|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total Workload of Computer Science & Information Program | | | | | | | | |
|  | | Credit | | Contact Hours | | | Self-Study | Total |
| Course name | Course Code | ECTS | **NCCCA** | Lecture | Lab | Tutorial |
| English Language 1 | PENG 111 | 11 cp | 8 ch | 30 | - | 90 | 240 | 360 ch |
| Introduction to Mathematics 1 | PMTH 112 | 3 cp | 2 ch | 30 | - | - | 60 | 90 ch |
| Computer Skills | PCOM 113 | 3 cp | 2 ch | 15 | - | 15 | 45 | 75 ch |
| Communication and Education Skills | PSSC 114 | 3 cp | 2 ch | 15 | - | 15 | 45 | 75 ch |
| English Language 2 | PENG 121 | 10 cp | 6 ch | 30 | - | 60 | 170 | 260 ch |
| Introduction to Mathematics 2 | PMTH 127 | 7 cp | 4 ch | 45 | - | 15 | 110 | 170 ch |
| English for engineering and scientific disciplines | PENG 123 | 3 cp | 2 ch | 15 | - | 15 | 50 | 80 ch |
| Physics | PPHS 128 | 5 cp | 3 ch | 30 | - | 15 | 105 | 150 ch |
| ‎ Programming 1‎ | CSI 211‎ | **6 cp** | **3 ch** | **30** | **30** | **-** | **90** | 150 ch |
| Disc. Math for CS 1‎ | CSI 212‎ | **6 cp** | **3 ch** | **30** | **-** | **30** | **90** | 150 ch |
| Calculus 1‎ | MATH 212‎ | **6 cp** | **3 ch** | **45** | **-** | **15** | **90** | 150 ch |
| Physics 2‎ | PHYS 217‎ | **6 cp** | **3 ch** | **30** | **30** | **-** | **85** | 145 ch |
| Tech. English | ENG 210‎ | **3 cp** | **2 ch** | **30** | **-** | **-** | **45** | 75 ch |
| Educational & ‎Thinking Skills | ZPSY 211‎ | **3 cp** | **2 ch** | **30** | **-** | **-** | **45** | 75 ch |
| Programming 2‎ | CSI 221‎ | **6 cp** | **3 ch** | **30** | **30** | **-** | **90** | 150 ch |
| Disc. Math For CS 2 ‎ | CSI 222‎ | **3 cp** | **2 ch** | **30** | **-** | **-** | **45** | 75 ch |
| Calculus 2‎ | MATH 220‎ | **6 cp** | **3 ch** | **45** | **-** | **15** | **90** | 150 ch |
| Dig. Logic Design | CSI 223‎ | **6 cp** | **3 ch** | **30** | **30** | **-** | **90** | 150 ch |
| Fund. of Inf. Systems | CSI 224‎ | **6 cp** | **3 ch** | **45** | **-** | **-** | **90** | 135 ch |
| General Chemistry | CHEM 225‎ | **3 cp** | **2 ch** | **30** | **-** | **-** | **45** | 75 ch |
| Visual Programming | CSI 311‎ | **6 cp** | **3 ch** | **30** | **30** | **-** | **90** | 150 ch |
| Data Structure | CSI 312‎ | **6 cp** | **3 ch** | **30** | **30** | **-** | **90** | 150 ch |
| Computer ‎Organization and ‎Assembly Language | CSI 313‎ | **6 cp** | **3 ch** | **30** | **30** | **-** | **90** | 150 ch |
| Database | CSI 314‎ | **6 cp** | **3 ch** | **30** | **30** | **-** | **90** | 150 ch |
| Linear Alg. & Diff. ‎Eq.‎ | MATH 310‎ | **8 cp** | **4 ch** | **45** | **-** | **30** | **120** | 195 ch |
