



**GIDC Degree Engineering College**  
(Managed by GIDC Education Society)

**PMKVY**  
प्रधानमंत्री कौशल विकास योजना

## **CNC Operator-Vertical Machining Centre (VMC)**

प्रधानमंत्री कौशल विकास योजना(PMKVY) हेतु कोई પણ ट्युशन डी वगर सरकार मान्य सर्टीफिकेट मेणवो.

### **अभ्यासक्रम**

- ✓ CNC समजण
- ✓ मशीन स्टार्टअप(प्रोग्राम अेकटीवेशन)
- ✓ कोऑर्डिनेट सिस्टमनी समजण
- ✓ M-कोड अने G-कोडनी समजण
- ✓ टूल अने वर्कपीसनी समजण
- ✓ CAD/CAM सोफ्टवेरथी प्रोग्रामींग
- ✓ मशीन उपर ट्रेनिंग



आ योजना हेतु **CNC Operator** बनवा माटे सर्वश्रेष्ठ कोर्ष जे नोलेज अने सरकार मान्य सर्टीफिकेट आपी युवानोने रोजगारी मणी रहे अेवी उत्तम तक तदन मकत पुरी पाडशे.

### **जरूरी लायकात**

आ कोर्ष माटे ओछामां ओछुं धोरण-१० पास के तेथी वधु अभ्यास करेल कोई પણ रजुस्ट्रेशन करावी शके छे.

रजुस्ट्रेशन कराववा माटे संपर्क करो:

### **मीकेनिकल अेन्जनीयरीग डीपार्टमेन्ट**

ज. आर्. डी. सी. अेन्जनीयरीग कोलेज ,  
ब्लोक नं-६६७, गाम-अब्रामा, ता-जलालपोर, ज-नवसारी-३६५४०५.  
फ़ोन- ०२५३७ २२६०४० ई-मेल-gidcengcol@gmail.com

**CNC Operator-Vertical Machining Centre(VMC)-Level-3**

## About the Institute

GIDC Degree Engineering College (GDEC) at village Abrama, Taluka-Jalalpore, District-Navsari, is a joint venture of Government of Gujarat & Gujarat Industrial Development Corporation(GIDC), Gandhinagar under Public Private Partnership(PPP) scheme. The institute was established in 2012 and is managed by GIDC Education Society, Gandhinagar. The institute offers UG courses in Mechanical, Civil, Automobile, Computer and Electrical branch. The institute is approved by AICTE, New Delhi and affiliated to GTU, Ahmedabad. The mission of the institute is to endow with technical education at the UG levels to enrich the people of the country in present technical scenario. The vision of the institute is to grow as a premier education and research institute in the field of engineering with global view point and serving with world class standards conferring excellence to the engineering products through dedicated and competent engineers.

## About the Programme

The National policy for skill Development and Entrepreneurship, 2015 has projected a shortage of 109 million skilled persons by 2022 and called for an integrated effort to step up skilling of youth under the Pradhan Mantri Kaushal Vikas Yojana (PMKVY).

Keeping in view, it is decided by the Ministry of Human Resource Development that All India Council for Technical Education (AICTE), New Delhi will run the Pradhan Mantri Kaushal Vikash Yojana (PMKVY) to train the unemployed youth in Engineering skills through AICTE approved Engineering Colleges and Polytechnics. The Technical Institutes/Polytechnics have to utilize their existing infrastructure for offering these courses in the off-college hours such that the unemployed youth enrolled for

these courses shall acquire adequate skills under the National Skill Qualification Framework (NSQF) and find suitable **placement/self-employment**.

Under this program (PMKVY), GIDC Degree Engineering College (GDEC) Mechanical Engineering Department Organized **350hrs** training program for **CNC Operator – Vertical machining centers Level 3**. Anyone with minimum qualification of 10<sup>th</sup> pass can apply this course.

