



Yashoda Bhikshan Prasad Mandal's  
**Yashoda Technical Campus**

Approved by AECTB, Delhi/ Govt. of Maharashtra  
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Faculty of Polytechnic



**DEPARTMENT OF ELECTRICAL ENGINEERING**

Academic Year: 2024-25  
Subject: Switchgear & Protection (22524)

Class: TY  
Sem: Odd

**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:**

E22524_a	Identify Various types of faults in power system
E22524_b	Select Suitable Switchgears for Different applicatio
E22524_c	Test the Performance of different Protective Relay
E22524_d	Maitain Protection Systems of alternators and transformer
E22524_e	Maitain Protection Schemes of motors and transmission line
E22524_f	Maitain Protection Schemes for power system against overvoltage

**CO-PO Mapping:**

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2
E22524_a	3	3	2	2	1	3	2	-	3
E22524_b	3	3	3	2	1	2	2	-	3
E22524_c	3	3	2	2	-	2	2	2	3
E22524_d	3	3	2	2	1	2	1	2	3
E22524_e	3	3	2	2	1	2	1	2	2
E22524_f	3	3	3	2	1	2	-	2	3
Average of PO	3.00	3.00	2.33	2.00	1.00	2.17	1.60	2.00	2.83
Average of PO Mapping in %	100.00	100.00	77.78	66.67	33.33	72.22	53.33	66.67	94.44

*[Signature]*  
Course Coordinator

*[Signature]*  
Academic Coordinator

*[Signature]*  
HOD

**H.O.D.**  
Electrical Polytechni  
YSPM's YTC, Satara

**Vision of Program**

To empower the students' abilities of academic, technical and professional competence in the field of Electrical Engineering and to nurture 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.

