



**Ganpat  
University**

॥ विद्यया समाजोत्कर्षः ॥

**B. S. Patel  
Polytechnic**

# DIPLOMA IN MECHATRONICS ENGINEERING

## ABOUT US

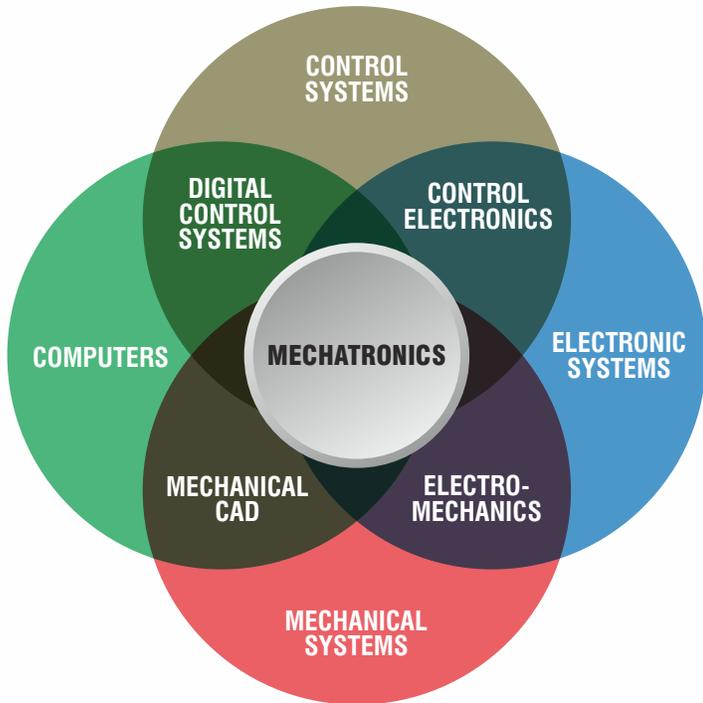
- Diploma in Mechatronics Engineering has been designed in accordance with the industrial advancement taking place in the country.
- The program offers the students an insight into design, development, manufacturing, and servicing industries. Not just this, students with an interest in mechanics and electronics are driven to put creativity and develop industry directed solutions.
- Diploma in Mechatronics Engineering aims to make the students capable to do automation in industries through the advanced and in-depth study of mechanics and electronics. Along with specialization in subjects such as Robotics, automation programming in PLC, Microcontroller, Lab View, G Code & M Code Programming for CNC Machine, Hydraulics & Pneumatics Circuit Building, Developing 2D & 3D model in different CAD Software.
- These would make them competent to gain recognition as a automation specialist in the industry, This well thought of curriculum involves theory as well as practical to make it an overall enriching and enjoyable experience for the young students.

## PROGRAM OUTCOMES

- The Mechatronics Engineering graduates are able to analyze, design, develop, test and apply automation principles, mathematical foundations in the development of computational solutions, make them to expert in the field of Industrial Automation.
- Develop their skills in Robotics, CNC Machines, Hydraulics & Pneumatics, Interfacing, Python, C-Programming, PLC, CAD programming and appraise environmental and social issues with ethics and manage different projects in inter-disciplinary field.



# WHAT IS MECHATRONICS ?



## ABOUT DEPARTMENT

- Department of Mechatronics Engineering was established in the year 2001, with the objective of imparting quality education in the emerging field of Mechatronics Engineering.
- The Department has laboratories equipped with ultra-modern equipments to cater the need of mechatronics engineers like six degree robot, Bosch Hydraulics trainer, PLCs of all well-known companies, CNC Machine and many more.
- Automation technology is developing by leaps and bounds and the department has always produced skilled and talented professionals to hold important positions.
- Well qualified, experienced and dedicated faculty is strength of the institute. The faculty ensures that the students acquire knowledge of latest trends in industries and also keep themselves abreast of latest research and development in their branch of specialization

## SCOPE OF EMPLOYMENT

Mechatronic Engineers can also find a place in global enterprises developing futuristic vehicles, challenging defence technology and revolutionising consumer products. They may also work in smaller innovative 'high tech' companies supplying software and equipment - and they could be product developers, work in manufacturing, or mining or defence industries, and in government and industry research groups. Therefore, being an emerging field, this program presents flexible opportunities for graduates. Some of the fields graduates could explore, include:

- **Automation and Robotics**
- **Design of Subsystems for Automotive Engineering**
- **Expert Systems and Artificial Intelligence**
- **Industrial Electronics and Consumer Products**
- **Manufacturing Systems Techniques**
- **Machine Vision**
- **Sensing and Control System**

## PLACEMENT PARTNERS



## B. S. PATEL POLYTECHNIC

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Aerial walk-through of University Campus  
 (300 acres lush green campus)