

SCSR (COMPUTER NETWORKS & SECURITY) CURRICULUM STRUCTURE - PRISMS FOR COHORT 2017/2018

| YEAR 1 (SEPTEMBER) | | | |
|---------------------------|---------------------------------------|-----------|---------------|
| Code | Course | Credit | Pre-requisite |
| SCSI1013 | Discrete Structure | 3 | |
| SCSJ1013 | Programming Technique I | 3 | |
| SCSP1513 | Technology & Information System | 3 | |
| SCSR1013 | Digital Logic | 3 | |
| UHAK1012 | Graduate Success Attributes | 2 | |
| MALAYSIAN STUDENTS | | | |
| UHAS1172 | Malaysian Dynamic | 2 | |
| UICI1012 | Islamic and Asia Civilisation | 2 | |
| INTERNATIONAL STUDENTS | | | |
| UHAK1022 | Malaysian Studies 3 | 2 | |
| ULAM1012 | Malaysia Language for Communication 2 | 2 | |
| TOTAL CREDITS | | 18 | |
| CUMULATIVE CREDITS | | 18 | |

| YEAR 1 (FEBRUARY) | | | |
|---------------------------|---|-----------|---------------|
| Code | Course | Credit | Pre-requisite |
| SCSI1113 | Computational Mathematics | 3 | |
| SCSJ1023 | Programming Technique II | 3 | SCSJ1013 |
| SCSI2143 | Probability & Statistical Data Analysis | 3 | |
| SCSR2033 | Computer Organisation and Architecture | 3 | SCSR1013 |
| UICL2302 | The Thought of Science and Technology | 2 | |
| ULAB1122 | Academic English Skills | 2 | |
| UKQX2xx2 | Service Learning Co-curriculum Elective | 2 | |
| TOTAL CREDITS | | 18 | |
| CUMULATIVE CREDITS | | 36 | |

| YEAR 2 (SEPTEMBER) | | | |
|--------------------|------------------------------|--------|---------------|
| Code | Course | Credit | Pre-requisite |
| SCSR1213 | Network Communications | 3 | SCSR1013 |
| SCSD2523 | Database | 3 | |
| SCSD2613 | System Analysis and Design | 3 | |
| SCSJ2013 | Data Structure and Algorithm | 3 | SCSJ1023 |
| SCSV2113 | Human Computer Interaction | 3 | |
| SCSR3413 | Computer Security | 3 | |

| YEAR 2 (FEBRUARY) | | | |
|-------------------|-----------------------------|--------|---------------|
| Code | Course | Credit | Pre-requisite |
| SCSV1223 | Web Programming | 3 | SCSD2523 |
| SCSJ2154 | Object Oriented Programming | 4 | SCSJ1023 |
| SCSJ2203 | Software Engineering | 3 | |
| SCSR2242 | Computer Networks | 2 | SCSR1213 |
| SCSR2941 | Computer Networks Lab | 1 | SCSR1213 |
| SCSR2043 | Operating Systems | 3 | |

| | | |
|---------------------------|-----------|--|
| TOTAL CREDITS | 18 | |
| CUMULATIVE CREDITS | 54 | |

| | | | |
|---------------------------|----------------------------------|-----------|----------|
| ULAB2122 | Advanced Academic English Skills | 2 | ULAB1122 |
| TOTAL CREDITS | | 18 | |
| CUMULATIVE CREDITS | | 72 | |

| YEAR 3 (SEPTEMBER) | | | |
|---------------------------|-----------------------------------|---------------|----------------------|
| Code | Course | Credit | Pre-requisite |
| SCSJ3553 | Artificial Intelligence | 3 | SCSJ2013 |
| SCSR3104 | Applications Development | 4 | SE, DB, Web, CS |
| SCSR3242 | Internetworking Technology | 2 | SCSR2242 |
| SCSR3941 | Internetworking Technology Lab | 1 | SCSR2941 |
| SCSR3443 | Introduction to Cryptography | 3 | SCSR3413 |
| ULAB3162 | English for Professional Purposes | 2 | ULAB2122 |
| ULAx1112 | Foreign Language Elective | 2 | |
| TOTAL CREDITS | | 17 | |
| CUMULATIVE CREDITS | | 89 | |

