

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. 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, skills 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 Centre's.

About the Course

Continuous learning is mandatory for teachers and the COVID pandemic has impaired the regular face to face training programs. To overcome this, an online two week FDP on the "Nanocomposites and Nanomaterials and its Characterization" is planned to support the Faculties of various Engineering and Arts and Science Colleges. 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. The topics will cover introduction and scope, nanostructures, effect of nanoscale dimensions on various properties, fabrication methods, characterization methods, applications of nanomaterials and nanocomposites. Tremendous developments in health care sector will be covered in the course. In the coming years, the developments in this field are expected to flourish and lead to several life-saving medical technologies and treatment methods. Other applications

such as aerospace, automobile and electronics components will be covered in detail.

Resource Persons

Eminent faculties from IITs, NITs, Industries, Research organizations and domain expert faculties from VJEC.

Objectives

The participants will be able to assimilate and communicate the modern and progressive inputs about nanomaterials and nanocomposites including synthesis and characterization techniques of nanomaterials, Powder metallurgy based nanocomposites. The program is intended for the Faculties of the Engineering and Arts & Science Institution/University/R&D Centers.

Expected Outcomes

The participants will be able to

- Understand properties of materials at nano scale
- Synthesis and preparation of nanoparticles.
- Characterization methods of nanomaterials.
- Fabrication techniques of Nanocomposites
- Acquaint with the various applications of nanomaterials and nanocomposites.

Registration Fees

The registration fee is Rs.500/- per participant. E-Certificate will be provided for all registered participants. Faculties from all Engineering and Arts & Science Institutions are requested to fill the Google registration form and attach the photocopy of the payment receipt with the Google registration form. Registration can be done through NEFT, Google pay, etc. to this account number 24273070000040, IFSC Code: SYNBO002427, Bank Name: Syndicate Bank, Vimal Jyothi Extension Counter. Any Quires please contact the convenor Phone: 8300352566.

Google registration form link

<https://forms.gle/LUjnBgPEaMQMGZSo6>

Or



Scan the QR code for registration

In association with



VIMAL JYOTHI ENGINEERING COLLEGE

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Two Week Faculty Development Programme (Online)

On

"Nanocomposites and Nanomaterials and its Characterization"

08.06.2020 - 20.06.2020



Convenor

Dr. S.Christopher Ezhil Singh, ME, VJEC

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Coordinators

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ORGANIZED BY



DEPARTMENT OF MECHANICAL ENGINEERING

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