BACHELOR OF ENGINEERING (HONS) ELECTRONICS MAJORING IN OPTICAL ENGINEERING

**Course Structure**

- **Year 1:**
  - T1: EEM1006 Engineering Mathematics I (3 credits)
  - T2: EEN1006 Electronics I (3 credits)
  - T3: ECT1006 Circuit Theory (3 credits)
  - T4: ECT1026 Field Theory (3 credits)

- **Year 2:**
  - T1: ECP1016 Computer and Program Design (3 credits)
  - T2: EEN1026 Electronics II (3 credits)
  - T3: EEM1016 Engineering Mathematics II (3 credits)
  - T4: EEN1036 Digital Logic Design (3 credits)
  - T5: EPM1016 Instrumentation and Measurement Techniques (3 credits)
  - T6: ECT1016 Introduction to Machines & Power Systems (3 credits)

- **Year 3:**
  - T7: ECP2056 Data Communications and Computer Networking (3 credits)
  - T8: EEN2056 Physical Electronics (3 credits)
  - T9: EPM2036 Control Theory (3 credits)
  - T10: EOP2016 Fundamentals of Optics (3 credits)
  - T11: EPT4066 Industrial Training (5 credits)

- **Year 4:**
  - T12: EOP4086 Optical Signal Processing (3 credits)
  - T13: EOP4066 Optical Communication Systems (3 credits)

**Electives:**

- **Year 1:**
  - T14: EPT3016 Mini Project (3 credits)

- **Year 2:**
  - T15: ECP3086 Multimedia Technology and Applications (3 credits)
  - T16: ECP3106 Software Engineering (3 credits)
  - T17: ECP3126 Object-Oriented Programming with UML (3 credits)

- **Year 3:**
  - T18: ECP4136 Java Technology (3 credits)

- **Year 4:**
  - T19: EEP4016 Electrical Systems and Control (3 credits)
  - T20: EEP4026 Electrical Machines, Power Systems and Control (3 credits)

**Elective subjects are subjected to change by the faculty.**

Electives 1 & 2 (T8): Choose 2 subjects **excluding arts & humanities**

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**Languages and Humanities:**

- **Year 1:**
  - LES1010 Technical Communications (3 credits)

- **Year 2:**
  - BEN2010 Introduction to Cyberpreneurship (1 credit)

- **Year 3:**
  - BMG2010 Basic Economics, Accounting and Management (3 credits)

**Total (139 credit hours):**

**for Existing Student Year 4 in Feb 2011:**

**Malaysians who have fulfilled the Bahasa Malaysia requirement (either having passed Bahasa Malaysia with a credit at SPM level, or having passed the MPW2113 Bahasa Kebangsaan A during FOSSEE/Diploma or other previous studies) shall be required to take a 3CH foreign language subject. They shall only take a foreign language course which is not their native language and they have no formal education in. International students are to choose a foreign language which is not their native language and which they have no formal education in but they are highly encouraged to take up MPW2123 - Bahasa Kebangsaan B.**