STUDY SCHEME 2011 - 2015
BACHELOR OF ENGINEERING (COMPUTER AND COMMUNICATION SYSTEMS)

Department of Computer and Communication Systems Engineering
Faculty of Engineering, Universti Putra Malaysia

C - Credit Hours, L - Lecture, P - Lab

FIRST YEAR

First Semester					Second Semester				
CODE	COURSE	C	L	P	CODE	COURSE	C	L	P
Year 1									
ECC 3001	Engineering Mathematics I	3	3	0	ECC 3002	Engineering Mathematics II	3	3	0
ECC 3101	Computer Programming	3	2	1	ECC 3103	Digital Logic	4	3	1
ECC 3110	Electrical Circuit Analysis	3	3	0	ECC 3201	Object-Oreinted Programming	3	2	1
SKP 2101	Malaysian Nationhood	3	3	0	SKP 2203	Islamic Civilization and Asian Civilization	2	2	0
Q** ****	Credited Curriculum[1]	1	0	1	SKP 2204	Ethnic Relations	2	2	0
					Q** ****	Credited Curriculum [1]	1	0	1
TOTAL		**13**	**11**	**2**	**TOTAL**		**15**	**12**	**3**

SECOND YEAR

CODE	COURSE	C	L	P	CODE	COURSE	C	L	P
ECC 3003	Engineering Mathematics II	3	3	0	ECC 3004	Engineering Statistics	3	3	0
ECC 3111	Electronic Devices and Circuits	4	3	1	ECC 3106	Electronic Communication Circuits	4	3	1
ECC 3105	Microprocessor	4	3	1	ECC 3107	Signals and Systems	3	3	0
BBI 2423	Academic Interaction and Presentation	3	3	0	ECC 3108	Electromagnetic Waves	3	3	0
PRT 2008	Agriculture and Man	2	2	0	ECC 3301	Digital Systems Design	4	3	1
					BBI 2424	Academic Writing	3	3	0
TOTAL		**16**	**14**	**2**	**TOTAL**		**20**	**18**	**2**

THIRD YEAR

CODE	COURSE	C	L	P	CODE	COURSE	C	L	P
ECC 3109	Digital Communications	4	3	1	ECC 3203	Sistem Pengoperasian	3	3	0
ECC 3202	Computer Architecture	3	3	0	ECC 3302	Embedded Computer and Communication Systems Design	3	2	1
ECC 3401	Digital Signal Processing	3	3	0	ECC 3601	Optical Communications	4	3	1
ECC 3402	Multimedia Systems	3	2	1	ECC 3902	Seminar	1	0	1
ECC 3701	Computer Networks	4	3	1	EEE 3401	Control Systems	3	3	0
					EAB 3406	Project Management	3	3	0
TOTAL		**17**	**14**	**3**	**TOTAL**		**17**	**14**	**3**

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FORTH YEAR									
ECC 4901	Industrial Training [2]	5	0	5	ECC 3999B	Final Year Project	4	0	4
ECC 4501	Mobile Radio and Satellite Communications	3	3	0	MGM 3180	Basic Entrepreneurship	3	3	0
ECC 4999A	Final Year Project	2	0	2	ECC 4***	Technical Electives [3]	3	3	0
ECV 3001	Engineers and Society	3	3	0	ECC 4***	Technical Electives [3]	3	3	0
ECC 4***	Technical Electives [3]	3	3	0					
ECC 4***	Technical Electives [3]	3	3	0					
TOTAL		19	12	2	TOTAL		13	9	4

NOTE:

[1]   Credited Curriculum may be taken at any semester during the duration of study

[2]   Industrial Traning is carried out at least for 10 weeks after the sixth (6) semester during inter semester break

[3]   For electives course, choose only four (4) courses

Electives Courses (Select only 4 courses)

First Semester					Second Semester				
CODE	COURSE	C	L	P	CODE	COURSE	C	L	P
ECC 4203	Database Management	3	3	0	ECC 4204	Internet Computing	3	3	0
ECC 4206	Advanced Programming	3	3	0	ECC 4205	Computer System Administration	3	3	0
ECC 4303	Artifical Intelligence	3	3	0	ECC 4302	Autonomous Robots	3	3	0
ECC 4401	Audio and Video Processing	3	3	0	ECC 4402	Imaging Systems	3	3	0
ECC 4502	Antenna and Propagation	3	3	0	ECC 4504	Radio Frequency and Microwave Techniques	3	3	0
ECC 4503	Access Network Technologies	3	3	0	ECC 4601	Photonic Devices	3	3	0
ECC 4701	Core Network Technologies	3	3	0	ECC 4703	Computer and Network Security	3	3	0
					ECC 4704	Digital Telephony	3	3	0

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