## Objectives of the scheme

The main objective of the Scheme is to impart Engineering Skills for 10 Lakh youth in the next three years. It is aimed to:

- (1) Encourage the institutions for making the best use of available infrastructure of higher education system during off hours for skill training.
- (2) Provide employable and certifiable skills based on National Occupational Standards (NOS) with necessary soft skills to the school dropouts who want to pursue/attain higher order skills and living in the vicinity of College.
- (3) Provide for up-gradation and certification of traditional/acquired skills of the learners irrespective of their age;
- (4) Provide opportunities for community-based life-long learning by offering courses of general interest to the community for personal development and interest;
- (5) Offer bridge courses to certificate holder of general/vocational education, so as to bring them at par with appropriate NSQF level.
- (6) Provide entrepreneurial orientation along with required skills, trained for self-employment and entrepreneurship development.
- (7) Provide Post Placement support, Tracking and Monitoring.

## GIDC Degree Engineering College Abrama, Navsari (Gujarat)



350 hrs course

Of

**“CNC Operator – Vertical machining centers ( VMC) Level 3”**

Sponsored by

**Pradhan Mantri Kaushal Vikas Yojana (PMKVY).**

**Organized by**

Mechanical Engineering Department

GIDC Degree Engineering College

Abrama, Navsari

**- : Address : -**

Block No.997, Village Abrama, Tal. Jalalpore  
Dist. Navsari- 396406.Gujarat, India.

Phone : +91 02637 229040

Email : [gidcengcol@gmail.com](mailto:gidcengcol@gmail.com)

## About Department

GIDC Degree Engineering College (GDEC) at village A bachelors programme in Mechanical Engineering was started in the Academic Year 2012-2013 with an intake of 60 students. The department offers four-year undergraduate program in Mechanical Engineering. Mechanical engineering is a discipline of engineering that applies the principles of physics and materials science for analysis, design, manufacturing, and maintenance of mechanical systems. It is the branch of engineering that involves the production and usage of heat and mechanical power for the design, production, and operation of machines and tools. It is one of the oldest and broadest engineering disciplines.

The engineering field requires an understanding of core concepts including mechanics, kinematics, thermodynamics, materials science, structural analysis, and electricity. Mechanical engineers use these core principles along with tools like computer-aided engineering and product lifecycle management to design and analyze manufacturing plants, industrial equipment and machinery, heating and cooling systems, transport systems, aircraft, watercraft, robotics, medical devices, and others. The most important asset of the department is the team of young, dedicated and well qualified faculty members. All the faculty members possess Masters degree in the various specialized fields of Mechanical engineering

## Brief Course Content

The methodology of training is starting from basic to advance to skill up graduation level and then we go on practical training on course relevant machine. We provide training of CNC machines of almost all controllers, through theory as well as practical which covers CNC Operating, Programming & Setting as CNC technology is the latest

technology in today's fast growing world. Apart from this, we also train to measure critical components of different machine with different kinds of measurement instruments. At the end of course project work is done by trainee in which trainee got self-confidence of making component independently.

- The course curriculum for all the courses offered has been specially designed keeping in mind the industry needs, advances in technology and a very practical approach to the subject.

- Institute arrange industrial visit and on job training for the students to get the exact scenario of the industry & update their knowledge as per the latest technology.

- Thus, we can say "Industrial atmosphere is offered to the trainees during hands on phase by which trainee learn to survive in industry with the help of skills, knowledge, attitude, willingness etc."

### Key learning points:

- Introduction of CNC
- Tool Selection and Work zero setup.
- Coordinate system configuration and explanation.
- M code and G code definitions and understanding.
- Proper tooling and fixture selection.
- Hands on practice on VMC .
- CAD/CAM Software use and benefits.

### PRACTICALS:

Participants will be trained in production grade VMC to understand the manufacturing techniques relevant to the industries.

**This certified course is provided free of cost and minimum qualification required is 10<sup>th</sup> pass.**

So Kindly Register yourself as early as Possible

At

Mechanical Engineering Department  
GIDC Engineering College Navsari,



## Organising committee

**Dr. K. N. Mistry**

Principal, GIDC Degree Engineering College  
Abrama, Navsari

**Dr. H.S.Patil**

HOD Mechanical Engineering Dept.,  
GDEC Navsari

**Dr. D.C.Patel**

Associate Professor Mechanical Engineering Dept.,  
GDEC Navsari  
Contact No: +91 9428146117

**Mr. H.B.Patel**

Assistant Professor Mechanical Engineering Dept.,  
Contact No: +91 9998515431