



6.0 Units of study

| Level one Semester one | | | | | | | |
|------------------------|--|---------|----------|-----|-----|--------|----|
| Code | Denomination | Lecture | Tutorial | Lab | PSW | Volume | CR |
| Fundamental | | | | | | | |
| ICT105 | Introduction to algorithms | 30 | 15 | 15 | 15 | 50 | 5 |
| ICT107 | Mathematics for computer science I | 30 | 15 | 15 | 15 | 50 | 5 |
| ICT109 | Discrete Mathematics I | 30 | 15 | 15 | 15 | 50 | 5 |
| Professional | | | | | | | |
| ICT101 | Introduction to Business Information Systems | 30 | 15 | 15 | 15 | 50 | 5 |
| ICT103 | Introduction to Programming | 30 | 22.5 | 15 | 15 | 50 | 5 |
| ICT111 | Data Coding | 30 | 15 | 15 | 15 | 50 | 5 |

| Level one Semester Two | | | | | | | |
|------------------------|--------------------------------|---------|----------|-----|-----|--------|----|
| Code | Denomination | Lecture | Tutorial | Lab | PSW | Volume | CR |
| Fundamental | | | | | | | |
| ICT104 | Computer systems | 30 | 22.5 | 12 | 18 | 50 | 6 |
| ICT106 | Data Structures and Patterns I | 30 | 15 | 15 | 15 | 50 | 5 |
| Professional | | | | | | | |
| ICT102 | Object-Oriented Programming | 30 | 15 | 15 | 15 | 50 | 5 |
| ICT108 | Creating Web Application | 30 | 22.5 | 12 | 18 | 50 | 6 |
| ICT110 | Database Analysis and Design | 30 | 15 | 15 | 15 | 50 | 5 |
| Second Language | | | | | | | |
| ENGL104 | English I | 20 | 10.5 | | 9 | 30 | 3 |
| FRAN104 | Français I | 20 | 10.5 | | 9 | 30 | 3 |

| Level Two Semester one | | | | | | | |
|---|---|---------|----------|-----|-----|--------|----|
| Code | Denomination | Lecture | Tutorial | Lab | PSW | Volume | CR |
| Fundamental | | | | | | | |
| ICT203 | Database Systems | 30 | 22.5 | 12 | 18 | 50 | 6 |
| ICT201 | Introduction to Software Engineering | 30 | 22.5 | 12 | 18 | 50 | 6 |
| Professional | | | | | | | |
| ICT205 | Introduction to Programming in .NET | 30 | 15 | 15 | 15 | 50 | 5 |
| ICT207 | Software Development in Java I | 30 | 15 | 15 | 15 | 50 | 5 |
| Second Language | | | | | | | |
| ENGL203 | English II | 20 | 10.5 | | 9 | 30 | 3 |
| FRAN203 | Français II | 20 | 10.5 | | 9 | 30 | 3 |
| Each student must choose an option among the following (Professional Course) | | | | | | | |
| COMPUTER SECURITY | | | | | | | |
| ICT213 | Introduction to Computer Security and Risk Management | 30 | 15 | 15 | 15 | 50 | 5 |
| COMPUTER NETWORKING | | | | | | | |
| ICT215 | Introduction to Computer Networking | 30 | 15 | 15 | 15 | 50 | 5 |
| INFORMATION SYSTEM AND SOFTWARE ENGINEERING | | | | | | | |
| ICT217 | Software Engineering | 30 | 15 | 15 | 15 | 50 | 5 |

| Level Two Semester Two | | | | | | | |
|------------------------|---|---------|----------|-----|-----|--------|----|
| Code | Denomination | Lecture | Tutorial | Lab | PSW | Volume | CR |
| Fundamental | | | | | | | |
| ICT204 | Introduction to Operating System | 30 | 15 | 15 | 15 | 50 | 5 |
| ICT208 | Computer Architecture | 30 | 15 | 15 | 15 | 50 | 5 |
| Professional | | | | | | | |
| ICT202 | Software Development for Mobile devices | 30 | 15 | 15 | 15 | 50 | 5 |
| ICT206 | Introduction to Computer Network | 30 | 15 | 15 | 15 | 50 | 5 |
| ICT210 | Database Programming | | | | | | |

