

COURSE SCHEME

FIRST YEAR

1st Semester, Spring

S. No	Course	Subject/ Course Title	Credit Hours		
	Code		Th	Lab	Total
1	HU-101	English Language Proficiency (English-I)	3	0	3
2	HU-102	Islamic Studies/ Ethics	2	0	2
3	MS-101	Calculus & Analytical Geometry (Maths-I)	3	0	3
4	CE-101	Computing Fundamentals	3	1	4
5	CE-102	Computer Programming Principles-I	3	1	4
6	HU-103	Pakistan Studies	2	0	2
		Total	16	2	18

2nd Semester, Fall

S. No	Course	Subject/ Course Title	Credit Hours		
	Code		Th	Lab	Total
1	HU-104	Communication Skills (English-II)	3	0	3
2	MS-102	Linear Algebra & Differential Equations (Maths-II)	3	0	3
3	MS-103	Applied Physics	3	1	4
4	CE-103	Computer Programming Principles-II	2	1	3
5	EE-101	Basic Electrical Engineering	3	1	4
6	CE-104	Computer Aided Engineering Drawing	1	1	2
		Total	15	4	19

Summary	CH	37
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SECOND YEAR**1st Semester (3rd Term), Spring**

S. No	Course Code	Subject/ Course Title	Credit Hours		
			Th	Lab	Total
1	MS-201	Complex Analysis & Discrete Structures (Maths-III)	3	0	3
2	CE-201	Digital Logic Design	3	1	4
3	CE-202	Data Structures & Algorithms	3	1	4
4	EE-201	Basic Electronics	3	1	4
5	HU-201	Engineering Economics & Management	3	0	3
		Total	15	3	18

2nd Semester (4th Term), Fall

S. No	Course Code	Subject/ Course Title	Credit Hours		
			Th	Lab	Total
1	MS-203	Transform Methods (Maths-IV)	3	0	3
2	CE-204	Object Oriented Programming	2	1	3
3	CE-205	Operating System	3	1	4
4	EE-202	Circuit Analysis	3	1	4
5	EE-203	Sequential Circuit Design	3	1	4
		Total	14	4	18

Summary	CH	36
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Total upto 2nd Year	CH	73
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THIRD YEAR

1st Semester (5th Term), Spring

S. No	Course	Subject/ Course Title	Credit Hours		
	Code		Th	Lab	Total
1	CE-301	Database Management System (DBMS)	3	1	4
2	CE-302	Software Engineering	3	1	4
3	MS-301	Numerical Methods	3	1	4
4	CE-303	Web Engineering	2	1	3
5	CE-304	Microprocessor Based System Design	3	1	4
		Total	14	5	19

2nd Semester (6th Term), Spring

S. No	Course	Subject/ Course Title	Credit Hours		
	Code		Th	Lab	Total
1	MS-302	Probability & Statistics	3	0	3
2	CE-305	Signals & Systems	3	1	4
3	CE-306	Data Communication	3	1	4
4	CE-307	Computer Architecture & Organization	3	0	3
5	HU-301	Technical Report Writing (English-III)	2	0	2
		Total	14	2	16

Summary	CH	35
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Total upto 3rd Year	CH	108
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FOURTH YEAR**1st Semester (7th Term), Spring**

S. No	Course Code	Subject/ Course Title	Credit Hours		
			Th	Lab	Total
1	EE-401	Digital Signal Processing	2	1	3
2	CE-401	Computer Communication & Networks	3	1	4
3	CE-402	Distributed System	3	0	3
4	CE-403	Parallel Processing	3	0	3
5	HU-401	Project Management & Entrepreneurship	2	0	2
		Total	13	2	15

2nd Semester (8th Term), Fall

S. No	Course Code	Subject/ Course Title	Credit Hours		
			Th	Lab	Total
1	CE-404	Mobile Computing	3	1	4
2	CE-405	Artificial Intelligence	2	1	3
3	CE-406	Computer Security	2	1	3
4	CE-407	VLSI Design Techniques	3	1	4
5		Final Year Project (FYP)	0	3	3
		Total	10	7	17

Summary	CH	32
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Total upto 4th (Final) Year	CH	140
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