

COURSES TAKEN IN ELECTRICAL ENGINEERING

Academic Year 2018/2019

COURSE GUIDELINE

CORES

- 1. Entrepreneurship
- 2. Intrapreneurship
- 3. Calculus
- 4. Chemistry
- 5. Linear Algebra
- 6. Physics-1: Mechanics
- 7. Physics-2: Electromag netism, Wave, and Optics
- 8. Physics 3: Thermal Physics
- 9. Physics4: Quantum Physics

- 10. Digital Systems
- Fundamentals of Electrical Engineering
- 12. Engineering Economy and Management
- 13. Engineering Mathematics
- Engineering Electromag netics
- 15. Environmental Awareness
- 16. Linear Circuit Analysis
- 17. Engineering Programming

- 18. Linear Circuit Analysis
- 19. Object-Oriented Programing
- 20. Instrumentation Electronics
- 21. Semiconductor Device Physics
- 22. Digital Signal Processing
- 23. Research Methodology for Engineering
- 24. Probabilistic System Analysis
- 25. Electronic Circuit Design Analysis

ELECTIVES COURSES

- 1. Artificial Intelligence
- 2. Mechatronics
- 3. Sensors and Measurements
- 4. Microwave Circuits and Systems
- 5. Radar and Navigation Systems
- 6. Satellite Communications
- 7. Electric Power Purchase and Transaction
- 8. Environmental Policy and Regulation
- 9. Renewable Energy
- 10. IC Technology and Design
- Real-Time Software Engineering
- 12. Real-Time Operating Systems

CONCENTRATION IN CONTROL SYSTEMS

- 1. Digital Control System
- 2. Linear System
- Feedback and Control System
- 4. Robotic Design
- Fuzzy Logic and Neural Networks
- 6. System Modeling and Identification

CONCENTRATION IN COMMUNICATION SYSTEMS

- 1. Communication Systems
- 2. Fiber-Optic Communications
- 3. Telecommunication Networks
- 4. Mobile and Wireless Communications
- 5. Transmission Lines
- 6. Antenna and Propagation

CONCENTRATION IN POWER SYSTEMS

- 1. Electrical Power Engineering
- 2. Electric Machinery
- 3. Power Electronics
- 4. Power Operation and Control
- 5. Power Transmission and Distribution
- 6. Relay and Protection System

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CONCENTRATION IN ELECTRONIC AND EMBEDDED SYSTEMS

- Introduction to Embedded System Design
- 2. Computer Architecture
- 3. Microcomputer Interfacing
- 4. Computer Organization
- 5. Microelectronic Devices
- 6. Computer Networks





