

ABOUT THE INSTITUTE

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, RAS, ISOI, IETE, SAE, and 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 Department of Mechanical Engineering was established in the year 2004 with Kannur University and later in 2015 affiliated to KTU for B.Tech degree course with an initial intake of 60 students. The department faculty is actively involved in guiding research scholars leading to Ph.D. degree. Currently, the department admits 60 students for the undergraduate programme in regular stream. To meet the required academic standards, quality instruction to students is imparted by the motivated and qualified faculty members providing good academic insights. Students are especially trained to meet the current industrial requirements.

ABOUT THE COURSE

Continuous learning is mandatory for teachers and research scholars in the pandemic has impaired the regular face to face training programs. To overcome this a "One week online Hands-on Research Oriented workshop on Design of Experiments", is planned to support the faculties and research scholars of various Engineering and Arts and Science Colleges. Design of

experiments will provide to optimize the experiment work in research. The applications of DOE are gaining an overwhelming response in almost all the research fields. The topics will cover basic introduction to DOE, Full Factorial Design, Multi Factorial Design, Response Surface Methodology, Taguchi Design, Robust Design, and Grey Relational Analysis.

OBJECTIVES

The participants will be able to acquire in-depth knowledge in Design of Experiments theory and practice using Minitab and Design Expert Software's. The program is intended for the faculties and Research Scholars of Engineering and Arts & Science Institutions /University /R&D centers.

EXPECTED OUTCOME

The participants will be able to

- Understand basic concept of DOE.
- ANOVA
- Full factorial design theory and practice using software.
- Multi factorial design theory and practice using software.
- Response Surface Methodology theory and practice using software.
- Robust Design theory and practice using software.
- Taguchi's Design theory and practice using software.
- Grey Relational Analysis theory and practice using software.

REGISTRATION FEE

The registration fee is Rs.500/- per participant. E-Certificate will be provided for all registered participants. Faculties and Research Scholars 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 11160100077683, IFSC Code: FDRL0001116, Bank Name: FEDERAL BANK LTD, Chemperi, Kannur, and Kerala. Any Quires please contact the coordinator Phone: 8300352566.

Registration Link

<https://forms.gle/z3PHN7d97KKwiZk69>

The last date for registration is 22-08-2022.



One week online Hands-on Research Oriented workshop on Design of Experiments

25.08.2022 - 01.09.2022



Convenor

Dr. S.Christopher Ezhil Singh, ME, VJEC

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Coordinators

Dr.P.Sridharan, ME, VJEC

Dr.Sreekanth MP, ME, VJEC

ORGANIZED BY



DEPARTMENT OF MECHANICAL ENGINEERING

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Accredited by NAAC and NBA

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