HAJVERY UNIVERSITY COURSE OUTLINE

OE

ELECTRICAL ENGINEERING

FIRST YEAR

SEMESTER 1

- 1. Workshop practice
- 2. Basic Mechanical engineering
- 3. English-I
- 4. Applied Calculus
- 5. Islamic studies/Ethics.

SEMESTER 2

- 1. Applied physics
- 2. Linear Algebra
- 3. English-II
- 4. Computer Fundamentals
- 5. Engineering Ethics
- 6. Pakistan Studies

SECOND YEAR

SEMESTER 3

- 1. Instrumentation and Measurements
- 2. Communication Skills
- 3. Electronic Devices and Circuits
- 4. Object Oriented Programming
- 5. Differential Equations

SEMESTER 4

- 1. Electro -mechanical systems
- 2. Digital logic design
- 3. Electrical Network Analysis
- 4. Engineering Economics
- 5. Complex Variables and Transforms

THIRD YEAR

SEMESTER 5

- 1. Electromagnetic Field Theory
- 2. Signals and systems
- 3. Probability and statistics for engineers
- 4. Social Sciences -II
- 5. Introduction to Power Engineering

SEMESTER 6

- 1. Numerical Analysis
- 2. Engineering Management
- 3. Applied thermodynamics
- 4. Computer Aided Design and Simulation
- 5. Elective I

FOURTH YEAR

SEMESTER 7

- 1. Microprocessor based systems
- 2. Linear Control Systems
- 3. Elective II
- 4. Elective III
- 5. Senior Design Project -I

SEMESTER 8

- 1. Senior Design Project II
- 2. Elective 4
- 3. Elective 5

NOTE:

EE-421 is the final year project which will spread over two semesters starting semester -7. ELECTRONIC ENGINEERING(ELECTIVE SUBJECTS)

- 1. VLSI design
- 2. Industrial process control
- 3. Digital electronics
- 4. Digital instrumentation
- 5. Opto-electronics
- 6. Industrial electronics
- 7. Power electronics
- 8. Digital signal processing
- 9. Digital system design
- 10. Electromagnetic compatibility