

PROGRAMME DETAILS:

Programme Code: N/523/6/0284 (PA8231) 07/21

Duration: 3 Years

Main Intakes: January, May and September

Awarding Body: Leeds Beckett University, UK

CAREER PROSPECTS:

Field Test Engineer, Sales Engineer, Customer Support Engineer, Electronics/ Electrical Engineer, Research Engineer, Design & Development Engineer, Quality Production & Systems Engineer, Program Control Engineer etc.

PROGRAMME OVERVIEW

The programme is designed to focus on the technologies required for the future needs of our fast-paced world in communications, instrumentations, and many more. Electrical and Electronic Engineers are involved in technology advances that covers the fields of e-commerce, mobile telephones, wireless communications, renewable energy and the internet. This degree programme provides students with a broad range of skills relating to all aspects of the design of electronic systems and devices. It combines coursework in different aspects of electrical and electronic engineering, as well as individual and group project work. Our students are taught to design and build innovative electronic systems through our solid technological base programme structure from which a career in electrical and electronic engineering can be hurled, along with the basic skills needed to sustain professional development throughout a graduate career.

Graduates from this programme are not eligible to register for professional membership with the Board of Engineers Malaysia (BEM).

ENTRY REQUIREMENTS

1. STPM / A-Level or its equivalent:
Pass STPM or its equivalent with minimum Grade C (GP 2.00) in Mathematics and 1 relevant Science subject; OR
2. UEC:
Pass UEC with minimum Grade B in 5 subjects including Mathematics and 1 relevant Science; OR
3. Matriculation / Foundation or its equivalent:
Pass Matriculation / Foundation with minimum CGPA of 2.00; OR
4. Diploma in Engineering / Engineering Technology or its equivalent:
Diploma in Engineering / Engineering Technology with minimum CGPA of 2.00; OR
5. Diploma in Vocational / Technical / Skills or its equivalent:
Diploma in Vocational and Technical / Skills in the related field with minimum CGPA of 2.00; OR
6. Other equivalent qualifications recognized by Malaysian Government.

AND

Students must pass:

- a) International English Language Testing Systems (IELTS) with minimum Band 6 (Minimum score 5.5 in each skill); OR



- b) Test of English as a Foreign Language (TOEFL) with minimum score of 550; OR
- c) Cambridge English / GCE A Levels; OR
- d) Pearson Test of English (PTE Academic) (56-60 overall with minimum of 51 and above in each component); OR
- e) Password Integrated Skills Test with minimum Band 6 (Minimum score 5.5 in each skill); OR
- f) Credit in SPM English subject / 1119 English

Programme Structure

Year 1	Year 2	Year 3
<ul style="list-style-type: none"> • Digital Electronics • Engineering Systems and Data Acquisition • Engineering Mathematics • Engineering Design Project • Computers in Engineering • Mathematical Modelling and Simulation • Circuit Analysis • Academic Skills 	<ul style="list-style-type: none"> • Analogue Electronics • Communication Systems Applications • Signals and Systems • Research and Analysis Project • Embedded Systems • Instrumentation and Control • Electromagnetic Fields and Waves • Industrial Training (For Malaysian Students Only) • Research Methodology (For Overseas Students Only) # • Economics Analysis for Decision Making (For Overseas Students Only) # 	<ul style="list-style-type: none"> • Digital Signal Processing • Advanced Device Applications • Production Project • Control Engineering Systems Design • Elective Module* • Professional Ethics

#Overseas students are facing difficulty in collecting data or conducting surveys for their assessments from local companies. Local employers have also expressed their concerns and showing unhappiness while dealing with overseas students. In view of above issues, the programme provides the opportunity to overseas students to take two modules instead of Industrial Training.

Elective Module 3:

- Project Management
- Engineering Simulation
- Engineering Control
- Engineering Cost and Management Accounting

**This programme provides FOUR (4) electives in final year. Students have to choose any ONE (1) elective based on their strength and interest.*

As stated in the Circular from Ministry of Education No. 2/2013 with reference number JPT/GS1000-606Jld.1(25), all new students who enroll into any programme in any private institution after 01 September 2013 are required to complete and pass all the required General Studies Modules / Mata Pelajaran Umum (MPU).

