

IMPORTANT DATES

Deadline of submission : 30th June 2021
Notification of acceptance : 30th July 2021
Camera ready paper : 31st August 2021
Deadline for registration : 10th September 2021
Conference dates : 24th-26th September 2021

PAPER SUBMISSION

Information on preparation and submission of the full paper is available on the conference website.

<http://yukthi2021.online/>



REGISTRATION FEE

Industrial Delegates : Rs. 1500
Academicians : Rs. 1000
Research Scholars/Students : Rs. 500
Foreign Delegates : \$ 50

Mode of Payment

Bank : SBI, Westhill Branch
Name : Principal Educational
A/C No : 67203691557
IFSC : SBIN 0070857
Purpose : Yukthi 2021

Note : Use your "Yukthi 2021" submission number in all your transactions through online payment to the account given above

MECHANICAL ENGINEERING DEPARTMENT

VISION

An inspiring centre to educate the youth towards technical and professional brilliance.

MISSION

- Nurture youth to excel in academics and innovative research.
- Develop professionals to meet industrial and societal challenges.
- Involve in the progress of the nation through advanced and sustainable technologies.

Patron

Dr. Byjubai T. P.,
Director of Technical Education, Govt. of Kerala

Chairman

Dr. Najeeb K.,
Principal, Govt. Engineering College Kozhikode

General Convener

Dr. Shajee Mohan B. S.,
Professor, Dept. of AE & I, GECK

Department Convener

Dr. Jesseela S.,
Professor, Dept. of ME, GECK

Department Coordinators

Dr. Sajeeb A. M.,
Associate Professor, Dept. of ME, GECK

Prof. Arun Shal U. B.,

Assistant Professor, Dept. of ME, GECK

Advisory Committee

Dr. A. Ramesh, Institute Chair Professor, Department of Mechanical Engineering, IIT Madras

Dr. Jerzy A. Szpunar, Professor of Mechanical & Bio-medical Engg., College of Engineering, University of Saskatchewan, Canada

Dr. P. V. Aravind, Professor, University of Groningen, Netherlands

Mr. Rajeev Senan, Associate Director, Space Infrastructure, ISRO Bangalore

Dr. Swaminathan Subramanian, Director of Innovation and Business Development, Michigan State University, USA

Mr. Bijendralal, Principal Operations Engineer, Mcdermott International, Houston, USA

Dr. Albert Thomas, Assistant Professor, Department of Civil Engineering, IIT Bombay.

Dr. H Khalid Rafi, Senior Lead - Additive Manufacturing Programs Development, ASTM International.

Dr. Lakshmi J Mohan, Post-Doc Research Fellow, RMIT University, School of Science, Melbourne, Australia

Alumni of Department of Mechanical Engineering, GECK

Mr. Ajeesh Kunnath, Deputy Collector, Dept. of Revenue, Govt. of Kerala.

Dr. Vipin B, Assistant Professor, Department of Industrial & Management Engineering, IIT Kanpur

Mr. Ciju Paul, Scientist Engineer- SD, VSSC, ISRO Trivandrum

Mr. Abhilash P M, Techno Manager - eAxle design and simulation, Robert Bosch

Mr. Ciju Silva Christy, Design Engineer-HVAC, Climatch Pvt. Ltd, Brisbane, Queensland, Australia

Mr. Liju Krishnan, Scientist, IGCAR, Chennai.

Dr. Linu Malakkal, Post-Doc Scholar, IDAHO National Laboratory, USA

Mr. Aman P V, Subject matter expert in system modelling and simulations, KPIT Technologies Ltd, Bangalore

Dr. Sharu B. K., Post-Doc Scholar, University of California, Los Angeles

Dr. Sidharth N S, Assistant Professor, Department of Mechanical Engineering, AMITY University, Dubai

Dr. Anas N. Saifudeen, Scientist, Jawaharlal Nehru Aluminium Research Development & Design Centre, Nagpur

