

Lab Equipped with YASKAWA GP8 Motoman Robot and it is Ideal for high-speed assembly and handling applications, the GP8 robot is fast and compact. Not only does this highly efficient robot offer the highest payload, fastest speed and highest wrist allowable moment in its class, but also it can be controlled by either the YRC1000 controller or the YRC1000micro controller. The YRC1000 utilizes the lightweight standard teach pendant or the easy-to-use touch screen Smart Pendant, and the YRC1000micro is available for use with the standard teach pendant. In addition This is a state of the art training facility in Pneumatics, Hydraulics and PLC Technologies at VJEC.



Having said that, the Robotics Club of VJEC strives to stimulate interest in robotics among the students of the institute. Besides making a serious endeavor to spread knowledge on Robotics. It is this exemplary virtue that has bound the club and helped it to grow to its present potential. It was initiated way back in 2009 under the tutelage of Prof. Sunil Paul (Department of Mechanical Engineering) and over the years it has diversified. The club today is an active platform for students to display and develop their practical machine building skills and knowledge.

Robotics club also organizes seminars and workshops in the broad fields of robotics and mechatronics periodically. It also acts as a resource center and workshop for final year projects. Each year robotics club is directly involved in minimum of twenty projects and indirectly involved in so many other projects. Robotics club is also into industry consultation projects.

| Some of the projects done in the robotics club in the past few years includes

- Crash proof autonomous multi-copter
- Prosthetic hand with controlled by EMG
- Animatronic robot
- Library automation robot

- Omni directional wheel chair
- Sounding rocket recovery payload module
- Automatic cooking machine
- Halo-generator unit
- Swirl shield rocket engine, static test bed.
- Voice controlled robotic arm
- Coconut climbing robot
- 3D printed prosthetic hand

