

# Semester Breakup

## SEMESTER I

SN	Course Code	Course Title	Credit Hours
1	ENGL1114	Functional English	3(3+0)
2	ISLA1111/ HUMN1111	Islamic Studies/Ethics*	2(2+0)
3	EDUC3111	Foundations of Education	3(3+0)
4	MATH1111	Calculus-1	3(3+0)
5	PHYS1113	Electronics	3(3+0)
6	ITEC1111	Information Systems	3(3+0)

\* For Non-Muslim Students only

## SEMESTER II

SN	Course Code	Course Title	Credit Hours
1	ENGL1119	Communication Skills	3(3+0)
2	PAKS1111	Pakistan Studies	2(2+0)
3	EDUC1112	General Methods of Teaching	3(3+0)
4	MATH2113	Discrete Mathematics	3(3+0)
5	PHYS4129	Digital Logic and Design	3(2+1)
6	COMP1112	Programming Fundamentals	4(3+1)

Six Credit Hours (**Non-credited**) **Teaching Practice** is mandatory to fulfill degree requirement. It will comprise of 3 weeks and it will be conducted twice i.e. before start of 3rd and 5th semester. It will have 3 credit hours (each time) for teaching / evaluation purpose; however, it will be reflected as non-credited course on the Transcript of 3<sup>rd</sup> and 5<sup>th</sup> semester.

### SEMESTER III

SN	Course Code	Course Title	Credit Hours
1	ENGL2115	Technical Writing and Presentation Skills	3(3+0)
2	EDUC3143	Educational Assessment	3(3+0)
3	STAT2111	Introduction to Statistics and Probability	3(3+0)
4	MATH2114	Elementary Linear Algebra	3(3+0)
5	COMP2111	Object Oriented Programming	4(3+1)
6	COMP2112	Software Engineering	3(3+0)
7	EDUC2127	Short Term Teaching Practice-I	Non Credit Course

### SEMESTER IV

SN	Course Code	Course Title	Credit Hours
1	EDUC2118	Curriculum Design and Instruction	3(3+0)
2	COMP2113	Data Structures and Algorithms	3(2+1)
3	COMP2114	Database Systems	4(3+1)
4	COMP2115	Operating Systems	3(3+0)
5	COMP3112	Computer Communications and Networks	3(3+0)

6	ITEC4112	Professional Practices	2(2+0)
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### SEMESTER V

SN	Course Code	Course Title	Credit Hours
1	ITECXXXX	IT Elective I	3(3+0)
2	ITECXXXX	IT Elective II	3(3+0)
3	ITEC3111	Web Engineering	3(2+1)
4	ITEC3112	Database Administration and Management	3(2+1)
5	ITEC3114	System and Network Administration Windows Based	3(2+1)
6	ITEC3115	Object Oriented Analysis and Design	3(3+0)
7	EDUC3160	Short Term Teaching Practice-II	Non Credit Course

### SEMESTER VI

SN	Course Code	Course Title	Credit Hours
1	ITECXXXX	IT Elective III	3(3+0)
2	ITECXXXX	IT Elective IV	3(3+0)
3	COMP3113	Human Computer Interaction	3(3+0)

4	ITEC3116	System and Network Administration Linux Based	3(2+1)
5	ITEC3117	Internet Architecture and Protocol	3(3+0)
6	ITEC3118	IT Project Management	3(3+0)

## SEMESTER VII

<b>SN</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Credit Hours</b>
1	ITECXXXX	IT Elective V	3(3+0)
2	ITEC4111	Network Security	3(3+0)
3	ITEC4124	Data Mining	3(3+0)
4	ITEC4114	Enterprise Resource Planning Systems	3(3+0)
5	ITEC4119	Artificial Intelligence	3(3+0)

## SEMESTER VIII

<b>SN.</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Credit Hours</b>
1	ITECXXXX	IT Elective VI	3(3+0)
2	ITECXXXX	IT Elective VII	3(3+0)
3	ITEC4122	Software Quality Assurance	3(3+0)
4	COMP4111	IT Capstone Project*	6(6+0)