

## 6 SEMESTER WISE STUDY PLAN - ADP (CS)

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### SEMESTER I

Code No.	Course Title	T	P	C
CS-1201	Introduction to ICT	2	1	3
CS-1001	Programming Fundamentals	3	1	4
HU-1002	English Composition & Comprehension	3	0	3
BS-1301	Calculus & Analytical Geometry	3	0	3
HU-2201	Islamic Studies / Ethics	2	0	2
<b>Total Credit Hours</b>			<b>15</b>	

### SEMESTER II

Code No.	Course Title	T	P	C
CS-1101	Digital Logic Design	3	1	4
MS-XXXX	University Elective	3	0	3
CS-1002	Object Oriented Programming	3	1	4
HU-2001	Communication & Presentation Skills	3	0	3
CS-2002	Discrete Structures	3	0	3
<b>Total Credit Hours</b>			<b>17</b>	

### SEMESTER III

Code No.	Course Title	T	P	C
CS-2001	Data Structures & Algorithms	3	1	4
CS-2101	Computer Organization & Assembly Language	2	1	4
CS-3001	Introduction to Software Engineering	3	0	3
CS-3002	Data Comm. & Comp. Networks	3	0	3
BS-1402	Probability & Statistics	3	0	3
<b>Total Credit Hours</b>		<b>16</b>		

### SEMESTER IV

Code No.	Course Title	T	P	C
CS-2103	Design & Analysis of Algorithms	3	0	3
CS-2004	Operating Systems	3	1	4
CS-2003	Database Systems	3	1	4
CS-XXXX	CS Elective	3	0	3
HU-2101	Pakistan Studies	2	0	2
<b>Total Credit Hours</b>		<b>16</b>		

## **7 STUDY PLAN for Pre-Medical Students - ADP (CS)**

### **SEMESTER I**

Code No.	Course Title	T	P	C
EM 001	Elementary Mathematics - I (non-credit deficiency course)	3	0	-
CS-1201	Introduction to ICT	2	1	3
CS-1001	Programming Fundamentals	3	1	4
HU-1002	English Composition & Comprehension	3	0	3
CS-2002	Discrete Structures	3	0	3
HU-2201	Islamic Studies / Ethics	2	0	2
<b>Total Credit Hours</b>		<b>15+3</b>		

### **SEMESTER II**

Code No.	Course Title	T	P	C
EM 001	Elementary Mathematics - I (non-credit deficiency course)	3	0	-
CS-1101	Digital Logic Design	3	1	4
MS-XXXX	University Elective	3	0	3
CS-1002	Object Oriented Programming	3	1	4
HU-2001	Communication & Presentation Skills	3	0	3
<b>Total Credit Hours</b>		<b>14+3</b>		

### SEMESTER III

Code No.	Course Title	T	P	C
CS-2001	Data Structures & Algorithms	3	1	4
CS-2101	Computer Organization & Assembly Language	2	1	3
CS-3001	Introduction to Software Engineering	3	0	3
CS-3002	Data Comm. & Comp. Networks	3	0	3
BS-1301	Calculus & Analytical Geometry	3	0	3
HU-2101	Pakistan Studies	2	0	2
<b>Total Credit Hours</b>		<b>18</b>		

### SEMESTER IV

Code No.	Course Title	T	P	C
CS-2103	Design & Analysis of Algorithms	3	0	3
CS-2004	Operating Systems	3	1	4
CS-2003	Database Systems	3	1	4
CS-XXXX	CS Elective	3	0	3
BS-1402	Probability & Statistics	3	0	3
<b>Total Credit Hours</b>		<b>17</b>		

## List of Electives

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S. No.	Code No.	Course Title	T	P	C
1.	CS-340	Network Security	3	0	3
2.	CS-XXXX	Software Requirements Engineering	3	0	3
3.	CS-424	Mobile Application Development	3	0	3
4.	CS-352	Web Engineering	3	0	3
5.	MS-3101	Entrepreneurship	3	0	3
6.	MS-4016	Social Media Marketing	3	0	3
7.	MS-XXXX	Professional Development & Freelancing	3	0	3
<b>Total Credit Hours</b>			<b>06</b>		

The **courses** and **semester plan** can be modified subject to the decision of Board of Studies.

After meeting with Industry experts, the following suggestions were proposed by them:

1. Guest (from Industry) Lectures + Grading (inclusion of the topic in syllabus)
2. Inclusion of following subjects:
  - a. IoT, the software element
  - b. Data Science
  - c. Artificial Intelligence
  - d. Technical & Business Writing
3. Career Counseling in 2<sup>nd</sup> semester