



SSGMCE SHEGAON
DEPARTMENT OF ELECTRICAL ENGINEERING

COURSE OUTCOMES OF ALL COURSES OF SIXTH SEMESTER
BE ELECTRICAL (ELECTRONICS & POWER)

6EP01 POWER ELECTRONICS

After completing this course, student will be able to

1. Explain the knowledge about fundamental concepts and techniques used in power electronics
2. Analyze various single phase and three phase power converter and Inverter circuits
3. Analyze the operation of DC/DC and AC/AC converter circuits
4. Implement industrial applications of power electronic circuits.

6EP02 ELECTRICAL ENERGY DISTRIBUTION & UTILIZATION

After completing this course, student will be able to

1. Demonstrate the knowledge of distribution substation
2. Compare different power distribution systems
3. Describe elements of distribution Automation system
4. Select proper electrical drive for industrial applications
5. Explain the working of electric traction system
6. Design an illumination system for various locations

6EP03 COMPUTER AIDED ELECTRICAL MACHINE DESIGN

After completing this course, student will be able to

1. Apply the suitable method for Computer aided machine design & select the proper material .
2. Design the single phase & three phase transformer.
3. Evaluate the performance of the transformer from its design data
4. Design the three phase Induction motor
5. Develop the computer program for design of transformer and three phase IM

6EP04 ADVANCE CONTROL SYSTEM (Professional Elective – II)

After completing this course, student will be able to

1. Design compensator using time and frequency domain specifications
2. Analyze the system using state space Model
3. Apply Z Transform to analyse Digital systems
4. Analyze the Nonlinear systems

6EP04 PROCESS CONTROL SYSTEMS (Professional Elective – II)

After completing this course, student will be able to

1. Explain the various Electronic Instruments for measurement of electrical parameters.
2. Analyse the different signals
3. Demonstrate the signal counting, recording and working of digital readout devices.
4. Demonstrate the Various techniques of A/D and D/A conversions.
5. Apply various signal processing tools as per requirement
6. Develop ladder diagrams & programmes for PLC

6EP05 ENERGY AUDIT & MANAGEMENT (Open Elective - II)

After completing this course, student will be able to

1. Discuss energy scenario and it's management.
2. Conduct the energy audit of different systems.
3. Determine the economics of energy conservation
4. Discuss various energy Conservation methods & their case studies
5. Explain fundamentals of Harmonics.

6EP05 ELECTRICAL ESTIMATING & COSTING (Open Elective – II)

After completing this course, student will be able to

1. Understand methods of installation and estimation of service connection
2. Decide type of wiring, its estimation and costing for residential building
3. Carry out electrification of commercial complex, factory unit installations
4. Design & estimate for feeders & distributors
5. Understand contract, tendering and work execution process.