

## **BS- Computer Science (Friday-Saturday-Sunday Classes)**

**Summary: 4 Years 8 Semesters (132 Credit hours)**

**42 courses / 8 semesters +**

Eligibility: Intermediate (Pre-Engineering / CS or equivalent certificate from recognized board)

**(Contact: 091-9218100 | 0332-8597525 | 0300-9030839 for admission dates/class schedules/venue of study).**

### **Semester wise Breakup of Courses:**

<b>Semester-I</b>		
<b>Course #</b>	<b>Course Title</b>	<b>Cr. Hrs</b>
1	Introduction to Computing	3+1
2	Programming Fundamentals	3+1
3	Calculus & Analytical Geometry	3
4	Pakistan Studies & Islamic Studies	3
5	Functional English-I	3
6	Principals of Marketing (University Elective)	3

<b>Semester-II</b>		
<b>Course #</b>	<b>Course Title</b>	<b>Cr. Hrs</b>
1	Digital Logic & Design	2+1
2	Object Oriented Programming	3+1
3	Multi Variable Calculus	3
4	Basic Electronics	3
5	English-II (Technical & Report writing)	3

<b>Semester-III</b>		
<b>Course #</b>	<b>Course Title</b>	<b>Cr. Hrs</b>
1	Discrete Structure	3
2	Data Structure & Algorithms	2+1
3	Linear Algebra	3
4	English-III (Communication Skills)	3
5	Probability & Statistics	3
6	Introduction to Psychology (University Elect)	3

<b>Semester-IV</b>		
<b>Course #</b>	<b>Course Title</b>	<b>Cr. Hrs</b>
1	Operating System	3+1
2	Differential Equations	3
3	Introduction to Data Base System	3+1
4	Introduction to Software Engineering	3
5	Computer Organization & Assembly language	2+1

<b>Semester-V</b>		
<b>Course #</b>	<b>Course Title</b>	<b>Cr. Hrs</b>
1	Computer Communication & Networks	2+1
2	Theory of Automata & Formal Languages	3
3	Computer Architecture	3
4	Human Computer Interactio	2+1
5	Numerical Computing	3
6	Principles of Management (University Elect)	3

<b>Semester-VI</b>		
<b>Course #</b>	<b>Course Title</b>	<b>Cr. Hrs</b>
1	Compiler Construction	2+1
2	CS Elective I (Web Engineering)	3
3	Entrepreneurship (University Elective)	3
4	Design and Analysis of Algorithms	2+1
5	CS Elective II (Android Application Development)	2+1

<b>Semester-VII</b>		
<b>Course #</b>	<b>Course Title</b>	<b>Cr. Hrs</b>
1	Software design Project I	3
2	Professional Practices	3
3	CS Elective VI (Distributed database system)	3
4	CS Elective IV (Internal Architecture and protocols)	3
5	Artificial Intelligence	2+1

<b>Semester-VIII</b>		
<b>Course #</b>	<b>Course Title</b>	<b>Cr. Hrs</b>
1	Software Design Project II	3
2	CS Elective V (Software Engineering II)	3
3	CS Elective III (Data Mining)	3
4	CS Elective VII (Computer Graphics)	2+1