

CERTIFICATE

Certificates will be given to the registered and effective participants

REGISTRATION

Registration Fee **Free**

<https://tinyurl.com/MEFDPOBE>



Click on the link or scan the QR code for registration

How to reach



<https://tinyurl.com/jecmap>

PATRONS

Msgr. Jose Konikkara, Manager, JEC

Fr. Thomas Kakkassery, Executive Manager, JEC

Dr. Jose P. Therattil, Principal, JEC

CONVENOR

Rev. Dr. Jose Kannampuzha, Academic Director, Jyothi Engineering College, Thrissur

COORDINATORS

Dr. Biju C.V., Professor, HOD, Dept. of Mechanical Engineering

Mr. Christy V. Vazhappilly, Assistant Professor, Dept. of Mechanical Engineering

CONTACT

Tel: +91 4884 259000, 274423

Mobile: +91 9447388932, +91 9895638192

Email: fdpme@jecc.ac.in || **Website:** www.jecc.ac.in

CREATING TECHNOLOGY LEADERS OF TOMORROW



Sponsored by

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
FACULTY DEVELOPMENT PROGRAMME (FDP)
2022-2023

Organized by Department of Mechanical Engineering

**OUTCOME BASED EDUCATION (OBE):
ADOPTING EFFECTIVE PEDAGOGY**

30.01.2023 to 03.02.2023



Jyothi Engineering College
Reaccredited with NAAC (Grade A) and NBA Programmes*

Approved by AICTE & affiliated to APJ Abdul Kalam Technological University
A CENTRE OF EXCELLENCE IN SCIENCE & TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRICHUR
JYOTHI HILLS, VETTIKATTIRI P.O., CHERUTHURUTHY, THRISSUR, 679531 | PH. +914884 259000 | info@jecc.ac.in | www.jecc.ac.in



ABOUT JYOTHI ENGINEERING COLLEGE

Jyothi Engineering College (JEC), set up in 2002, under the aegis of Trichur Educational Trust, founded by the Catholic Archdiocese of Trichur, is one of the leading engineering colleges in Kerala. This college is affiliated to Kerala Technological University and offers various BTech, MTech, PhD programmes in Engineering and Technology. The Archdiocese of Trichur has an illustrious track record of a century and a quarter in the education sector.

Jyothi Engineering College is a NAAC re-accredited institution with Grade 'A'. Five of the undergraduate programs offered by Jyothi Engineering College have NBA accreditation, which indicates that we are well recognized for the quality of education we offer. We are periodically evaluated for this stringent NBA accreditation criteria to ensure that we sustain the mandated quality levels.

The worlds of study and work have changed dramatically. Students of today require different sets of skills than those of previous generations. We are in the midst of the fourth industrial revolution and the predictions are that 85% of the jobs that will exist in 2030 have not been invented yet.

Jyothi Engineering College prepares students to become T-Shaped professionals, i.e., professionals who have in-depth expertise in their discipline as well as a breadth of competencies required in the 21st century. In order to train our students to become "T" shaped professionals, so that they are "future ready", we have set up an incubation centre, Integrated Industrial Incubation Centre (IIIC), in association with TATA Technologies.

Additionally for students desirous of being "job creators" rather than "job seekers", Jyothi Engineering College has also set up a Technology Business Incubator, JEC TBI, to help students create technology based new enterprises, foster an entrepreneurial spirit among students and commercialise R&D output.

Jyothi Engineering College offers a vibrant, beautiful, and green environmentally friendly campus, and excellent infrastructure for students, to aid the teaching and learning process. For more information visit www.jecc.ac.in

ABOUT DEPARTMENT

The Department of Mechanical Engineering started functioning in 2004, two years after the inception of the College. Currently, the department offers four year UG program in Mechanical Engineering, affiliated to APJ Abdul Kalam Technological University. UG program, Mechanical Engineering attracts bright and aspiring students every year and is designed to provide solid foundations for careers in industry, research, and academia. The department has highly qualified, experienced and dynamic faculty members with specialization in Thermal Engineering, Machine Design, Materials Engineering, Advanced Manufacturing, Industrial Engineering and CAD/CAM. The department is equipped with most modern infrastructure and state of art laboratories to undertake high-end teaching, research and developmental activities.

COURSE DETAILS

Significance:

The changing nature of the education sector worldwide has shifted the focus from the traditional mode of classroom teaching to an outcome based teaching - learning environment. The recent National Education Policy 2020 has also envisaged the idea to bridge the gap between the current state of learning outcomes and what is required by undertaking major reforms that bring the highest quality, equity, and integrity into higher education. Presently, there is a pre-dominance of the conventional and traditional classroom setup which are highly "Teacher-Centered" or taught with fixed curricula. Outcome based Education (OBE) is a shift towards "Students-Centered" classrooms with focus on learning outcomes. To achieve this, it is pertinent to adapt high-quality pedagogy to successfully deliver the curricular material to students. It is facilitated by the interactions between the instructor's knowledge of the subject matter and ability to develop and use best methods within teaching pedagogy. In fact, the pedagogical practices adapted, play a major role in determining the learning experiences received by the students and thereby, directly influencing their learning outcomes. The FDP is an endeavour in this direction and emphasizes on various aspects of teaching effectiveness to be explored within the changing dynamics of the educational environment.

The current Programme aims to train the faculty members in the new knowledge and skills, required to move beyond the scope of traditional classroom and to implement novel approaches in teaching pedagogy. The themes of the programme are designed in a manner to systematically cover the latest pedagogies regarding foundational conceptual frameworks of Blooms' taxonomy, graduate attributes, formative and adaptive assessment of learning outcomes, competency-based learning, and related pedagogies, such as experiential learning and use of ICT applications to aid the process. Furthermore, the FDP will facilitate the participants to share innovative ideas, develop critical thinking and share best practices related to OBE.

Objectives:

1. To define the perspectives of effective teaching.
2. To enhance the knowledge on Outcome-Based Education (OBE) and its implications in teaching, assessment, and evaluation
3. To facilitate understanding of teaching pedagogy and effective implementation of every aspect of pedagogy.
4. To enable self-introspective assessment of effectiveness in teaching.
5. Understand the mapping of Mission, Vision, Core Values and Objectives
6. To familiarize with the developments in communication and technology.

DEPARTMENT OF MECHANICAL ENGINEERING

VISION

To provide quality education of international standards in Mechanical Engineering and promote professionalism with ethical values, to work in a team and to face global challenges.

MISSION

- To provide an education that builds a solid foundation in Mechanical Engineering.
- To prepare graduates for employment, higher education and enable a lifelong growth in their profession.
- To develop good communication, leadership and entrepreneurship skills to enable good knowledge transfer.
- To inculcate world class research program in Mechanical Engineering.