. The industry institute interaction cell of the institute has collaboration and **MoU with NIT Warangal** in the areas of teaching & learning, research & development. At present, KITSW is offering UG in ten branches of engineering, PG in seven engineering specializations and MBA. The KU recognized the departments of CE, ME, E&I and CSE as research centers for PhD programmes. All the eligible UG engineering programmes have **active accreditation status** granted by the **NBA, New Delhi**. The Institute has a committed team of 4453 students, 285 qualified faculty members and 150 technical & supporting staff. Located in 65 acres of lush green sprawling campus, KITSW is one of the premier technical institutes in Telangana state of India. Over the years since inception, it has attracted academicians of proven competence onto its faculty, augmented the infrastructural facilities, modernized laboratories, made its curriculum industry relevant, added courses in emerging areas and placed its graduates through campus placements, higher education in India and organizations across the globe, and thus received recognition among industry and academic circles. Warangal city is well connected by rail and road. The institute is located at Yerragattu Gutta, Hasanparthy on Warangal-Karimnagar highway. The nearest airport is in Hyderabad.

## ABOUT ME DEPARTMENT

The Department of Mechanical Engineering came into its existence right from the inception of the KITSW in the year 1980 and has been serving as catering department to other disciplines. The Department is one of the largest in terms of faculty, students, and activities, continues to lead and expand its activities in various directions. The department currently runs undergraduate program, one post graduate program in M. Tech Design Engineering and offering a Ph. D program, 26 Research scholars have registered so far and out of which five candidates are awarded with Ph. D Degree and remaining are pursuing their Ph. D work in the areas of Thermal, Production, Materials and Design. NBA accredited the B.Tech (Mechanical Engineering) course five times. Department has 42 qualified, experienced and committed senior faculty and 20 of them are with Ph. D. degrees. Rest of faculty members possess M. Tech. Degrees and are pursuing their Ph.D. programs and 10 skilled technical staff to associate with different laboratories, The faculty has been engaged in research in all the classical areas of Mechanical Engineering and upcoming areas like alternative fuels, solar energy, Nano Fluids, unconventional machining, composite materials and powder metallurgy.

The department has got grants under MODROBS from AICTE, Minor Research Projects from UGC. The department is very well equipped with resources in terms of both conventional equipment and latest software's. The academic activities are supported by 13 laboratories and one Center of Excellence, IAAHP. The Department has strong industry-institute linkage and is extending services for industrial consultancies. The students are consistently securing good ranks/scores in all competitive examinations like UPSC/GATE /GRE/CAT/GMAT/TOEFL/IELTS examinations.

## ABOUT CONFERENCE

AICTE - Energy Sustainability (ES) Conference focus on identifying innovative technologies, research, design advances, and solutions toward a path of renewable and other energy sustainability options including utility-level integration. The key intention of AICTE-ES-2022 is to provide an opportunity for the participants to share their ideas and experience in person with their peers expected from different parts of the world. In addition to this gathering will help the delegates to establish research or business relations as well as to find international linkage for future collaborations in their career path. We hope that this objective will lead to significant contributions to the knowledge base in scientific fields.

## LIST OF TOPICS

- Energy Conservation and Energy Conversion
- Fuel Cell and Plasma Technology
- Heat Transfer
- Energy Materials and Energy Recycling
- Renewable Energy Sources
- Solar Energy, Wind Energy Biofuels / Biofuel Cells
- Hybrid Energy Systems
- Hydropower and Advanced Energy Technologies
- Energy Policy, Planning & Management
- Advanced Energy Technologies
- Nuclear Energy: Fission and Fusion
- Nuclear Energy and Nuclear Materials and Fuels
- Energy From the Space, Dark Energy
- Energy and Environment
- Ecology and Biodiversity Conservation
- Environmental Pollution & Management
- Climate Change and Global Warming
- Sustainable Development Computational Techniques
- Industrial waste treatment
- Water pollution and treatment
- Solid waste management
- Environmental management systems
- Air pollution control and equipment
- Pollution prevention in industry
- Solar electricity and PV applications
- Solar cell technology, Solar cell materials, testing and efficiency
- Nanotechnology applications to RE
- Solar thermal applications
- Hydroelectric, geothermal, tides and waves

- Biogas and biomass
- Combustion, Fire and Fuels
- Hybrid energy systems
- Integrated energy systems
- Rural electrification
- Regional issues, economics and policy
- Fuels and Combustion
- Emissions from ICE and their control
- Alternative fuels and Eco-Design
- NG as fuel for rural transportation
- Hydrogen and fuel cells
- Hybrid and electric vehicles
- Green Engineering and chemistry
- Green Energy and economy
- Environmental Toxicology

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