| YEAR 3 (FEBUARY) | | | |
|---------------------------|---------------------------------------|---------------|----------------------|
| Code | Course | Credit | Pre-requisite |
| SCSR3032 | Computer Network & Security Project I | 2 | SCSR3104 |
| SCSJ3203 | Theory of Computer Science | 3 | SCSI1013 |
| SCSD3761 | Technopreneurship Seminar | 1 | |
| UHAK1032 | Introduction to Entrepreneurship | 2 | |
| UICL2XX2 | Enrichment of Knowledge Elective | 2 | |
| SCSRxxx3 | SCSR Elective 1 (or 2 for MCs CS) | 3 | |
| TOTAL CREDITS | | 13 | |
| CUMULATIVE CREDITS | | 102 | |

| YEAR 4 (SEPTEMBER) | | | |
|---------------------------|----------------------------|---------------|----------------------|
| Code | Course | Credit | Pre-requisite |
| SCSR4114 | Industrial Training Report | 4 | |
| SCSR4118 | Industrial Training (HW) | 8 | |
| TOTAL CREDITS | | 12 | |
| CUMULATIVE CREDITS | | 114 | |

| YEAR 4 (FEBRUARY) | | | |
|---------------------------|--|---------------|----------------------|
| Code | Course | Credit | Pre-requisite |
| SCSR4134 | Computer Network & Security Project II | 4 | SCSR3032 |
| SCSR5xx3 | SCSR PRISMS Elective 1 | 3 | |
| SCSR5xx3 | SCSR PRISMS Elective 2 | 3 | |
| SCSR5xx3 | SCSR PRISMS Elective 3 | 3 | |
| SCSR5xx3 | SCSR PRISMS Elective 4 | 3 | |
| TOTAL CREDITS | | 16 | |
| CUMULATIVE CREDITS | | 130 | |

| SCSR Elective Courses | | | |
|---|---|--------|---------------|
| Choose 1 for PRISMS MSc Cybersecurity Engineering (Taught Course) | | | |
| Choose 2 for PRISMS MSc Computer Science (Mix mode) | | | |
| Code | Course | Credit | Pre-requisite |
| SCSR3223 | High Performance & Parallel Computing | 3 | SCSJ1023 |
| SCSR3253 | Network Programming | 3 | SCSJ1013 |
| SCSR3263 | Wireless Sensor Network | 3 | SCSR2242 |
| SCSR4283 | Network Analysis & Design Simulation | 3 | SCSR2242 |
| SCSR4453 | Network Security | 3 | SCSR2242 |
| SCSR4483 | Secure Programming | 3 | SCSR3443 |
| SCSR4973 | Special Topics on Computer Network & Security | 3 | |

| SCSR PRISMS Elective Courses for MSc Cybersecurity Engineering (CHOOSE 4) | | | |
|---|---|--------|--------------------|
| Code | Course | Credit | Pre-requisite |
| SCSR5423 | Information Security Governance and Risk Management | 3 | SECR3413 |
| SCSR5433 | Digital Forensics | 3 | SECR3413 |
| SCSR5443 | Cloud Computing Security | 3 | SECR3413 |
| SCSR5453 | Secure Software Engineering | 3 | SECR3413 |
| SCSR5463 | Cyber Threat Intelligence | 3 | SECR3413, SECJ3553 |
| SCSR5473 | Cryptographic Engineering | 3 | SECR3443 |

| SCSR PRISMS Elective Courses for MSc Computer Science (CHOOSE 3) | | | |
|--|---------------------------------------|--------|---------------|
| Code | Course | Credit | Pre-requisite |
| SCSx5xx3 | Advanced Theory of Computer Science | 3 | SCSJ3203 |
| SCSx5xx3 | Advanced Data Structure and Algorithm | 3 | SCSJ2013 |
| SCSx5xx3 | Advanced Artificial Intelligence | 3 | SCSJ3553 |