

SMT. S.R. PATEL ENGINEERING COLLEGE

Smt. Sushilaben Rameshbhai Patel Charitable Trust (SRPCT) was established in the year 2008 for the purpose of carrying out various social services and establishing educational institutes to uplift the knowledge and skills of students to build their career. The trust started an engineering college **Smt. S. R. Patel Engineering College** in the year 2009 at Dabhi, about 4 km away from Unjha and about 28 km away from Mehsana.

The lush green campus is spread over in a 12 acre area. It blends beautifully with the green landscaping, varieties of flowers and trees and a vibrant pursuit of knowledge.

The spacious buildings, well equipped laboratories and a pool of qualified and experienced staff members show the dedication of the trust towards society.

The trust is involved in large numbers of social activities in North Gujarat region.

About E - Yantra Lab:

Project e-Yantra is an initiative to spread education in Embedded Systems and Robotics by IIT Bombay sponsored by Ministry of Human Resource Development through the National Mission on Education through ICT (NMEICT). This project was conceptualized by Prof. Kavi Arya and Prof. Krithi Ramamritham of the Department of Computer Science and Engineering at IIT Bombay.

Outcome of Project:

- Impart theoretical and programming knowledge to teachers through workshops
- Provide hands on training to teachers through regional e-Yantra Robotics Teacher Competition
- Help colleges set up their own Robotics labs.

COURSE EXPERT

Prof. Harshadkumar Patel

OBJECTIVES OF THE PROGRAM

The main objective of this workshop is to make the aspiring engineers acquainted with the conceptual as well as practical knowledge of the Automation system in machines and robotics.

- Introduction to AVR robot
- Introduction to AVR Microcontroller and Programming environment
- Motion control using I/O ports
- Robot velocity control using pulse width modulation
- Interrupt programming
- Closed loop position control of robot using position encoders
- Introduction to LCD interfacing
- Display of Data Array of eight elements on LCD
- Interfacing with white line sensors
- Robot programming for white line following
- Adaptive cruise control

HOW TO APPLY

The applicants are required to online registration along with the registration fees so as to reach the coordinator on or before 20th December, 2019.

For Online Registration:-

<https://goo.gl/forms/mOMBIZdTFm4JL7sF3>

COURSE REGISTRATION FEES

Rs. 200/- for Other Colleges students and Faculty

Lunch and Training Kits provided.

Fees can be paid by Cash/Demand Draft/Local Cheque.

COORDINATORS

For further details, contact:

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**Three days
Training Program
on**

“Automation Systems and Robotics”



23rd – 25th December, 2019

Sponsored By

Student Startup & Innovation

Policy, Govt of Gujarat

Smt. S. R. Patel Engineering College,

Unjha

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