| Each student must choose an option among the following (Professional Course) | | | | | | | |
|--|---|----|----|----|----|----|---|
| COMPUTER SECURITY | | | | | | | |
| ICT214 | Introduction to Cryptography | 30 | 15 | 15 | 15 | 50 | 5 |
| COMPUTER NETWORKING | | | | | | | |
| ICT216 | Network Administration | 30 | 15 | 15 | 15 | 50 | 5 |
| INFORMATION SYSTEM AND SOFTWARE ENGINEERING | | | | | | | |
| ICT218 | Advanced Mobile Application Development | 30 | 15 | 15 | 15 | 50 | 5 |

| Level Tree Semester one | | | | | | | |
|--|-----------------------------------|---------|----------|-----|-----|--------|----|
| Code | Denomination | Lecture | Tutorial | Lab | PSW | Volume | CR |
| Fundamental | | | | | | | |
| ICT301 | Software Architectures and Design | 30 | 22.5 | 12 | 18 | 50 | 6 |
| ICT303 | Data Communication and Security | 30 | 22.5 | 12 | 18 | 50 | 6 |
| Professional | | | | | | | |
| ICT305 | Web Application Development | 20 | 15 | 18 | 12 | 50 | 4 |
| ICT307 | Computer Systems Engineering | 30 | 15 | 15 | 15 | 50 | 5 |
| Second Language | | | | | | | |
| ENGL303 | English III | 20 | 15 | | | 30 | 3 |
| FRAN303 | Français III | 20 | 15 | | | 30 | 3 |
| Each student must choose an option among the following (Professional Course) | | | | | | | |
| COMPUTER SECURITY | | | | | | | |
| ICT313 | Cyber and Internet Security | 20 | 15 | 18 | 12 | 50 | 4 |
| COMPUTER NETWORKING | | | | | | | |
| ICT315 | Network Application Development | 20 | 15 | 18 | 12 | 50 | 4 |
| INFORMATION SYSTEM AND SOFTWARE ENGINEERING | | | | | | | |
| ICT317 | Information System | 20 | 15 | 18 | 12 | 50 | 4 |

| Level Tree Semester Two | | | | | | | |
|-------------------------|--------------|---------|----------|-----|-----|--------|----|
| Code | Denomination | Lecture | Tutorial | Lab | PSW | Volume | CR |
| ICT300 | Internship | | | | 360 | 120 | 12 |

| Fundamental | | | | | | | |
|---|--|----|----|----|----|----|---|
| ICT302 | Introduction to Artificial Intelligence | 20 | 15 | 18 | 12 | 50 | 4 |
| ICT304 | Software Testing and Deployment | 17 | | 30 | 9 | 50 | 3 |
| Professional | | | | | | | |
| ICT306 | Business Intelligence | 20 | 15 | 18 | 12 | 50 | 4 |
| ICT308 | Software Development in Java II | 20 | 15 | 18 | 12 | 50 | 4 |
| ICT310 | Professional Issues in IT | 17 | | 30 | 9 | 50 | 3 |
| Each student must choose an option among the following (Professional Course) | | | | | | | |
| COMPUTER SECURITY | | | | | | | |
| ICT314 | Computer Forensics and Incident Response | 20 | 15 | 18 | 12 | 50 | 4 |
| COMPUTER NETWORKING | | | | | | | |
| ICT316 | Digital communication | 20 | 15 | 18 | 12 | 50 | 4 |
| INFORMATION SYSTEM AND SOFTWARE ENGINEERING | | | | | | | |
| ICT318 | Java Enterprise Edition | 20 | 15 | 18 | 12 | 50 | 4 |