



Dr. Siti Hajar Othman (Penyelaras SCSR FC)

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## PROGRAMME : BACHELOR OF COMPUTER SCIENCE (COMPUTER NETWORK & SECURITY)

Study Duration: Minimum 8 Semesters / Maximum 12 Semesters

### YEAR 1 (Semester I)

CODE	COURSE	CREDITS
SCSD1513	Technology & Information System	3
SCSI1013	Discrete Structure	3
SCSJ1013	Programming Technique I <b>(TP1)</b>	3
SCSR1013	Digital Logic <b>(DL)</b>	3
ULAB1412	English for Academic Communications	2
UHAS1172/ UHAS1162	Malaysia Dynamic Arts, Customs & Beliefs of Malaysians	2

Total Credits : 16

### YEAR 1 (Semester II)

CODE	COURSE	CREDITS
SCSI1113	Computational Mathematics	3
SCSJ1023	Programming Technique II <b>(TP2)</b>	3
SCSR1213	Network Communications <b>(NetComm)</b>	3
SCSV1223	Web Programming	3
UICI1012/ ULAM1112	Islamic Civilisation & Asia Civilisation (TITAS) / Malay Language for Communication Purposes	2
UKQxxxx1/2	Co-curriculum I	1/2

Total Credits : 15

← **TP1**

← **DL**

### YEAR 2 (Semester I)

CODE	COURSE	CREDITS
SCSD2523	Database	3
SCSD2613	System Analysis and Design <b>(SADM)</b>	3
SCSJ2013	Data Structure and Algorithm	3
SCSR2033	Computer Organisation & Architecture	3
SCSV2113	Human Computer Interaction	3
UICI2132	Islamic and Current Issues	2
UKQxxxx1/2	Co-curriculum II	1/2

Total Credits : 18

← **TP1 + TP2**

← **DL**

### YEAR 2 (Semester II)

CODE	COURSE	CREDITS
SCSI2143	Probability & Statistical Data Analysis	3
SCSJ2154	Object Oriented Programming <b>(OOP)</b>	4
SCSJ2203	Software Engineering <b>(SE)</b>	3
SCSR2043	Operating Systems <b>(OS)</b>	3
ULAB2112	Advanced English for Academic Communications	2
<b>Elective Courses - Choose 1 (3 Credits)</b>		
SCSD2623	Database Programming	3
SCSR2242	Computer Networks <b>(CompNet)</b>	2
SCSR2941	Computer Networks Lab	1

Total Credits : 18

← **TP1 + TP2**

← **TP1**

← **COA**

← **NetComm**

← **NetComm**

YEAR 3 (Semester I)

YEAR 3 (Semester II)

CODE	COURSE	CREDITS	CODE	COURSE	CREDITS
ULAB3xx2	Elective English Language (Choose 1 from electives)	2	UCSD2762	Information Technology Entrepreneurship	2
SCSJ3203	Computer Science Theory	3	SCSD 3761	IT Entrepreneurship Seminar	1
			SCSR3032	Computer Network & Security Project I ( <i>PSM1</i> )	2
<b>Elective Courses - Choose 4 (13 Credits)</b>			UHAS2XX2	Elective UHS	2
SCSJ3553	Artificial Intelligence	3	<b>Elective Courses - Choose 3 (9 Credits)</b>		
<b>SE + OOP</b> → SCSR3104	Applications Development ( <i>AD</i> )	4	SCSR3443	Cryptography	3
<b>CompNet+Lab</b> → SCSR3242	Inter Networking Technology	2	SCSR3253	Network Programming	3
<b>CompNet+Lab</b> → SCSR3941	Inter Networking Technology Lab	1	SCSR3243	Netcentric Computing	3
SCSR3413	Computer Security ( <i>CompSec</i> )	3	SCSR4283	Network Analysis and Design Simulation	3
<b>CompNet+Lab</b> → SCSR4273	Network Administration and Management	3			

**SE + OOP**  
**CompNet+Lab**  
**CompNet+Lab**  
**CompNet+Lab**

**SADM + SE + AD**  
**CompSec**  
**TP2 + NetComm**  
**TP2 + NetComm**  
**CompNet**

Total Credits : 18

Total Credits : 16

YEAR 4 (Semester I)

YEAR 4 (Semester II)

CODE	COURSE	CREDITS	CODE	COURSE	CREDITS
SCSR4118	Industrial Training (HW)	8	ULAxxx2	Elective Foreign Language	2
SCSR4114	Industrial Training Report	4	SCSR4134	Computer Network & Security Project II ( <i>PSM2</i> )	4
			<b>Elective Courses - Choose 3 (9 Credits)</b>		
			SCSR4453	Network Security	3
			SCSR4473	Security Management	3
			SCSR4483	Security Programming	3
			SCSR4973	Computer Network & Security Special Topic	3
			SCSR4493	Computer Forensic	3

Total Credits : 12

Total Credits : 15

**PSM1**  
**NetComm+CompSec**  
**CompSec**  
**TP2 + CompSec**  
**CompNet**