

Old CS Program Curriculum Requirement (Curricula effective since First Semester 2008/2009)

133 credit hours (8 Semesters)=

27 Credit Hours (One year)

+ 106 Credit Hours (three years)

Level 1 (PY effective since 2008/2009)

| Course Code | Course Name | Number of Credits | Pre-requisite |
|--------------------------------|---|--------------------------|----------------------|
| 140TEC-3 | Computer Skills | 3 | |
| 140MATH-2 | Introduction of Mathematics | 2 | |
| 140SKL-2 | Learning, Thinking and Research Skills | 2 | |
| 140ENGG-2 | English Language: Reading Skills | 2 | |
| 141ENGG-2 | English Language: Writing Skills | 2 | |
| 142ENGG-2 | English Language: Listening and Speaking Skills | 2 | |
| 143ENGG-2 | English Language: Grammars | 2 | |
| Total Number of Credits | | 15 | |

Level 2 (PY effective since 2008/2009)

| Course Code | Course Name | Number of Credits | Pre-requisite |
|--------------------------------|----------------------------|--------------------------|----------------------|
| 150MAN-1 | Occupational Ethics | 1 | |
| 150MATH-4 | Algebraic Sciences | 4 | 140MATH-2 |
| 150SKL-2 | Communication Skills | 2 | |
| 150ENGG-3 | English Language: Speaking | 3 | |
| 151ENGG-2 | Report Writing | 2 | |
| Total Number of Credits | | 12 | |

Level 3

| Course Code | Course Name | Number of Credits | Pre-requisite |
|--------------------------------|---------------------------------|--------------------------|----------------------|
| 111ISL-2 | Introduction to Islamic Culture | 2 | |
| 201ARAB-2 | Arabic skills | 2 | |
| 104PHYS-4 | Fundamentals of Physics | 4 | |
| 111CSS-4 | Programming Language 1 | 4 | |
| 106MATH-3 | Introduction to Integration | 3 | |
| 152MATH-3 | Discrete Mathematics | 3 | |
| Total Number of Credits | | 18 | |

Level 4

| Course Code | Course Name | Number of Credits | Pre-requisite |
|--------------------------------|---|--------------------------|----------------------|
| 112ISL-2 | Introduction to Islamic Culture 2 | 2 | |
| 202ARAB-2 | Arabic writing | 2 | |
| 342MATH-3 | Linear Algebra | 3 | |
| 113CSS-4 | Programming Language 2 | 4 | 111CSS-4 |
| 324STAT-3 | Probabilities and Engineering Statistics | 3 | |
| 222CSS-3 | Computer Organization and Assembly Language | 3 | 111CSS-4 |
| Total Number of Credits | | 17 | |

Level 5

| Course Code | Course Name | Number of Credits | Pre-requisite |
|--------------------------------|--|-------------------|-----------------------|
| 113ISL-2 | Islamic Culture 3 | 2 | |
| 212CSS-3 | Data Structures | 3 | 111CSS-4 |
| 235CSS-3 | Theory of Computation | 3 | |
| 226CSS-2 | Unix System Environment | 2 | 111CSS-4 |
| 281CSS-3 | Computer Graphics | 3 | 111CSS-4 342MATH-3 |
| 333CSS-3 | Computer Architecture for Computer Science | 3 | 222CSS-3 |
| 330CSS-3 | Programming Paradigms | 3 | 113CSS-4 |
| Total Number of Credits | | 19 | |
| Level 6 | | | |
| Course Code | Course Name | Number of Credits | Pre-requisite |
| 227CSS-3 | Operating Systems | 3 | 226CSS-2 |
| 361CSS-3 | Artificial Intelligence | 3 | |
| 342CSS-3 | Software Engineering | 3 | 212CSS-4 |
| 380CSS-3 | Fundamentals of Database Systems | 3 | |
| 340CSS-3 | GUI Programming | 3 | |
| 457CSS-3 | Internet Technologies | 3 | |
| Total Number of Credits | | 18 | |
| Level 7 | | | |
| Course Code | Course Name | Number of Credits | Pre-requisite |
| 114ISL-2 | Islamic Culture 4 | 2 | |
| 491CSS-4 | Project 1 | 4 | 342CSS-3 |
| 345CSS-3 | Compiler Design and Construction | 3 | 235CSS-3 |
| 474CSS-3 | Design and Analysis of Algorithms | 3 | 212CSS-3 |
| 328CSS-3 | Human and Computer Interaction | 3 | |
| 329CSS-3 | Data Communication and Computer Networks | 3 | 227CSS-3 |
| Total Number of Credits | | 16 | |
| Level 8 | | | |
| Course Code | Course Name | Number of Credits | Pre-requisite |
| 492CSS-4 | Project 2 | 4 | 491CSS-4 |
| 456CSS-3 | Parallel and Distributed Systems | 3 | 329CSS-3 |
| 429CSS-3 | Computer Security | 3 | 329CSS-3 |
| 440CSS-3 | Social, Ethical and Professional Issues | 3 | |
| 410CSS-3 | Modern Topics in Computer Science | 3 | |
| Total Number of Credits | | 16 | |