

**VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)
DEPARTMENT ELECTRICAL AND ELECTRONICS ENGINEERING**

**List of professional electives for M.E. (PSPE) offered by the Department of Electrical & Electronics
Engineering
AY 2022-23**

PROFESSIONAL ELECTIVES-POWER SYSTEMS:

1. PI23PEX10EE - Advanced Synchronous Machine Theory
2. PI23PEX20EE - Advanced Power System Protection
3. PI23PEX30EE - Real Time Applications in Power Systems
4. PI23PEX40EE - High Voltage D.C. Transmission
5. PI23PEX50EE - Renewable Energy Sources
6. PI23PEX60EE - Reliability Modeling in Power Systems
7. PI23PEX70EE - Energy Management
8. PI23PEX80EE - Swarm Intelligence Applications to Power Systems
9. PI23PEX90EE - High Voltage Engineering
10. PI23PEX14EE - Distributed generation and micro grids
11. PI23PEX24EE - Power System Analysis
12. PI23PEX34EE - AI Applications to Power Systems
13. PI23PEX44EE - Digital Protection of Power Systems
14. PI23PEX54EE - Electrical Power Distribution System
15. PI23PEX64EE - Wind and Solar Systems
16. PI23PEX74EE - Smart Grid Technologies

PROFESSIONAL ELECTIVES-POWER ELECTRONICS

1. PI23PEX94EE - Power Semi-Conductor Devices Circuits
2. PI23PEX15EE - Machine Modeling and Analysis
3. PI23PEX25EE - Power Quality Engineering
4. PI23PEX35EE - Switched Mode power conversion
5. PI23PEX45EE - PWM converters and applications
6. PI23PEX55EE - Static Control of Electric Drives

7. PI23PEX65EE - Application of Micro controllers to Power electronics
8. PI23PEX75EE - Power Electronic Control of DC Drives
9. PI23PEX85EE - Power Electronic Control of AC Drives
10. PI23PEX95EE - Digital Control of Power Electronics and Drive systems
11. PI23PEX16EE - SCADA Systems and Applications
12. PI23PEX26EE - Electric and Hybrid Vehicles
13. PI23PEX36EE - Static VAR Controllers and Harmonic Filtering

PROFESSIONAL ELECTIVES (COMMON TO POWER SYSTEMS & POWER ELECTRONICS)

1. PI23PEX76EE - Advanced Microprocessors Systems
2. PI23PEX86EE - Digital Control Systems
3. PI23PEX96EE - Programmable Logic Controllers & Applications
4. PI23PEX17EE - Modern Control Theory
5. PI23PEX27EE - Microcontrollers