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### Registration Fees

Faculty and participants from  
Industry/ research organizations Rs 500  
Research Scholars/Graduate Students Rs 500  
Delegates (not presenting a paper) Rs 500

### Payment Details

The registration fee should be paid at the time of registration on 11-02-2020.

### Address of Correspondence

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### For queries, please contact

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## COLLEGE OF ENGINEERING ADOOR

(Owned by Govt. of Kerala & Managed by IHRD Tvm)  
Manakkala,(PO) Pathanamthitta Dt,  
Kerala State. Pin 691551  
www.cea.ac.in

Invites you to the  
TEQIP – II SPONSORED

## NATIONAL CONFERENCE ON RESEARCH INNOVATIONS IN THERMAL AND MECHANICAL ENGINEERING 2020 (NCRITME'20)

11-12, FEBRUARY 2020

Venue :

College of Engineering  
Adoor, Pathanamthitta Dt.



Organized by  
Department of Mechanical Engineering

### The College:

College of Engineering Adoor is located in the district of Pathanamthitta in the state of Kerala. The college was established by the Government of Kerala in 1994 under the Institute of Human Resources Development (IHRD). The College is affiliated to the APJ Abdul Kalam Technological University and offers UG level programs in Computer Science and Engineering, Electronics and Communication Engineering, Electrical and electronics Engineering and Mechanical Engineering and a PG program in Thermal Engineering. College of Engineering Adoor is one among the 19 Engineering Colleges in Kerala selected for the second phase of the Technical Education Quality Improvement Program (TEQIP-II) of the Government of India, a World Bank project.

### About the conference

Heat Transfer, Fluid Dynamics and Propulsion are one of the most happening realms, in terms of research output, in Mechanical Engineering. Research in these realms has had a telling impact on the advancements of engineering applications in the fields like Aerospace Engineering, Energy systems, Biological Systems etc. The conference will provide a platform for discussions and deliberations on the recent advances in the realms of Heat Transfer, Fluid Dynamics and Propulsion. The conference will bring together leading researchers from academia/research organizations and scholars in the domain of interest from around the country.

### Who should attend the conference?

This conference is aimed at researchers in Academia and Industry. Graduate students doing research in the any one of the research realms mentioned below or related topics can also attend the conference.

### Conference Themes

Original unpublished papers from prospective authors are invited in the following themes, but not limited to;

#### Theme Group 1

- Heat transfer in Energy Systems.
- Microscale and Nanoscale Thermal Transport.
- Heat Transfer Equipments.
- IC Engines and Combustion.
- Thermal management of Electronics.
- Numerical Heat Transfer.
- Heat Transfer in Multiphase Systems.
- Heat Transfer in Biological Systems.
- Energy Management

#### Theme Group 2

- Divergences and Instabilities in Fluid Dynamics
- Fluid-Structure Interaction.
- Simulation and Optimization of flows in Turbomachinery.
- Computational Fluid Dynamics.
- Flows in Minichannels, Microchannels and Nanochannels.
- Non-Newtonian Flows
- Flows through porous media.

#### Theme Group3

- Chemical thermodynamics and kinetics of combustion.
- Combustor design and development.
- Thermo-structural/vibration analyses.
- Gas turbine engines
- High-speed air-breathing propulsion
- Propellants and combustion

#### Theme Group 4

- Business Management
- Optimization techniques in engineering
- Production engineering
- Any other relevant area in Mechanical Engg.

### Submission details.

The selection of paper will be made on their relevance to the themes of the conference. Please indicate which of the conference themes your paper fits best. Papers represent the majority of the submissions and form the scholarly sessions of the program

#### Guidelines for preparation:-

- Original research papers prepared in "IEEE format" with maximum 8 pages describing the abstract, introduction, literature survey, scope of the paper, methodology, results conclusions /discussions and references

- Times New Roman 12-point font
- Microsoft Word

- Brief biography (maximum six lines) and author contact details including Author's position, organization, address, telephone, mobile, and email.

The Papers should be sent by e-mail to: [ncritme20@cea.ac.in](mailto:ncritme20@cea.ac.in)

Submitted papers must NOT have been previously presented, scheduled for presentation, published, accepted for publication and, if under review, must NOT appear in print before the conference dates. The papers will be accepted subjected to the blind review and the changes should be incorporated as per the feedback. Detailed guidelines for remittance of registration fee and re submission after modifications (if any) will be intimated to the selected participants. The conference proceedings will be published in website and CDs.

### Important Dates

Full paper submission	3 <sup>rd</sup> - Feb - 2020
Revision and author notification	5 <sup>th</sup> - Feb - 2020
Revised paper submission (if any) and registration	7 <sup>th</sup> - Feb - 2020