

Resource Person

Dr. S. SARAVANAN,
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Registration Fee -NIL

Important Dates

Last Date for Receipt of Applications: 15-06- 2020

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JYOTHISHMATHI INSTITUTE OF TECHNOLOGY & SCIENCE

(Affiliated to JNTUH, Hyderabad)
AN ISO 9001:2015 CERTIFIED INSTITUTION
Nustulapur, Karimnagar.

A
FIVE DAY
NATIONAL LEVEL
FACULTY DEVELOPMENT PROGRAMME

On

**“Advanced & Research Opportunities
in Internal Combustion Engines”**

16th - 20thJune, 2020



Organized by

**DEPARTMENT OF MECHANICAL
ENGINEERING**

Convener

Mrs. R. CHANDANA
HOD-MECH, JITS

About the Institution

Jyothishmathi Institute of Technology and Science began its journey of excellence in the year 1997 as a self-financial Engineering college under Shalini Vidya Samithi, Karimnagar with a vision of providing technical education to the rural students by our esteemed chairman Sri. Juvvadi Sagar Rao Garu. The institution is approved by the All India Council for Technical Education (AICTE), New Delhi and is affiliated to Jawaharlal Nehru Technological University. Jyothishmathi has made meteoric progress during the last 22 years in teaching learning process and thrived into one of the pre-eminent colleges in northern region of Telangana State. The management of Jyothishmathi is zestful and enlightened. It believes in providing a quality and holistic engineering education through a combination of experienced faculty, innovative programs & course work and industry and institute collaboration in providing research and employment opportunities on campus

Jyothishmathi is driven by a brilliant team of faculty who here an unparalleled reputation for balancing excellence in their fields with a dedication to their students. Many students secured University ranks bringing laurels to the institution. This institution is the most preferred choice of students, parents, faculty and industry and proved itself as a role model in Technical Education.

About the Department

The Department of Mechanical Engineering was established in the academic year 2013 with strength of 60 students in ME (B.Tech). The department is well equipped and upgraded laboratories with Hi-end computers, the latest software. The students are being guided professionally and are being taught by well qualified and experienced teaching staff. Department is making the teaching-learning process more effective by using modern facilities like Smart Digital Boards, Digital library , LCD Projectors and Laptops. The department periodically organizes technical seminars, symposia, workshops, Project-Expo through MESA Student Association, Mechanical IEI student chapter and ISTE student Chapter. For the benefit of the students and the faculty, NPTEL videos access is being given. The Vision of the department is “To become a center of excellence in Mechanical Engineering, producing innovative and creative mechanical engineers to meet the global challenges”.

SCHEDULE

Day	Date	Topic	Time
Day1	16-06-2020	Combustion in IC Engines	11:00 AM TO 12:30 PM
Day2	17-06-2020	Types of IC Engines emissions and their formation mechanisms	11:00 AM TO 12:30 PM
Day3	18-06-2020	Emission control techniques for IC Engines	11:00 AM TO 12:30 PM
Day4	19-06-2020	Opportunity for research in CI Engine	11:00 AM TO 12:30 PM
Day5	20-06-2020	Application of design of Experiments in Engine research	11:00 AM TO 12:30 PM

ABOUT FACULTY DEVELOPMENT PROGRAMME

Day 1: The topic gives the knowledge on **combustion** (also known as burning) in **Internal Combustion Engines (ICE)** is the basic chemical process of releasing energy from a fuel and air mixture. In an **internal combustion engine (ICE)**, the **ignition** and **combustion** of the fuel occurs within the **engine** itself. And also describes the various stages of combustion in both SI & CI Engines to operate the engine for more mechanical work output.

Day 2: The topic gives the knowledge on types of Engines Emissions like exhaust **emission**, evaporative **emission** and crank case **emission**, and their formation.

Day 3: The topic gives the knowledge on introduction of Emission **Control Technologies** in **Internal Combustion Engine (ICE)** and Pollution Norms.

Day 4: The topic gives an idea about available Research Opportunities to meet the stringent emission norms.

Day 5: The topic gives an elaborative description of **Design of Experiments (DoE)** methodologies in conjunction with objective functions to the experimental optimization of engine.

For registration click the following link:

https://docs.google.com/forms/d/1W_GFNL0i69nhF4zJQBUHgtE_HNSG6T5oomwSRFVAulw/edit#responses

OR

SCAN QR CODE



E-CERTIFICATE will be provided based on daily attendance, feedback and quiz at the end of final session.