Dr. E W Awini, Post-Doc Scholar, University of Bayreuth, Germany



INTERNATIONAL CONFERENCE ON MECHANICAL ENGINEERING & ENERGY TECHNOLOGIES URJA 2021

Organized By
Department of Mechanical Engineering

24th to 26th September 2021

Under the Aegis of

YUKTHI 2021

International Conference on
Emerging Trends in Engineering

GOVERNMENT ENGINEERING COLLEGE KOZHIKODE

Westhill PO, Kozhikode, Kerala, India - 673005
Phone: 04952383220, Fax: 04952383220



www.geckkd.ac.in

Sponsored by



Directorate of Technical Education Kerala
TEQIP Phase - II

**INTERNATIONAL CONFERENCE ON
MECHANICAL ENGINEERING
&
ENERGY TECHNOLOGIES
URJA 2021
24th to 26th September 2021**

Convener

Dr. Jesseela S.,
Professor, Dept. of Mechanical Engineering
Email : jessyhamza@gmail.com
Phone : [+91 94478 46601](tel:+919447846601)

Head of the Department

Dr. Sajith P. P.,
Professor, Dept. of Mechanical Engineering
Email : sajithpp@geckkd.ac.in
Phone : [+91 94956 88468](tel:+919495688468)

SCOPE OF THE CONFERENCE

Government Engineering College Kozhikode (GECK) has successfully conducted several editions of the National Conference on Emerging Trends in Engineering (NET) during the past. "Yukthi 2021" - The International Conference on Emerging Trends in Engineering is an attempt to further explore the avenues in technology through conducting world class events such as paper presentations, panel discussions, webinars etc. Yukthi 2021 provides a venue for the confluence of the latest ideas, thoughts and innovations of talented minds all over the world. The International Conference will be conducted from 24th to 26th September 2021 in online mode and strictly following COVID-19 protocols. Under the aegis of Yukthi 2021, the Department of Mechanical Engineering, GECK conducts the International Conference on Mechanical Engineering and Energy Technologies.

PUBLICATION

All accepted manuscripts will be published in Elsevier SSRN Conference Proceedings



CONFERENCE TOPICS

Authors are invited to submit papers resulting from their original research works in topics related to, but not limited to the following:

- **Thermal, Fluids & Energy Engineering**
 - Novel concepts on Energy systems & analysis
 - Fuel Cells, Hybrid and Electric Vehicles
 - Processes & Performance enhancement for energy systems
 - Renewable energy utilization & Alternate Fuels
 - Computational Fluid Dynamics for Energy systems
 - Nano Fluids and applications
 - Phase Changing Material
- **Materials, Manufacturing and Design Engineering**
 - Novel concepts on Energy systems design
 - Futuristic materials and manufacturing processes for energy systems
 - Tribology & Nano-tribology
 - Composite, Smart and Nano-Materials
 - Computer Aided Design , Manufacturing and Analysis
 - Additive Manufacturing
 - Mechatronics, Robotics & Industrial automation
- **Industrial Engineering & Optimization**
 - Optimization techniques for system design & analysis
 - Artificial intelligence and Machine learning applications
 - Supply Chain Management
 - Ergonomics and human factors

ABOUT GEC KOZHIKODE

Established in 1999, GEC Kozhikode is one of the prestigious Technical Institution in the state of Kerala, the first state of India with 100% literacy. The Institution is fully owned by the Government of Kerala under the Department of Higher Education. Our Institution is among a few selected and supported under Technical Quality Improvement Programme (TEQIP-II) which is a Government of India – World bank Initiative. GEC Kozhikode is also an ISO 9001:2015 certified institution

Institution offers B.Tech programs in diversified engineering streams of Civil, Chemical, Electronics & communication, Instrumentation and Mechanical Engineering and also industry friendly M.Tech programs in Computer Assisted Process Design, Energy systems analysis & design, and Signal Processing. All our major programmes are accredited by National Board of Accreditation (NBA)

Our Vision

A hub of technological brilliance having international acceptance which fosters professionals and innovators with social responsibility.

ABOUT MECHANICAL ENGINEERING DEPARTMENT

Our focus has been in line with our vision to be an inspiring centre to educate the youth towards technical and professional brilliance. We offer a UG Program, B. Tech. in Mechanical Engineering (NBA Accredited) and a PG Program, M. Tech in Energy systems analysis & design.

We are blessed with active and highly qualified faculty members and vibrant student groups. Our major strength has been the specialization of our faculty members in the diversified segments of Mechanical Engineering. Our alumni are employed at prestigious industrial organisations and have been keen to pursue higher education and research at premier institutes in India and abroad. We have the legacy of successfully organising several National Conferences in the past. However, this is our first international endeavour