

**SWARUPSUDARSHAN SHELKE**Course : **B.Tech**, Electrical, 2025

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CGPA : 8.09



ACADEMIC DETAILS					
COURSE	SPECIALIZATION	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
DIP	Electrical Engineering	Institute Of Petrochemical Engineering	Dr. Babasaheb Ambedkar Technological University	9.97 GRADE	2022
CLASS XII		Junior college of arts, commerce, science, Johe	Maharashtra State Board of Secondary and Higher Secondary Education (MSBSHSE)	72.83 %	2021
CLASS X		P.S.M.S English Medium School	Maharashtra State Board of Secondary and Higher Secondary Education (MSBSHSE)	83.8 %	2019

Subjects/ Electives	Power System Analysis, Control System, Electrical Machines, Standardization Of Products (ISI mark, Hallmark, Ecomark), PLC, Power Electronics, Renewable Energy, Signal Processing, MicroController, Finance
	Tinkercad, SolidWorks, MATLAB, PLC Allen Bradley, Electrical Machine Design, Altium Designer, Proteus, Arduino, AutoCAD, Fusion 360, Eagle PCB, PLC Programming

PROJECTS	
Solar Sync Powering Tomorrow- Power Electronics	Jan 2024 - May 2024
Our kit offers a versatile portable power solution for outdoor activities. It includes a battery system rechargeable via solar panels or grid supply, an inverter, and a DC-to-variable DC converter. With a user-friendly display for real-time monitoring, it ensures reliable power for mobile devices and appliances in remote areas, enhancing convenience and reducing reliance on traditional power sources.	
PLC Based Transformers Fault Detection and Protection- Power Transmission	Mar 2022 - Jun 2022
Implemented a PLC-based system for transformers, ensuring real-time fault detection and automated protection against overvoltage, undervoltage, and overcurrent, temperature rise issues. Enhanced operational reliability and efficiency through advanced control mechanisms.	
Soft Starter and Motor Controlling- Machines	Mar 2023 - Jul 2023
Executed a project centered around soft starters and motor control, aiming to refine motor performance by employing gradual voltage ramp-up during startup to mitigate stress. The project emphasizes the utilization of advanced control mechanisms to improve efficiency, diminish wear, and prolong the operational life of motors.	
Ultrasonic Distance Meter - Electronics	Nov 2022 - Feb 2023
Developed using ultrasonic waves for precise and contactless distance measurements. The project involved hardware and software design, calibration for accuracy, and a user-friendly interface, with applications in diverse fields.	

SUMMER INTERNSHIP/ WORK EXPERIENCE	
Intern, Bureau of Indian Standards	Jun 2024 - Aug 2024
During the internship at the Bureau of Indian Standards, I assisted in developing and reviewing national standards, conducted research and data analysis for standardization projects, and contributed to a major project on consumer safety standards.	
Intern, Yog Electricals	Jul 2022 - Oct 2022
Led an industrial training program on electrical machine and pump maintenance. Hands-on experience in troubleshooting and optimizing performance. Emphasis on practical skills for efficient operation and preventive maintenance, ensuring readiness for real-world challenges.	
Faculty National Computer	Jan 2022 - Oct 2022
Dedicated instructor offering AutoCAD courses at National Computer. Provided comprehensive training, blending theory and practical applications. Equipped students with essential skills for efficient and precise computer-aided design.	

Intern, ALCHEMYLABORATOR\$VT.LTD	Jul 2021 - Aug 2021
Completed an internship in Alchemy Laboratories where I acquired practical experience in troubleshooting and maintaining electrical systems. This hands-on role involved working on various aspects of electrical infrastructure to ensure optimal functionality and reliability.	

CERTIFICATIONS	
CERTIFICATION	CERTIFYINGAUTHORITY
Autocad	KLic MKCL
MSCIT	MKCL

POSITIONOFRESPONSIBILITY	
Secretary- RocketPropulsionCenter	May 2024 - Present
Responsible for organizing meetings, managing communications , maintaining records, and supporting project planning and execution. Facilitates smooth operations and fosters effective collaboration within the center.	
ControlSystemHead - RocketPropulsionCenter	May 2023 - May 2024
Design and implement control systems for motor, load cell, ignitor circuit , and sensors. Collaborate with multidisciplinary teams for precise guidance and stability in rocket launch. Develop algorithms , conduct simulations , and optimize parameters for mission success.	
AutomationLab Developer- Institute Of PetrochemicalEngineering	Mar 2022 - Jun 2022
I made an crucial contribution in developing an industrial automation lab in Electrical Department in IOPE, Lonere. Which Includes PLC Controlled DOLstarter, star-delta starter, lift , water level controller, bottle filling plant,etc	
Coordinatorof AluminiOutreachGroupzest - Collegeof EngineeringPune	Dec 2022 - Feb 2023
Coordinated alumni initiatives , fostering connections , Strengthened alumni community engagement, Effective leadership in alumni outreach efforts .	

COMPETITIONS	
S.P.I.T InnovationCup23	Apr, 2023
Presented a visionary project: a Medical Virtual Box for customized vision therapy. Utilizing advanced technology to enhance the visual experience for eye patients, the presentation highlighted its potential impact on improving vision outcomes .	
TechFai22	May, 2022
Presented a paper on Electric Vehicles . Explored critical aspects such as battery technology, charging infrastructure , and sustainability . Demonstrated expertise in the dynamic field of electric mobility.	
TechnoPro2022	May, 2022
Presented my project on PLC-based Transformer Fault Detection and Protection at the competition . Utilizing advanced control systems for efficient detection and mitigation of transformer faults , highlighting expertise in automation and electrical engineering.	

CONFERENCESANDWORKSHOPS	
Learn to Design Your Own Solar Home System	
Organized by: EnergyLiteracyDriveof the EnergySwarajFoundation Date: Jun 2020	
Nuclear Power for SustainableDevelopment	
Organized by: IRETM; Pt. RavishankarShuklaUniversity Date: Sep 2021	
Two Week OnlineWorkshopon AutoCAD	
Organized by: Institute Of PetrochemicalEngineeringand DepartmentOf ElectricalEngineering Date: Aug 2020	
EnergyConservation& EnergyEfficiencyfor EducationSector	
Organized by: Bureauof EnergyEfficiency(BEE, New Delhi & MaharashtraEnergyDevelopmentAgency(MEDA), Pune Date: Dec 2021	
EnergyConservation	
Organized by: Institution'sInnovationCouncil(IIC) and Departmentof ElectricalEngineeringof VPM'sMaharshiParshuramCollegeof EngineeringVelneswar Date: Dec 2021	

VOLUNTEEREXPERIENCE	
PHOENIXby DepartmentOf ElectricalEngineering IOPE - Role: Organizer Cause: Education	Jul 2022 - Jul 2022
Organized a two-week AutoCAD workshop at IOPE, covering basic to advanced skills . Featured industry speakers, hands-on projects , and awarded certificates for successful completion . Positive feedback emphasized the workshop's impact on practical design applications and skill enhancement.	

LANGUAGESKNOWN	
English,Marathi,Hindi,German	

EXTRACURRICULAR ACTIVITIES

Sports

State Level Swimmer, Runner up in district level running

Technical

Conducted a Workshop on AUTOCAD in Institute Of Petrochemical Engineering, Lonere.