

# INTERNATIONAL CONFERENCE ON TECHNOLOGY CONVERGENCE IN ENGINEERING, ENERGY AND SUSTAINABILITY (ICTCEES-2019)



July  
11th - 12th  
2019



ORGANIZED BY

Department of Mechanical Engineering  
Vimal Jyothi Engineering College,  
Chemperi, Kannur, Kerala - 670632







## About the College

Vimal Jyothi Engineering College (VJEC) is an educational project of the Archdiocese of Thalassery established in the year 2002 and is managed by Meshar Diocesan Educational Trust. The college is approved by AICTE and affiliated to APJ Abdul Kalam Technological University (KTU). VJEC is a self-financing catholic minority institution aiming at generating a fervor for Engineering and Technology in students. Here we inspire, nurture and foster them to realize their career potential in the field of Engineering and Technology. With profound insight into the resource requirements of the higher education system, VJEC has proudly set up world-class infrastructure complemented with intellectual capital in the form of competent faculty. Many of the facilities are way beyond the regulatory requirements aiming for learning beyond the syllabus to address the requirements of the industry. These material facilities along with value addition programs and student support systems are the integral facets of empowerment at VJEC. Digital library, industry supported project labs, language lab, and student chapters of professional bodies such as IEEE, ISOI, IETE, SAE, CSI offer an extensive range of resources, opportunities and services to the outcome based teaching learning process. Effective implementation of quality control processes ensure Engineering graduates with the expected level of knowledge, skill and attitude.

## About the Department

The Mechanical Engineering Department was established in the year 2004 with Kannur University and later in 2015 affiliated to KTU University for B.Tech degree course with an initial intake of 60 students. It has since then grown significantly by spreading its academic activities in offering courses at Undergraduate level as well as Post Graduate level. The department faculty is actively involved in guiding research scholars leading to Ph.D. degree. Currently, the department admits 120 students for the Undergraduate programme and 24 for the Post Graduate courses (Thermal Engineering) in regular stream. It has been recognized as research centre with KTU University, Kerala. To meet the required Academic standards, quality instruction to students is imparted by the motivated and qualified faculty members providing good academic insights. To provide higher degree of perspective in the concepts of subject content, Computers and Audio Visual equipment are extensively used. Students are especially trained to meet the current industrial requirements.

## Vision

To become a center of excellence in Mechanical Engineering, producing innovative and creative mechanical engineers to meet the global challenges.

## Mission

To provide a platform to the students towards attaining quality education in Mechanical Engineering.

To educate students about professional & ethical responsibilities and train them to build leadership and entrepreneurship qualities for their career development.

To create opportunities and guide students in acquiring career oriented jobs in the field of Mechanical Engineering.

## Objective of the Conference

The ICTCEES 2019 conference is a platform where academicians, technocrats, researchers and scientists can exchange their technical expertise and knowledge. It aims to bridge the gap between academic research and industry needs. The topics covered are the major research areas of modern day requirements. We warmly welcome all researchers to submit their latest research paper to ICTCEES 2019, and share the valuable experiences with the scientist and scholars around the world. This International conference will create a scenario where all the stakeholders viz. researchers, industry experts, & personals, manufacturers, students and faculty can gather in a single platform to discuss and share their views and expertise in the different segment of the technologies, thereby an industry can attract and breed prospective talents from the platform and bring it to development and adoption of the technology. Keeping in view the above facts and industry demands the following three themes viz. Mechanical, Civil, Electrical, Electronics, Computer Science, and Biomedical were taken for deliberation. We request all the stakeholders to participate in this international conference with their views and works for the development of these core engineering sectors.





## Call for Papers

Authors are invited to submit original and unpublished research articles in the following areas but not limited to

### Mechanical

Applied Mechanics  
Automation, Mechatronics and Robotics  
Automobiles  
Compressible Flows  
Dynamics and Vibration  
Engineering Materials  
Energy Engineering and Management  
Fatigue and Fracture  
Fluid Mechanics and Machinery  
Heat and Mass Transfer  
Internal Combustion Engines  
Machinery and Machine Design  
Manufacturing and Production Processes  
Material Science and Nano materials  
New and Renewable Energy  
Tribology.

