



Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus

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Faculty of Polytechnic



DEPARTMENT OF ELECTRICAL ENGINEERING

Class: SY

Academic Year: 2024-25

Sem: Odd

Subject: Fundamental of Power Electronics (313335)

Program Outcome:

PO1: Basic and Discipline specific knowledge: Apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering problems.

PO2: Problem analysis: Identify and analyse well-defined engineering problems using codified standard methods.

PO3: Design/ development of solutions : Design solutions for well-defined technical problems and assist with the design of systems

PO4: Engineering Tools, Experimentation and Testing: Apply modern engineering tools and appropriate technique to conduct

PO5: Engineering practices for society, sustainability and environment: Apply appropriate technology in context of society, sustainability, environment and ethical practices

PO6: Project Management: Use engineering management principles individually, as a team member or a leader to manage projects

PO7: Life-long learning: Ability to analyse individual needs and engage in updating in the context of technological changes.

Program Specific Outcomes:

PSO1: Electrical Equipment: Maintain various types of rotating & Static Electrical Equipment

PSO2: Electrical Power System: Maintain different types of electrical power system

Course Outcome:

E313335_CO1 Test the functionality of a given power electronic device.

E313335_CO2 Test the switching performance of a thyristor.

E313335_CO3 Test the performance of given controlled converter.

E313335_CO4 Test the performance of given chopper.

E313335_CO5 Use suitable power electronic circuit for given application.

CO-PO Mapping:

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2
E313335_CO1	3	2	-	3		-	3	2	
E313335_CO2	3	2	1	3		-	2	2	
E313335_CO3	3	2	2	3		1	2		2
E313335_CO4	3	2	2	3		2	2		2
E313335_CO5	2	3	2	2	2	2	2		2
Average of PO	2.80	2.20	1.75	2.80	2.00	1.67	2.20	2.00	2.00
Average of PO Mapping in %	93.33	73.33	46.66	93.33	13.33	55.56	73.33		

Course Coordinator

Academic Coordinator

HOD

Vision of Program

To empower the students' abilities of academic, technical and professional competence in the field of Electrical Engineering and to nature them in the developing areas to help the society.

Mission of Program

M1: To provide adequate knowledge in the field of Electrical Engineering to take the real time Challenges with professional skills.

M2: To improve continuous learning skills to meet employability objectives.

M3: To communicate strong ethical qualities between students for helping the society.