Bachelor of Computer and Communication Systems Engineering

Introduction

Bachelor of Computer and Communication Systems Engineering is a four-years (eight semesters) programme with 135 total credits requirement for graduation. The programme encapsulates courses that are related to inculcate knowledge and ability to solve problems and execute design and development to produce professionals in the field of computer and communication systems engineering. The programme has been offered since the year of 1996 in which curriculum revision and improvement have been carried out regularly. This is to ensure the offered programme not only caters the qualification of the accreditation body but also relevant to the industrial and current needs. Curriculum structure is always developed based on the elements and guidelines outlined by the Engineering Accreditation Council (EAC). This programme is also in line with the country's national industrial policy to develop technologies and manpower in the field of computer and communication systems engineering.

Objectives of this programme are to produce engineers who has sufficient knowledge in the field of computer and communication systems engineering, and to provide appropriate skills and attitudes to work in industries. Guidance is also given to nurture creative and innovative thinking, as well as, inculcate sensitivity and responsibility towards the society, cultures and environment. The programme is also targeting to produce engineers that are capable to work in advanced design and development in related fields of computer and communication systems engineering.

Career Opportunity

Vast career opportunity is available for the programme's graduates in which they could venture in the field of computer and communication systems engineering such as software, telecommunications, broadcasting, radio frequency, electronic systems, optical fibre, information and communication technologies (ICT) engineers as well as researchers and entrepreneurs. Every organization is seen to have its own telecommunication network and information technology infrastructures that will provide career opportunity in the field. Expertise in this field is required to fulfil the qualified professional employee requirements in the field of Communications Content and Infrastructure (CCI) which is among of the twelve main areas in the National Key Economic Areas (NKEA).

Admission Requirements

Bachelor of Computer and Communication Systems Engineering (PK17) 8 Semesters		
Fulfills the University General Requirements and Specific Programme Requirements: a) A minimum CGPA of 2.80 b) A minimum of Band 3 in the Malaysian University English Test (MUET) OR Credit in English Language subject at SPM level		
c) And		
STPM Holder	**KPM Matriculation / UM Science Foundation / UiTM Foundation / UPM Agricultural Science Foundation Holder**	**Diploma Holder / Equivalent**
A minimum of Grade B (GP 3.00) in • Additional Mathematics; and • Physics	A minimum of Grade B (GP 3.00) in • Mathematics/Engineering Mathematics; and • Physics/Engineering Physics	A Diploma with a minimum CGPA of 2.80 in the appropriate field or other qualification approved by the UPM Senate.

Curriculum (2016 – 2020)

The component of curriculum studies can be divided into three categories, namely general courses, core courses and elective courses.

Component	EAC requirements (minimum total credit hours)	Curriculum of Bachelor of Computer and Communication Systems Engineering	Percentage
General Courses	No fixed minimum value	35	25.93%
Core Courses	90	85	62.96%
Elective Courses		15	11.11%
Total Credit	**135**	**135**	**100%**

Total credit hours: 135
Duration of study: 8 semester (4 years)

Fees

Code	Program	Average cost of a student per year	Fees paid by a student per year*	Government subsidies to the student per year
68	Bachelor of Computer and Communication Systems Engineering	**RM26,315.00**	**RM4,489.00**	**RM21,826.00**

*Fees for local students on first semester as at August 2, 2018 is RM2,637.00 (subject to change from time to time).

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