

About SITCOE:-

It is matter of great pride and privilege to introduce our Institute. Shri.ShamraoPatil (Yadravkar) Educational & Charitable Trust's, Sharad Institute of Technology, College of Engineering, Yadrav (Ichalkaranji).SITCOE is Autonomous Institute, NBA accredited programs and NAAC 'A' grade Technical institution in the State of Maharashtra. SITCOE has been established in the year 2009 with a view to "Build a Bright Future" for the young people of the Rural part of our Country. The College is approved by AICTE, New Delhi, recognized by Govt. of Maharashtra i.e. DTE, Mumbai and affiliated to DBATU Lonere.

About Departments:-

The department of Automation and Robotics is going to start by the Institute from A.Y. 2021-22 with a UG program of intake capacity of 60 and A.Y. 2023-24 UG program of intake capacity of 120. This program is approved by AICTE, New Delhi and Affiliated to the DBATU, Lonere Automation and Robotics is established to meet the growing demand for trained engineers in the field of Robotics and industrial Automation.

The Mechatronics Engineering is established in the year 2020, offering Undergraduate program (B. Tech.) with an intake of 60 students each. This program is approved by AICTE, New Delhi and Affiliated to the DBATU, Lonere The department is having laboratories which are equipped with some of the state-of-the-art equipments like PLC systems of different manufacturer's, Department is transforming the current labs into Industry 4.0

The Department of Mechanical Engineering was established in year 2009. It currently offers under graduate program (60 Intake). The department is NBA Accredited and well packed with highly motivated and dedicated faculties. The department also provides center of excellence like Design and innovation Centre of Autodesk, and TATA Technology ready engineer's lab.

About FDP:-

- Focuses on smart systems engineering using PCB, IoT, and image processing
- Covers PCB design, sensor interfacing, and embedded hardware
- Introduces IoT communication and data acquisition
- Includes image processing and WEKA-based analytics
- Aligns with Industry 4.0 and OBE requirements

FDP Objectives:-

- To introduce smart systems engineering concepts
- To develop skills in PCB design and hardware integration
- To understand IoT systems and communication protocols
- To learn image processing and WEKA-based analytics
- To align with Industry 4.0 and OBE practices

Resource Persons:-

Well reputed resource person from Industry and Academic Background

Course Content:-

- Introduction to smart systems, Industry 4.0 concepts, interdisciplinary approach, and OBE relevance
- Fundamentals of PCB design including schematic capture, layout basics, multilayer concepts
- Embedded systems overview, microcontrollers, sensor and actuator interfacing, power management, and hardware integration
- IoT architecture covering devices, gateways, cloud and edge computing concepts
- Data handling, preprocessing, visualization, and IoT-based application development
- Image processing fundamentals including image acquisition, preprocessing, and feature extraction
- Machine learning concepts using WEKA for classification, clustering, and evaluation
- Industry Visit

Eligibility and selection criteria:-

Faculty members/Research Scholars from AICTE approved Engg. Degree colleges are eligible to participate, Industrial person.

Registration Fees: Nil

-Venue-

**Sharad Institute of Technology
college of Engineering , Yadrav**

Address: Gat No. 525, 473/A Behind Omkareshwar Temple, Yadrav, Kolhapur District, Ichalkaranji,

Registration Form

One week Faculty Development Program
in association with IQAC Cell

“Smart Systems Engineering: PCB, IoT & Image Processing”

05th Jan to 09th Jan 2026

Organized by

**DEPARTMENT OF
AUTOMATION AND ROBOTICS
MECHANICAL ENGINEERING &
MECHATRONICS ENGINEERING**

Name : _____

Qualification: _____

Designation: _____

Department: _____

Address for correspondence:

Mobile No.:

Email ID :

Sign. of participant:

Chief Patrons

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Chairman, Shri. Shamrao Patil (Yadavkar)
Educational & Charitable Trust

Hon. Shri. Anil A. Bagane
Executive Director, Shri. Shamrao Patil
(Yadavkar) Educational & Charitable Trust

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Dr. S. V. Kumbhar (Dean, Academics)

Mr. K. A. Patil (Dean, IIPG)

Dr. Sukanta Debanath (Dean, R&D)

Dr. S. S. Patil (Dean, Students affairs)

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Dr. S.D. Patil (Head, Mechanical Engg. Dept.)

Dr. P.A. Bajakke (Head, Mechatronics Engg. Dept.)

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Mr. A.A. Desai (Coordinator)

Dr. M M Khade (Coordinator)

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Shri. Shamrao Patil (Yadavkar) Educational &
Charitable Trust's

**SHARAD INSTITUTE OF
TECHNOLOGY, COLLEGE OF
ENGINEERING**

YADRAV

(ICHALKARANJI)

(An Autonomous Institute)

“NBA Accredited Institute”, “A grade accredited by
NAAC”, An ISO 9001:2015 Accredited Institute

**ISTE , TRS and IIC
Approved**



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on

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Engineering: PCB, IoT &
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