Holy-wood Academy's

Sanjeevan Engineering and Technology Institute, Panhala

DEPARTMENT OF ELECTRICAL ENGG.

[DBATU SYLLABUS] THIRD YEAR SEM-05

Subject with Code: - BTEEC501: ELECTRICAL MACHINE-II

Course Outcomes:-

1. To study different methods of speed control of AC and DC motor.
2. To study importance and procedure of different performance test on AC and DC motor.
3. To determine different operating characteristics of AC and DC machines.

Subject with Code: - BTEEC502: POWER SYSTEM-II

Course Outcomes:-

1. To study different parameters of power system operation and control
2. To study load flow and Diff. methods of reactive power control.
3. To understand diff. methods of fault analysis and stability study

Subject with Code: - BTEEC503-.MICROPROCESSOR AND MICRO CONTROLLER

Course Outcomes:-

4. To know the architecture of 8085 and 8051.
5. To understand interfacing and interrupt features of 8085 and 8051.
6. To develop program for basic applications.

Subject with Code: - BTHM 504: VALUE EDUCATION, HUMAN RIGHTS AND LEGISLATIVE PROCEDURES

Course Outcomes:-

1. To understand value of education and self-development
2. To develop good values and character
3. To know Human right and legislative procedure

Subject with Code: - BTEEE 505: ELECTIVE- IV: 1. ILLUMINATION ENGINEERING

Course Outcomes:-

1. To get the detailed information about modern lamps and their accessories.
2. To get detailed insight of indoor and outdoor illumination system components, its controls and design aspect.
3. To know the requirements of energy efficient lighting.
4. To introduce the modern trends in the lighting.

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Subject with Code: - BTEEE 505 ELECTIVE- IV: 2. ADVANCES IN RENEWABLE ENERGY SYSTEMS

Course Outcomes:-

1. To know the principle of energy conversion technique from biomass, geothermal & hybrid energy system.
2. To understand effects of air pollution and ecosystems.

Subject with Code: - BTEEOE 506: ELECTIVE-V 2 POWER PLANT ENGINEERING.

Course Outcomes:-

1. To review basic components of power system, energy sources.
2. To understand principle of construction and operation of different conventional power plants.

Subject with Code: - BTEEOE 506: ELECTIVE-V. 3. DESIGN AND ANALYSIS OF ALGORITHMS

Course Outcomes:-

1. To know fundamental characteristic of an algorithm.
2. To understand strategy of algorithm formation.
3. To develop different algorithm.

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[DBATU SYLLABUS] THIRD YEAR SEM-06

Subject with Code: - BTEEC501: ELECTRICAL MACHINE-II

Course Outcomes:-

1. To understand the behavior of nonlinear control system.
2. To design and analyze PID controller.
3. To understand and analyze state variable technique.
4. To design and analyze suitable control system for engineering application.

Subject with Code: - BTEEC602 PRINCIPLES OF ELECTRICAL MACHINE DESIGN

Course Outcomes:-

1. To understand principles of electric machine design.
2. To design different components of electric machine.
3. To design Transformer
4. To understand CAD and use it for transformer design

Subject with Code: - BTEEC603 POWER ELECTRONICS

Course Outcomes:-

1. To review principle of construction, operation and characteristics of basic semiconductor devices
2. To understand and analyze performance of controlled and uncontrolled converters.
3. To understand and analyze performance of DC to DC converters. Dc to AC converters.
4. To understand and analyze performance of AC voltage controllers.

Subject with Code: - BTEEE604: Elective-VI: 1. INDUSTRIAL AUTOMATION AND CONTROL

Course Outcomes:-

1. To understand construction and working principle of different industrial measurement systems
2. To understand new trends in industrial process control.

Subject with Code: - BTEEE604: Elective-VI: 2. DESIGN OF EXPERIMENTS

Course Outcomes:-

1. To understand experimental design principles.
2. To understand different experimental design used in industry.
3. To deign computer experiments to use with engineering problems.

Subject with Code: - ELECTIVE-VI: 3. ARTIFICIAL NEURAL NETWORK.

Course Outcomes:-

1. To review basic principles of neuron structure.
2. To understand building blocks artificial neural network.
3. To understand different networks of ANN
4. To develop different algorithm for learning.
5. To study and understand Fuzzy neural networks.

Subject with Code: - BTEEE605 ELECTIVE-VII 1. SWITCH GEAR AND PROTECTION

Course Outcomes:-

1. To understand principles of protective relaying.
2. To understand principle of construction, operation and selection of different type of circuit breaker used in power system.
3. To understand different protection schemes used in power system operation

Subject with Code: - BTEEE605 ELECTIVE-VII 2. COMPUTER AIDED ANALYSIS AND DESIGN

Course Outcomes:-

1. To study different computer aided tools in engineering application.
2. To understand the functionality of different engineering software.
3. To apply different software in engineering design.

Subject with Code: - BTEEE605 ELECTIVE-VII 3. MECHATRONICS

Course Outcomes:-

1. To understand concept of Mechatronics.
2. To understand sensor and transducer construction and operation.
3. To understand microprocessor architecture and operation.
4. To understand principle of construction and operation of PLC
5. To design a robo for engineering application.

Subject with Code: - BTEEOE606 ELECTIVE- VIII. 1. RURAL TECHNOLOGY AND COMMUNITY DEVELOPMENT.

Course Outcomes:-

1. To analysis data, information and knowledge.
2. To understand concepts of marketing.
3. To identify projects and work for community development
4. To understand and analyze business model.

Subject with Code: - BTEEOE606 ELECTIVE- VIII. 2. PROJECT MANAGEMENT

Course Outcomes:-

1. To understand concepts of project management.
2. To develop a project plan.
3. To understand the project implementation strategy.
4. To analyze post project affects.

Subject with Code: - KNOWLEDGE MANAGEMENT

Course Outcomes:-

1. To understand different components knowledge management.
2. To conduct knowledge audit and knowledge management practices in organization.