

PSG POLYTECHNIC COLLEGE

PSG Polytechnic College, one of the oldest Polytechnic College in the country, has been in the vanguard of innovation in technician education ever since the institution was established in 1939. Polytechnic College has designed and implemented curriculum for various programmes in tune with the manpower requirement for rapid industrialization of the country

ABOUT THE DEPARTMENT

The Department of Foundry Technology was established in the year 1996 to cater the man power and R & D development to local foundries. The need for specialized foundry technicians were felt in late 1990's when the small and medium foundries in Coimbatore started coming. Department of Foundry Technology aspires to accomplish national recognition in the field of foundry and materials engineering by imparting technical skill sets to students and industries for development of society.

CONTINUING EDUCATION CELL

The Continuing Education Cell has been established in PSG Polytechnic College with the aim of updating and enhancing the knowledge of working professionals, students and entrepreneurs. It aims to serve the needs of variety of Industries, business and community.

COURSE CONTENT:

- Robot architecture
 - History of Robots
 - Types of Robots
 - Basics of Controller
 - Robot Terminology
 - Future prospects
- Robot Programming – Basics
 - Introduction to Industrial Robot
 - Parts of Robot
 - Types of Motion (Linear & Joint)
 - Different motion instructions (J, L, C)
 - Setting different frames in robots
- Program for Industrial Application
 - Program for pick and place
 - Different sets of Instructions set
- Robotic welding
 - Basics of welding
 - MIG Welding
 - TIG Welding
- Program for Industrial application
 - Program for welding application
 - Robot programming for circular pattern, Linear pattern, Weaving pattern
- Special feature of Welding
 - CMT Welding process (ALU & Thin Sheet)
Special welding machine application long seam, circle seam welding, Turbo Tig

- Carrier guidance
- Exam Written: (objective) & Viva-Voce with weld samples containing defects

ABOUT TRAINING IN INDUSTRIAL ROBOTIC WELDING:

Robotic welding training focuses on enhancing to train students on special feature and sharpening, their Robot programming, welding skills and techniques.

These robotic welding training systems help students learn how to weld using a variety of processes, including MAG welding (GMAW), MIG welding (GMAW) and CMT.

This course is designed to review and develop fundamental concepts of Industrial Robots that will apply the fundamental skills developed in Robotic Welding Applications; students will have wide opportunities to apply their new ideas and implement to optimize efficiency and repeatability.



Under the "Make in India" movement of the government of India, a centre of excellence in welding Engineering and Technology (CoEWT) is being established at PSG College of Technology, Coimbatore for promoting new manufacturing technologies in the field of welding.

This scheme is financially supported by the Department of Heavy Industries (DHI) towards accelerating the growth of the Capital goods sector. This scheme is being implemented by DHI under the public-private partnership concept towards developing new technologies in the field of welding automation, Advanced welding power sources and design and development of welding consumables for new materials.

CoEWT is also involved in Training & Certification

To deal with the every-Increasing competition faced by the industries, training and development plays a very important role. To cater to this, on-campus and customized doorstep certified programs are offered in Welding and Quality Engineering. The details of the program are posted in www.coew.psgtech.ac.in

CoEWT is also focused in Consultancy and Testing services with in house experienced experts are available to offer consultancy in Welding Process and Consumable Selection, Weld Design Review, Welding procedure Specification Qualification, fabrication methodology, residual stress analysis, weld distortion control, fusion and solid-state welding processes, preparation for ISO certifications and failure analysis.

ELIGIBILITY

Diploma and Engineering students of Mechanical / Foundry /Automobile disciplines are eligible to participate in the program

Course Fee : Rs.1000/-

PSG Student / Alumni : Rs.800/-

Registration Fee : Rs.50 /-

Payment Mode : Cash or DD in favour of
"The Principal,
PSG Polytechnic College"
Payable at Coimbatore

Date : 25th and 26th of August 2018

Duration : 2 Days, Full – Time

Timings : 9:00 am to 4:30 pm

CERTIFICATES

Certificates for the courses conducted by the cell are issued by the **Directorate of Technical Education, Govt. of Tamil Nadu.**

For further Details please contact:

MANAGER
Continuing Education Cell
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PSG POLYTECHNIC COLLEGE
(Autonomous and an ISO 9001 certified Institution)
Peelamedu, Coimbatore-641004
DEPARTMENT OF FOUNDRY TECHNOLOGY



**CENTRE OF EXCELLENCE IN WELDING ENGINEERING
AND TECHNOLOGY**

&



CONTINUING EDUCATION CELL

Announces

**A Value-added training programme on
"INTRODUCTION TO INDUSTRIAL ROBOTIC
WELDING"**

