



JAYAWANT SHIKSHAN PRASARAK MANDAL'S
Rajarshi Shahu College of Engineering

S.No.80, Pune-Mumbai By Pass Highway, Tathawade, Pune-411033.

(An Autonomous Institute)

Affiliated to Savitribai Phule Pune University, Pune I.D.No :PU /PN /Engg./ 173(2001))
AISHE CODE C-41614

Prof.Dr.T.J.Sawant
B.E.(Elec.) PGDM, Ph.D
Founder-Secretary

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Dr.R.K.Jain
M.E.(Civil), Ph.D.(Engg)
LMISTE, MIE
Director

Mechanical Engineering Department Research Centre

Infrastructure Details

Research laboratories:

Research Laboratory has been set in the department to support and boost the research activities among the students. The main purpose of the research laboratory is to facilitate the support for on-going research. It provides services in product development. Research Laboratory is located in Room No. Secondly, the research laboratory also uses various modern equipment and facilities of departmental labs as per the requirement of project.

List of Software tools for research laboratory: 1. Ansys 2. CREO 3. MASTERCAM 4. MATLAB

Robotics Lab:

TAL This Lab established by TATA AUTOMATION LIMITED for innovative assessment and practicals. This is also used by B.Tech./ M.Tech. Project work as Innovative reference.

CNC VMC Laboratory: This lab is used for UG/PG related practical and research projects. Below are some Innovative products/works done using CNC/VMC.

Electro spinning Machine and VARTM Set up :

-RPS – Research Promotion Scheme Development of Fiber-Glass Composites using Vacuum Assisted Resin Transfer Molding (VARTM) with Interlaminar Nanofibers produced by Electro spinning. Testing the With and Without Nano-Layered FG composites Sponsored – RPS AICTE Delhi Rs 10Lakhs

Plagiarism: Turnitin

Note: Access to reputed online journals.



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CNC



ELECTROSPINNING MACHINE



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ROBOT



VMC



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VARTM SETUP



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E&TC Engineering Department Research Center

Infrastructural Details

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Research Laboratory has been set in the department to develop a research and stimulate an environment that supports research, innovation and creativity among the students. The main purpose of the research laboratory is to facilitate the support for on-going research. Research Laboratory has various modern equipment and facilities of departmental labs as per the requirement of project.

List of Software tools for research laboratory:

- Licensed MATLAB 2020
- Visual TCAD
- SIMICA:CMOS Circuit Design
- Plagiarism checking software: Turnitin
- OpenCV
- Maxfiles
- Radare2
- GNU Debuggers
- Cross Toolchain for Processors
- angr
- Binary Analysis tools
- Python
- Radare2
- Objdump
- NS2/NS3
- Libre office
- Scilab
- Octave
- OPNET/OMNET

Database:

- Traffic Database
- Noisy Hindi Database
- Brodatz texture album
- Firmware Repository
- PhysioNet
- Casia
- On-ISIR-8
- MiniMIAS- Mammogram UK database (330 images)
- DDSM – 2620 Mammogram powerful dataset



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- CBIS DDSM – 10K mammograms
- 16000 Audio Files of duration 2Hrs
- LanSat 7 Satellite Images Database
- Hand X-Ray images of Rheumatoid Arthritis etc.

Modern Equipments in Research laboratory:

- 20 MHz Dual Trace Analog Oscilloscope
- Spectrum Analyzer
- Logic Analyser 1683A-34Ch and 800 MHz
- RF Synthesizer Model
- Mixed Signal Oscilloscope
- Data Acquisition System
- 3.4 GHz Universal Frequency Counter
- Electro-Pneumatic Trainer
- Fiber Optic connection kit
- DSP Starter Kits
- Universal Spartan Kits
- PCB Prototype Machine

Reading material for research:

- IEEE
- DELNET
- Proquest
- Swayam
- Shodhganga
- E-yantra
- Access to IIT Kharagpur digital library (e- books)
- NPTEL Videos



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Infrastructure Details

Research laboratories:

Research Laboratory has been set in the department to support and boost the research activities among the students. The main purpose of the research laboratory is to facilitate the support for on-going research. Research Laboratory is located close to HOD office. Secondly, the modern equipment and facilities of departmental labs are always made available to research scholars.

List of Software tools for research laboratory: 1. Ansys 2. GRAM++ 3 MATLAB 4 Bentley softwares in the domain of Bridge design, Building design, Civil Design, Hydraulics and Hydrology, Infrastructure Asset performance, Mine Design, Modelling and visualization, offshore Structural Analysis, Plant Design, Project Delivery, Reality modeling and Structural Analysis.

Geotechnical Lab:

Facility of Horizontal shaketabe with 1 ton capacity.

CNC VMC Laboratory: This lab is used for UG/PG related practical and research projects. Below are some Innovative products/works done using CNC/VMC.

Facilities of other laboratory like Strength of Material Concrete laboratory, Transportation laboratory, Fluid Mechanics, Structural dynamics etc.

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Horizontal shake table



Concrete laboratory



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Structural Dynamics



Fluid Mechanics