| Elective Islamic ‎Course 1‎ | ISL \*\*\*‎ | **3 cp** | **2 ch** | **30** | **-** | **-** | **45** | 75 ch |
| Design & Analysis of ‎ Algorithms | CSI 321‎ | **6 cp** | **3 ch** | **30** | **-** | **30** | **90** | 150 ch |
| Computer Networks | CSI 322‎ | **6 cp** | **3 ch** | **30** | **30** | **-** | **90** | 150 ch |
| Computer Architecture | CSI 323‎ | **6 cp** | **3 ch** | **45** | **15** | **-** | **90** | 150 ch |
| Advanced Database | CSI 324‎ | **6 cp** | **3 ch** | **15** | **60** | **-** | **90** | 165 ch |
| Software Engineering 1‎ | CSI 325‎ | **6 cp** | **3 ch** | **30** | **30** | **-** | **90** | 150 ch |
| Probability & Statistics | STAT 320‎ | **6 cp** | **3 hc** | **45** | **-** | **15** | **90** | 150 ch |
| Artificial Intelligence | CSI 411 | 6 cp | 3 ch | 30 | 30 | - | 90 | 150 ch |
| Operating Systems | CSI 412 | 6 cp | 3 ch | 30 | 30 | - | 90 | 150 ch |
| Compiler Design | CSI 413 | 6 cp | 3 ch | 30 | 30 | - | 90 | 150 ch |
| Elective Course 1 | \*\*\* | 6 cp | 3 ch | - | - | - | 90 | 150 ch |
| Elective Arabic Course | ARAB \*\*\* | 3 cp | 2 ch | 30 | - | - | 45 | 75 ch |
| Elective Islamic Course 2 | ISL\*\*\* | 3 cp | 2 ch | 30 | - | - | 45 | 75 ch |
| Summer Training | CSI 400 | 2 cp | 1 ch | - | 30 | - | 30 | 60 ch |
| Distributed Systems &  Parallel Processing | CSI 421 | 6 cp | 3 ch | 30 | 30 | - | 90 | 150 ch |
| Software Engineering 2 | CSI 422 | 6 cp | 3 ch | 30 | 30 | - | 90 | 150 ch |
| Cryptography and Information Security | CSI 423 | 6 cp | 3 ch | 45 | 15 | - | 90 | 150 ch |
| Computer Graphics | CSI 425 | 6 cp | 3 ch | 30 | 30 | - | 90 | 150 ch |
| Elective Course 2 | \*\*\* | 6 cp | 3 ch | - | - | - | 90 | 150 ch |
| Elective Islamic Course 3 | ISL \*\*\* | 3 cp | 2 ch | 30 | - | - | 45 | 75 ch |
| Graduation Project 1 | CSI 510 | 3 cp | 2 ch | 30 | - | - | 45 | 75 ch |
| Web Programming  & Internet Technology | CSI 511 | 6 cp | 3 ch | 30 | 30 | - | 90 | 150 ch |
| Data Mining | CSI 512 | 6 cp | 3 ch | 30 | 30 | - | 90 | 150 ch |
| Concepts of Prg. Lang. | CSI 513 | 6 cp | 3 ch | 30 | 30 | - | 90 | 150 ch |
| Elective Course 3 | \*\*\* | 6 cp | 3 ch | - | - | - | 90 | 150 ch |
| Elective Prereq. Univ. | \*\*\* | 3 cp | 2 ch | 30 | - | - | 45 | 75 ch |
| Graduation Project 2 | CSI 520‎ | 6 cp | 3 ch | 45 | - | - | 90 | 135 ch |
| Human Computer Interaction | CSI 522‎ | 6 cp | 3 ch | 30 | 30 | - | 90 | 150 ch |
| Professional Ethics | CSI 525‎ | 3 cp | 2 ch | 30 | - | - | 45 | 75 ch |
| Elective Course 4 | ‎\*\*\*‎ | 6 cp | 3 ch | - | - | - | 90 | 150 ch |
| Free Elective Course | ‎\*\*\*‎ | 6 cp | 3 ch | - | - | - | 90 | 150 ch |
|  |  | 293 | 156 | - | - | - | - | 7570 ch |