### Civil

Bridge Engineering  
Construction Technology  
Design of Concrete Structures  
Design of Steel Structures  
Engineering Geology  
Environment and Pollution  
Foundation Engineering  
Geomatics  
Geotechnical Engineering  
Highway Pavement Design  
Quantity Surveying and Valuation  
Structural Analysis  
Structural Dynamics and Earthquake Resistant Design  
Surveying  
Transportation Engineering  
Town and Country Planning  
Water Resources Engineering  
Wave Hydrodynamics and Coastal Engineering

### Biomedical

Bioelectrical Engineering  
Biofluid Mechanics  
Bioinformatics  
Biomaterials  
Biomechanics  
Biomechatronics  
Biomedical Devices  
Biomedical Engineering  
Biomedical Optics  
Biomems  
Biophotonics  
Biosensors  
Nanotechnology for Biomedical Applications

### Electronics and Communication

Internet of Things  
Broad Band Communication  
Computer and Intelligent Communication  
Mobile and Optical Communication  
Wireless Sensor Networks  
Network Security  
Advanced VLSI Systems  
Embedded Wireless Systems  
Quantum processors  
Neural processors  
Electro-dynamic tether

### Computer Science

Knowledge Processing  
Artificial intelligence and robotics  
Bio-informatics  
Abundant-data applications  
Human-computer interaction  
Grid Computing  
Pervasive Computing  
Digital Image and Video Processing  
Computer Vision and Image Analysis  
Data Mining and Cloud Computing

### Electrical and Electronics

Soft Computing and Fuzzy Logic  
Feedback Control Systems  
Power Electronics and Energy Efficient Drives  
Power Quality Improvement Techniques  
Expert Systems and Artificial Intelligence Techniques  
High Voltage Engineering  
Systems Science and Signal Processing





## Important Dates

- Full Paper Submission Starts 15th April, 2019
- Full Paper Submission Ends 31st May, 2019
- Initial Acceptance 5th June 2019
- Last Date for revised paper submission 15th June, 2019
- Final Acceptance after revision 22nd June, 2019
- Registration starts from 23rd June 2019
- Last Date for Registration 01st July, 2019

## Registration Fee

REGISTRATION FEE DETAILS	
Authors/Delegates	Fee
Delegates from Foreign	\$ 300/
Delegates from Academia	Rs 2500/-
Delegates from Industry	Rs 3000/-
Research Scholars / PG Students	Rs 2000/-
B.Tech Students	Rs 1500/-
Conference Attendees	Rs 500/-
Participants in poster presentation	Rs 500/-

## Highlights

- All the accepted papers will be published in UGC approved journals.
- Selected papers will be published in scopus indexed journals. by additional payment.
- Publication of conference proceedings/full paper in e-book with ISBN.
- Oral Presentation by any one author.
- Presentaion by skype. (foreigners)
- Paper in absentia are also welcomed
- Poster presentation are aslo welcomed

- If co-authors need certificate and kits, they should pay extra 500/-

Based on the review, selection, acceptance, registration and presentation of the papers will be published in Conference Proceeding. If the papers are presented by a single author, he/she must register for the conference; if it is more than one author, at least one of the author must register for the conference on or before 01st July, 2019 .Participants of the conference may address their queries if any, regarding the paper submission or any other matter communicate through email-hodme@vjec.ac.in. A late registration fee (after 01st July, 2019) of Rs.500/- should be paid along with registration amount till 11th July, 2019. For more details and registration form, please refer to <http://www.ictcees.vjec.ac.in>





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Akhil Puthusheery

### TOURIST SPOTS

सर्प उद्यान  
SNAKE PARK

Payyambalam Beach

Parassinikadavu Snake Park



Kanjirakolli

Palakkayam Thattu



St. Angelo Fort

From Kannur Railway Station



Paithalmala

From Kannur International Airport

