

THE COLLEGE

Vimal Jyothi Engineering College, Chemperi is a private self-financing engineering college coming under the Catholic Management with minority status, established in the year 2002 in the state of Kerala. It is ISO 9001:2015 certified and is affiliated to the APJ Abdul Kalam Technological University. The college was established along the hill valley of Malabar and is currently one of the largest self-financing engineering colleges in Kerala. The laboratories, workshops and library of the college are all well equipped with modern facilities suitable for learning and research.

MECHANICAL ENGG. DEPARTMENT

As manufacturing activities play a major role in the development of the country, Vimal Jyothi Engineering College envisaged the need for trained manpower in manufacturing and thus the undergraduate programme in Mechanical Engineering was started in the year 2004. Subsequently, department grew in several dimensions of academic excellence with time. All the laboratories of the department are well equipped for carrying out research, leading to Ph.D. Degree (full time and part time) by APJ Abdul Kalam Technological University. The department offers consultancy in manufacturing processes, design and analysis a range of products.

FACILITIES

In addition to the conventional laboratories, there are specialized laboratories in CNC, 3D printing, CAD/CAM and rapid prototyping.



MAILING ADDRESS

Coordinator:

Dr. R.Umesh Sundar

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Co-Coordinators:

Mr. Shaji George - AP/ME

Mr. Anil Johney - Technical Staff

Three day workshop on CNC Programming & Training in 3-axis CNC Vertical Milling Machine



Date: 28.10.2017 to 30.10.2017

Organised by

**Department
of
Mechanical Engineering**

**VIMAL JYOTHI ENGINEERING COLLEGE
CHEMPERI (PO), KANNUR- 670 632**

OBJECTIVES

- To introduce the participants to various CAD/CAM packages available for modeling and simulation and to provide them hands on training using suitable CAM software.
- To train the participants in the basics of CNC programming.
- To demonstrate the working and material removal process in CNC machining center.

COURSE CONTENTS

CAD/CAM Basics :

- Introduction to CAD/CAM software
- Introduction to Modeling and CAM concepts
- Selection of cutting parameters
- Tool path verification
- NC Code generation

CNC Programming :

- Introduction to CNC machines and machining parameters
- Axis nomenclature for milling machines
- Machine datum & Work datum
- Co-ordinate systems
- Fanuc Programming structure
- Fanuc Programming cycles- Drilling & Tapping
- Concept of cutter radius compensation



HANDS-ON TRAINING

- Machine specification and different parts of CNC VMC
- Machine control panel options FANUC oi-MD
- Operating modes in CNC – Jog, MDI, Auto etc.,
- Work and Tool set up in CNC VMC
- Tool offset parameter setting
- Wear offset register
- Programming incorporating cutter radius compensation
- Canned cycles programming

REGISTRATION

- ✓ Fill up the Google registration form to enroll your participation.
- ✓ Five students in a batch.
- ✓ For Internal student the registration fee Rs.750/- per candidate (20 students can register).
- ✓ *Registration fee for External College Students Rs.1000/- per candidate.
- ✓ Registration fee includes course material.
- ✓ ***Students have to produce a bonafide certificate.**

Limited seats (25 students only), this workshop is only for **'S7 Mechanical Engineering' students.*

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Registration Form

Name (s) : _____
Department : _____
Institution : _____
Address : _____
Phone : _____
(with code) _____
Fax : _____
E - Mail : _____

A Demand Draft* is enclosed for Rs. _____
No. _____ Dated _____

(* Drawn in favour of "Vimal Jyothi Engineering College" payable at **Kannur**)

Date:

Signature