

ABOUT THE COLLEGE



PSG College of Technology established in 1951, is one of the many educational institutions nurtured by PSG & Sons' Charities Trust. The College is government - aided, autonomous, ISO 9001 certified and affiliated to Anna University. The institution has a strong alumni base, most of them occupying coveted positions in many educational, industrial and research organizations all over the world. PSG is one among the foremost of Institutes of national importance in higher technological education, engineering, basic and applied research. The college has established 48 Centres of Excellence in the campus in association with various leading industries.



ABOUT THE DEPARTMENT

The department of Robotics and Automation Engineering was established in the year 2011 in order to meet the growing demand for trained manpower in the field of Robotics and Industrial Automation. This unique program is tailored to develop superior quality robotics and automation talent for manufacturing, defense, food, medical aerospace and service sectors. The department draws teaching talent from industry and professional practice, apart from competent and committed academicians to enhance the quality of the program. A full-fledged centre for robotics is operational, which houses various kinds of robots. The Department has several laboratories and ten Centres of Excellence.

ABOUT THE PROGRAMME

The world needs robots for a countless number of reasons, including hazardous jobs and automated manufacturing. As more companies incorporate robotics into their operations, the demand for high paying careers related to industrial robots is increasing. The program trains students on how to program and operate the latest robotic automation. These programs significantly enhance student learning and provide training for real-world applications with real-world industrial robots.

ABOUT CIA

Centre for Industrial Automation(CIA) has been formed in PSG College of Technology to act as an interface between academia and industry in organizing quality training programmes, workshops and Conferences in the areas of Automation and Robotics. Automation plays an increasingly important role in the world economy and quality of life. The Centre for Industrial Automation also undertakes consultancy services, automated machine maintenance, and product development activities for automation and Robotics. Training programmes on Fanuc products as certified by Fanuc India Ltd.



PSG CENTRE FOR NONFORMAL AND CONTINUING EDUCATION

SHORT TERM COURSE ON

EMBEDDED SYSTEMS FOR ROBOTIC APPLICATIONS



DEPARTMENT OF ROBOTICS AND AUTOMATION ENGINEERING



CENTRE FOR INDUSTRIAL AUTOMATION
PSG COLLEGE OF TECHNOLOGY
COIMBATORE

ELIGIBILITY

- Diploma / UG/PG Engineering Students
- Industrial Engineers

COURSE FEE

Rs. 5 000/- (Fee Inclusive of Service Tax)

The registration fee include course materials, working lunch and refreshments.

GATE WAY TO REGISTER

Registration for the programme can be made by sending the duly filled in application form along with Demand draft drawn in favor of "PSG CNCE", payable at Coimbatore, or can be paid as cash before the last date of application



The details of this training programme is available in the website

www.psgtech.edu/

COURSE CONTENTS

- Introduction about Embedded system and Robotics
- Introduction about Basic Electronics
- Communication in Automation development
- Introduction about Sensors
- Hands on Practice on Embedded Programming Basics , Sensors Interfacing with controller, Logical Conditioning Programming, Introduction about Motors, Motor Control based on sensors input
- Mobile robot development
- PCB (Printed circuit board) design
- Line follow and obstacle avoid conditions in mobile robot
- Graphical programming software in Embedded System Development
- Introduction about Industrial automation and Robotics
- Introduction about PLC programming and its applications Mathematical functions applied in Embedded System Development / Robotic Automation / Industrial Automation.
- Demonstration given to Different types of Industrial robots at PSG – CoEWT
- Universal Robot (Six axis Articulated robot)
- Fanuc Welding Robot (Six axis Articulated robot)
- Fanuc pick and place robot (Six axis Articulated robot)
- TAL Robot (Five axis robot)
- ABB robot (Six axis Articulated robot)
- Systematic Robot (SCARA Robot)
- Hands on practice given to How to develop a specific industrial automation
- Introduction about CNC machines and FANUC-CNC Centre visit

COURSE COORDINATOR

Dr. B. Vinod / Mr. K. Selvaraj

PSG COLLEGE OF TECHNOLOGY COIMBATORE

EMBEDDED SYSTEMS FOR ROBOTIC APPLICATIONS

APPLICATION FORM

Name : _____

Qualification : _____

Experience (if any) : _____

Designation&Dept. : _____

Organization : _____

Address for : _____

Communication : _____

Office No. : _____

Mobile No. : _____

Email Id : _____

Demand Draft No. : _____

Bank Name : _____

Amount in Rs. : _____

The duly filled in application form may be send to Ms. K. Vidya

Centre for Industrial Automation
Dept. of Robotics and Automation Engg.

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