

BACHELOR OF ENGINEERING (HONOURS) ELECTRONICS MAJORING IN TELECOMMUNICATIONS

Engineering Subjects

YEAR 1

- Computer and Program Design
- Algorithm & Data Structure
- Circuit Theory
- Field Theory
- Engineering Mathematics I
- Engineering Mathematics II
- Electronics I
- Electronics II
- Digital Logic Design
- Electronics III
- Instrumentation & Measurement Techniques
- Introduction to Machines & Power Systems

YEAR 2

- Computer Organization & Architecture
- Data Communications & Computer Networking
- Microcontroller & Microprocessor Systems
- Circuits & Signals
- Engineering Mathematics III
- Electromagnetics Theory
- Control Theory
- Analog Communications
- Information Theory & Error Coding

YEAR 3

- Communications Electronics
- Project Management for Engineers
- Antenna & Propagation
- Electromagnetic Interference
- Design Project
- Multimedia & Communications Networks
- Digital Communications
- Industrial Training

YEAR 4

- Mobile & Satellite Communications
- Digital Signal Processing
- Project

Elective Modules (Choose one from each group)

Elective 1

- Knowledge-based Systems
- Advanced Microprocessors
- Embedded System Design
- Practical FPGA Design & Interfacing
- Optoelectronics & Optical Communications

Elective 2

- Telemedicine Technology
- Java Technology
- Object Oriented Programming with C++
- Random Processes & Queueing Theory
- Semiconductor Packaging & Test
- Imaging Radar System
- Digital Wireless Communications

Elective 3

- Parallel Processing & Programming
- Radar System Design & Analysis
- Data & Multimedia Networking

University Subjects and Mata Pelajaran Umum (MPU)

Communication Skills/Law/Ethics

- Workplace Communications
- Law for Engineers
- Engineer and Society

MPU U1

- Tamadun Islam & Tamadun Asia (Local)
- Hubungan Etnik (Local)
- Bahasa Komunikasi 2 (International)
- Pengajian Malaysia 3 (International)

MPU U2

- Bahasa Kebangsaan A / Any subjects in U2 (Local)
- Any subjects in U2 (International)

MPU U3

- Business and Entrepreneurship in Malaysia

MPU U4

- Co-Curriculum