

Scheme of Studies

Semester 1		Contact hours		Credit hours
Course Code	Course Title	Lecture	Lab.	Total
BSI-101	Islamic Studies	2	0	2
BSI-122	Calculus	3	0	3
BSI-131	English Composition & Comprehension	2	0	2
BSI-181	Applied Physics	3	3	4
CSE-101	Computer Fundamentals	3	3	4
ME-106	Engineering Workshop	0	3	1
	Total Contact Hours	13	9	
	Total Credit Hours	13	3	16

Semester 3		Contact hours		Credit hours
Course Code	Course Title	Lecture	Lab.	Total
BSI-111	Linear Algebra	3	0	3
BSI-362	Complex Variables	3	0	3
CSE-202	Digital Logic Design	3	3	4
CSE-203	Circuits & System-II	3	3	4
CSE-208	Object Oriented Programming	3	3	4
	Total Contact Hours	15	9	
	Total Credit Hours	15	3	18

Semester 5		Contact hours		Credit hours
Course Code	Course Title	Lecture	Lab.	Total
CSE-309	Communication Systems	3	3	4
CSE-302	Systems Programming	3	3	4
CSE-402	Digital Signal Processing	3	3	4
CSE-304	Computer Organization & Architecture	3	3	4
CSE-305	Engineering Economics	3	0	3
	Total Contact Hours	15	12	
	Total Credit Hours	15	4	19

Semester 7		Contact hours		Credit hours
Course Code	Course Title	Lecture	Lab.	Total
CSE-401a	Final year Project	0	9	3
BSI-120	Professional Ethics	2	0	2
CSE-310	Control Systems	3	3	4
CSE-4xx	Technical Elective-I	3	3	4
CSE-4xx	Technical Elective-II	3	0	3
	Total Contact Hours	11	15	
	Total Credit Hours	11	5	16

Semester 2		Contact hours		Credit hours
Course Code	Course Title	Lecture	Lab.	Total
BSI-110	Pakistan Studies	2	0	2
BSI-231	Differential Equation	3	0	3
CSE-102	Computer Programming	3	3	4
CSE-103	Circuit & Systems-I	3	3	4
ME-104	Engineering Drawing & CAD	2	3	3
BSI-141	Communication & Presentation Skills	2	0	2
	Total Contact Hours	15	9	
	Total Credit Hours	15	3	18

Semester 4		Contact hours		Credit hours
Course Code	Course Title	Lecture	Lab.	Total
CSE-204	Operating Systems	3	3	4
CSE-301	Signals & Systems	3	3	4
CSE-206	Electronic Circuits	3	3	4
CSE-209	Probability Methods in Engineering	3	0	3
CSE-210	Data Structures and Algorithms	3	3	4
	Total Contact Hours	15	12	
	Total Credit Hours	15	4	19

Semester 6		Contact hours		Credit hours
Course Code	Course Title	Lecture	Lab.	Total
CSE-303	Data Communication & Networks	3	3	4
CSE-307	Microprocessor Based System Design	3	3	4
CSE-308	Digital System Design	3	3	4
CSE-403	Database Management System	3	3	4
CSE-311	Technical Writing	3	0	3
	Total Contact Hours	15	12	
	Total Credit Hours	15	4	19

Semester 8		Contact hours		Credit hours
Course Code	Course Title	Lecture	Lab.	Total
CSE-401b	Final year Project	0	9	3
CSE-406	Engineering Project Management	3	0	3
CSE-4xx	Technical Elective-III	3	0	3
CSE-4xx	Technical Elective-IV	3	0	3
	Total Contact Hours	9	9	
	Total Credit Hours	9	3	12

Total Credit = 137

Note : Chairman of the Department is authorized to rearrange the order of courses from the approved courses, depending upon the availability of faculty and market demands.

***List of Technical Electives**

(More elective courses could be added and the credit hours can be split according to the requirement of the University)

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| <ul style="list-style-type: none"> ► Embedded Systems ► Advanced Computer Architecture ► Digital Image Processing ► Advanced Electronics ► Computer Security ► Robotics ► Web Engineering | <ul style="list-style-type: none"> ► Entrepreneurship ► Artificial Intelligence ► Software Engineering ► Modern Programming Languages ► Digital Communication ► Wireless Communication ► Multimedia Communication | <ul style="list-style-type: none"> ► Computer Graphics ► Network Modeling & Simulation ► Fault Tolerant Computing ► Artificial Neural Network ► Parallel and Distributed Computing ► Discrete Structures ► Numerical Analysis | <ul style="list-style-type: none"> ► Network Programming ► Optical Networks ► IP Networks ► Human Computer Interaction ► Data Analytics ► Special Topics ► Intro to Game Development |
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