**Arab Open University AOU - Oman**

**Faculty of Computer Studies (FCS)**

# Network and Security 2023 Study Plan

## Semester: 1

| # | Course Code | Course Title | Pre-Requisites | Cr. Hrs. |
|---|---|---|---|---|
| 1 | AR113 (AR111 or AR112) | Arabic Communication Skills I | EF003 & IT100 & MA10P | 3 |
| 2 | EL111 | English Communication Skills I | EF003 & IT100 & MA10P | 3 |
| 3 | GT101 (TU170) | Learning and Information Technology | EF003 & IT100 & MA10P | 3 |
| 4 | GR118 (GR101) | Life Skills and Coexistence | EF003 & IT100 & MA10P | 3 |
| 5 | MST129 (MT129) | Calculus and Probability | EF003 & IT100 & MA10P | 4 |
| | | **Total Hours in Semester** | | **16** |

*Year 1*

## Semester: 2

| # | Course Code | Course Title | Pre-Requisites | Cr. Hrs. |
|---|---|---|---|---|
| 1 | EL112 | English Communication Skills II | EL111 | 3 |
| 2 | | University Elective (GR111 or GR131) | EF003 & IT100 & MA10P | 3 |
| 3 | MT131 | Discrete Mathematics | EL111 | 4 |
| 4 | M110 (TM111) | Python Programming | EL111 | 8 |
| | | **Total Hours in Semester** | | **18** |

## Semester: 3

| # | Course Code | Course Title | Pre-Requisites | Cr. Hrs. |
|---|---|---|---|---|
| 1 | GB102 (BS100) | English Communication Skills II | EL112 | 3 |
| 2 | TM112 | Introduction to Computing and Information Technology 2 | M110 | 8 |
| 3 | TM105 | Introduction to Programming | EL111 | 4 |
| 4 | MT132 | Linear Algebra | EL111 | 4 |
| | | **Total Hours in Semester** | | **19** |

*Year 2*

## Semester: 4

| # | Course Code | Course Title | Pre-Requisites | Cr. Hrs. |
|---|---|---|---|---|
| 1 | M251 | Object-Oriented Java Programming | TM105 | 8 |
| 2 | TM254 (T227) | Managing IT: the why, the what and the how | M110 | 8 |
| 3 | TM103 | Computer Organization and Architecture | TM105 | 4 |
| | | **Total Hours in Semester** | | **20** |

## Semester: 5

| # | Course Code | Course Title | Pre-Requisites | Cr. Hrs. |
|---|---|---|---|---|
| 1 | T216A | Cisco networking (CCNA)-A | TM112 | 8 |
| 2 | TM260 | Security, Ethics and Privacy in IT and Computing | TM105 | 4 |
| 3 | M109 | .Net Programming | TM105 | 3 |
| 4 | MT101 | General Mathematics | EL111 | 3 |
| | | **Total Hours in Semester** | | **18** |

*Year 3*

## Semester: 6

| # | Course Code | Course Title | Pre-Requisites | Cr. Hrs. |
|---|---|---|---|---|
| 1 | T216B | Cisco networking (CCNA)-B | T216A | 8 |
| 2 | T321 (TM352) | Operating System Server Administration | T216A | 8 |
| 3 | ITC309 | Industrial Training | completeing > 90 credit hours | 0 |
| | | **Total Hours in Semester** | | **16** |

## Semester: 7

| # | Course Code | Course Title | Pre-Requisites | Cr. Hrs. |
|---|---|---|---|---|
| 1 | T316 | Advanced Networking | T216B | 8 |
| 2 | T471-I | Graduation Project (ITC) - I | TM354 / T316 / T318 | 4 |
| | | **Total Hours in Semester** | | **12** |

*Year 4*

## Semester: 8

| # | Course Code | Course Title | Pre-Requisites | Cr. Hrs. |
|---|---|---|---|---|
| 1 | T318 | Applied Network Security | T216B | 8 |
| 2 | T471-II | Graduation Project (ITC) - II | T471-I | 4 |
| | | **Total Hours in Semester** | | **12** |

Core Programme Courses
Faculty Elective Courses
Faculty Requirement Courses
University Requirement Courses
University Elective Courses

**Total Credits: 131**