

About the Institution

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 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. Further, VJEC is an ISO 9001:2015 certified Institution and also accredited by NAAC and NBA. 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. The Department offers students the opportunity to pursue an exceptional, high quality education. It has been recognized as Research Centre to have interaction with KTU University, Kerala for collaborative research programme which leads to Ph.D. degree by research. The Department is one of the largest in terms of faculty, students, & activities and continues to lead and expand its activities in various directions. The Department has a distinguished faculty, dedicated staff and superb student body that effectively work together to fulfill the academic mission. The academic activities are supported by seven well equipped laboratories/research centres.

About the Course

Nanomaterials are a rapidly developing field, which includes a diverse collection of disciplines. The applications of nanomaterials are gaining overwhelming response in almost all the fields. Introduction and scope, nanostructures, effect of nanoscale dimensions on various properties, Fabrication methods, characterisation methods, applications of nanomaterials and nanocomposites. Especially in healthcare sector, tremendous developments have been achieved. In the coming years, the developments in this field are expected to flourish and lead to several life-

saving medical technologies and treatment methods and other applications such as aerospace, automobile and electronics components.

Resource Persons

Dr. P. Kuppusami, Ph.D., (DAAD & JSPS Fellow),
Senior Scientist- IGCAR
Dr.T.P.D.Rajan, Ph.D., Principal Scientist - CSIR
Dr. Balaprasad Ankamwar, Ph.D., (University of Pune)
Dr. Kaviya Somasundaram, Ph.D., (IISc Bangalore)
Dr.Nigil Thomas, Ph.D., (Nirmalagiri College)
Dr.G.S.Hikku, Ph.D., (Chettinad Academy of Research & Education)

Objectives

- ✓ To introduce nanomaterials and nanocomposites
- ✓ Biosynthesis and characterization techniques used in nanomaterials.
- ✓ Nanocomposites

Expected Outcomes

The participants will be able to

- Understand properties of materials at nanoscale
- Knowledge in synthesis and characterization methods used in nanomaterials.
- Fabrication techniques of Nanocomposites
- Acquaint with the various applications of nanomaterials and nanocomposites

Course Contents

- ❖ Synthesis of Silver Nanoparticles and its application
- ❖ Synthesis of magnetic nanoparticles
- ❖ Synthesis of Sensor Nanoparticles
- ❖ Nanocomposites and its applications
- ❖ Synthesis of graphene, conducting metal nanocomposites and semiconductor nanomaterials and their applications.
- ❖ Nano Catalysis.
- ❖ XRD characterisation.
- ❖ Hands on training on preparation of nanoparticles

Registration Fees

The registration is free for faculty members from KTU affiliated Institutions. Participants are requested to fill the registration form and send it to the address mentioned below. Registration will be confirmed only after receiving the duly signed registration form by sponsoring authority. Scanned copy of the filled registration form can be sent to email:hodme@vjec.ac.in. **Last Date for Registration: 15-06-2019**

Registration form should be sent to:

Dr.S.Christopher Ezhil Singh, Co-ordinator,
Professor,
Department of Mechanical Engineering,
Vimal Jyothi Engineering College, Chemperi - 670632,
Kannur - District, kerala. **Phone: 8300352566;**
E-mail:christopher0420@vjec.ac.in

REGISTRATION FORM



*KTU Sponsored
One Week Faculty
Development Programme*



*KTU Sponsored
One Week Faculty Development Programme
On
“Emerging Areas in Nanomaterials and its
Application”*

**On
“Emerging Areas in Nanomaterials and its
Application”**

Name :
KTU Faculty ID :
Designation :
Institution :
Educational Qualification :
Gender :
Experience -
Teaching :
Industry :
Accommodation needed : Yes / No
Address for
Communication :

Pin code :
Phone (Mobile) :
E-mail ID :

Declaration

The information given above is true to the best of my knowledge. I agree to abide by the rules and regulations governing the course. If I am selected I will attend the course for entire duration.

Place: _____ Signature of Applicant
Date: _____

Sponsorship Certificate

This is to certify that Dr/Mr/Ms.....
is an employee of our institute and is being sponsored
for attending the FDP on “Emerging Areas in
Nanomaterials and its Application” at VJEC,
Chemperi, Kannur, Kerala from 24-06-19 to 28-06-19

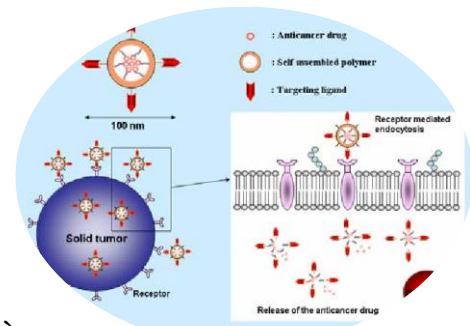
Place _____ Signature and seal of
Date: _____ sponsoring Authority

Sponsored by



KTU, Kerala

24.06.2019 - 28.06.2019



Co-ordinator

Dr. S.Christopher Ezhil Singh, M.E., Ph.D.,

Organized by



**DEPARTMENT OF MECHANICAL
ENGINEERING**

VIMAL JYOTHI ENGINEERING COLLEGE

Accredited by NAAC and NBA

Chemperi, Kannur, Kerala - 670 632.

Web:www.vjec.ac.in