

SECR (COMPUTER NETWORKS & SECURITY) CURRICULUM STRUCTURE 2019/2020

YEAR 1 (SEPTEMBER)			
Code	Course	Credit	Pre-requisite
SECI1013	Discrete Structure	3	
SECI1013	Programming Technique I	3	
SECP1513	Technology & Information System	3	
SECR1013	Digital Logic	3	
UHAK1012	Graduate Success Attributes	2	
MALAYSIAN STUDENTS			
UHAS1172	Malaysia Dynamic	2	
UHIT2302	Science and Technology Thinking	2	
INTERNATIONAL STUDENTS			
UHLM1012	Malaysia Language for Communication 2	2	
UHMS1022	Malaysian Studies 3	2	
TOTAL CREDITS		18	
CUMUHLTIVE CREDITS		18	

YEAR 1 (FEBRUARY)			
Code	Course	Credit	Pre-requisite
SECI1113	Computational Mathematics	3	
SECI1023	Programming Technique II	3	SECI1013
SECI2143	Probability & Statistical Data Analysis	3	
SECR2033	Computer Organisation and Architecture	3	SECR1013
SECV2113	Human Computer Interaction	3	
UHLB1112	English Communication Skills*	2	
TOTAL CREDITS		17	
CUMUHLTIVE CREDITS		35	

Notes: Students with minimum score of IELTS Band 5.5, TOEFL 525, TOEFL iBT 60, CEFR B2 and MUET Band 4 can apply for credit exemption for UHLB1112

YEAR 2 (SEPTEMBER)			
Code	Course	Credit	Pre-requisite
SECR1213	Network Communications (CCNA1)	3	SECR1013
SECD2523	Database	3	
SECD2613	System Analysis and Design	3	
SECI2013	Data Structure and Algorithm	3	SECI1023
SECR2043	Operating Systems	3	
UKQF2xx2	Service Learning Co-curriculum Elective	2	
TOTAL CREDITS		17	
CUMUHLTIVE CREDITS		52	

YEAR 2 (FEBRUARY)			
Code	Course	Credit	Pre-requisite
SECV1223	Web Programming	3	SECD2523
SECI2154	Object Oriented Programming	4	SECI1023
SECI2203	Software Engineering	3	
SECR2242	Computer Networks (CCNA2)	2	SECR1213
SECR2941	Computer Networks Lab	1	SECR1213
SECR3413	Computer Security	3	SECR2043
UHLB2122	Academic Communication Skills	2	UHLB1112
TOTAL CREDITS		18	
CUMUHLTIVE CREDITS		70	

YEAR 3 (SEPTEMBER)			
Code	Course	Credit	Pre-requisite
SECI3553	Artificial Intelligence	3	SECI2013
SECR3104	Applications Development	4	SE, DB, Web, CS
SECR3242	Internetworking Technology (CCNA3 & 4)	2	SECR2242
SECR3941	Internetworking Technology Lab	1	SECR2941
SECR3443	Introduction to Cryptography	3	SECR3413
UHLB3132	Professional Communication Skills	2	UHLB2122
UHLx1112	Foreign Language Elective	2	
UKQT3001	Extracurricular Experiential Learning	1	
TOTAL CREDITS		18	
CUMUHLTIVE CREDITS		88	

YEAR 3 (FEBRUARY)			
Code	Course	Credit	Pre-requisite
SECR3032	Computer Network & Security Project I	2	SECR3104
SECI3203	Theory of Computer Science	3	SECI1013
SECD3761	Technopreneurship Seminar	1	
UBSS1032	Introduction to Entrepreneurship	2	
SECRxxx3	SECR Elective 1	3	
SECRxxx3	SECR Elective 2	3	
MALAYSIAN STUDENTS			
UHS1012	Falsafah dan Isu Semasa	2	
UHMS1182	Penghayatan Etika dan Peradaban	2	
INTERNATIONAL STUDENTS			
UHS1012	Falsafah dan Isu Semasa	2	
UHMS1182	Penghayatan Etika dan Peradaban	2	
UHIT2302	Science and Technology Thinking	2	
TOTAL CREDITS		18	
CUMUHLTIVE CREDITS		106	

YEAR 4 (SEPTEMBER)			
Code	Course	Credit	Pre-requisite
SECR4114	Industrial Training Report	4	
SECR4118	Industrial Training (HW)	8	
TOTAL CREDITS		12	
CUMUHLTIVE CREDITS		118	

YEAR 4 (FEBRUARY)			
Code	Course	Credit	Pre-requisite
SECR4134	Computer Network & Security Project II	4	SECR3032
SECRxxx3	SECR Elective 3	3	
SECRxxx3	SECR Elective 4	3	
SECRxxx3	SECR Elective 5	3	
TOTAL CREDITS		13	
CUMUHLTIVE CREDITS		131	

SECR Elective Courses (CHOOSE 5)							
Code	Course	Credit	Pre-requisite	Code	Course	Credit	Pre-requisite
SECR3223	High Performance & Parallel Computing	3	SECI1023	SECR4453	Network Security	3	SECR2242
SECR3253	Network Programming	3	SECI1013	SECR4483	Security Management	3	SECR3443
SECR3263	Wireless Sensor Network	3	SECR2242	SECR4483	Secure Programming	3	SECR3443
SECR4283	Network Analysis & Design Simulation	3	SECR2242	SECR4493	Computer Forensic	3	SECR3413
SECR4443	Penetration Testing	3	SECR2033	SECR4973	Special Topics on Computer Network & Security	3	