



THE COLLEGE

PSG College of Technology established in 1951, is one of the many educational institutions nurtured PSG & Sons' Charities Trust. The college is government - aided, autonomous, ISO 9001 certified and affiliated to Anna University. Equipped with latest facilities and excellent infrastructures, the college offers a total 60 full-time and part-time under-graduate and post graduate programs in Science, Engineering and Management.



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 among the foremost of Institutes of national importance in higher technological education and in engineering, basic and applied research. Currently more than 520 research scholars, both full-time and part-time are working for their Ph.D degrees in various disciplines. The college has established 45 Centres of Excellence in the campus in association with various leading industries.



THE DEPARTMENT

The department of Robotics and Automation Engineering was established in the year 2011 to cater the needs of modern manufacturing and automation industries. The department is well equipped with modern equipment's, CNC machines and PLC's. The course will be conducted by experts in the particular discipline from the industry and by the highly qualified faculty members of the department.

THE COURSE



In today's manufacturing industries it is essential to ensure that your engineering skills and knowledge of PLCs (Programmable Logic Controller) is up to date. Industrial PLC programming knowledge has become a fundamental requirement for engineers, to be successful in industries. This course provides a comprehensive training on basic skilled required for programming and managing of PLCs and SCADA systems.

FACILITIES

PSG -SIEMENS CENTRE OF EXCELLENCE IN AUTOMATION

□ Programming Logic Controllers

- Siemens S7 1200 Controllers
- Siemens S7 1500 Controllers



□ Human Machine Interface Systems

- KTP 600 Color PN
- KTP 600 Color DP
- KP300 Mono PN



□ SOFTWARES

- SIMATIC Totally Integrated automation
- SIMATIC WinCC Runtime Advanced
- SIMATIC WinCC Runtime Professional

□ DRIVES AND MOTION CONTROL

- Sinamics G120 Training kit
- V60 Servo Training kit



COURSE CONTENTS

- Introduction and Architecture of PLCs
- Hardware configuration of S7 1200 systems
- Over view of TIA portal
- Siemens S7 addressing
- Siemens S7 basic instruction set, compare, maths, data moves and logic functions
- Configuration and use of data blocks
- Time, counter and high speed counter
- PTO/PWM concepts
- Analog values process
- Motion control using servo
- Configuration of HMI
- Visualization system development using SCADA tools
- Graphics designer
- Alarm and Event system
- Internal and External tag management
- Report designer
- Communications
- Measured value processing
- Data logging
- Totally Integrated Automation (TIA) using SCADA



ELIGIBILITY

ITI / Diploma / BE in Mechanical / Electrical / Electronics / Mechatronics / Instrumentation / Production / Textile disciplines. Students who are doing diploma or BE in above disciplines are also eligible.

Course Fee:

For group registrations of minimum 20 students.

(Rs. 5000/- Student, Inclusive of Tax)

For Individual:

Rs 6000/-, Inclusive of Tax

Payment Mode: Cash/DD in favour of "PSG CNCE, PSGTECH" payable at Coimbatore.

Duration: 8 Days Full-Time /
1 Month, Part-Time



COURSE COORDINATORS

Dr. B. Vinod
Dr. M. Sundaram
msm@rae.psgtech.ac.in,
Mobile: 9487018281

FOR ADMISSION CONTACT

PSG -SIEMENS CENTRE OF EXCELLENCE
IN AUTOMATION, K303

Contact Person: Ms. K. Vidya
Phone : 8973509825
Mail : cia@psgtech.ac.in

<http://www.psgtech.edu/department/robotics>

OTHER SHORT-TERM COURSES

1. CNC Programming & Maintenance
2. Industrial Drives
3. Variable Frequency Drives for Energy Conservation
4. Design of Permanent Magnet & Reluctance Machines
5. Embedded System for Robotics
6. Industrial Robotics & Controls
7. Robofun
8. Robotech



ROBOTICS AND AUTOMATION
ENGINEERING

PSG COLLEGE OF
TECHNOLOGY

PSG -SIEMENS CENTRE OF
EXCELLENCE IN AUTOMATION



Announce
An Intensive Training Programme
on

PLC AND SCADA
SYSTEMS