

BS Software Engineering				
Semester 1				
	Course Code	Course Title	Credit Hours	Section
	CP103 / CSCI1513	Introduction to Computing	3	3
	CP101	Introduction to Computing - Lab	1	3
	GE102 / CSCI1723	Basic Electronics	3	3
	GE101	Basic Electronics - Lab	1	3
	ENG110	Functional English	3	3
	PAK102	Ideology and Constitution of Pakistan	2	3
	AL143	Discrete Structures	3	3
	MAT103	Pre-Calculus (Only medical background)	3	2
Semester 2				
	Course Code	Course Title	Credit Hours	Section
	CP113	Programming Fundamentals (PF-SE-T) – Theory	3	8
	CP111	Programming Fundamentals (PF-SE-L) – Lab	1	8
	AR102	Digital Logic and Design	2	8
	AR101	Digital Logic and Design - Lab	1	8
	ENG211	English II	3	8
	CCE201	Civics and Community Engagement	2	8
	MAT113	Calculus and Analytical Geometry	3	8
	MAT123	Elementary Algebra	3	8
Semester 3				
	Course Code	Course Title	Credit Hours	Section
	CP223	Object Oriented Programming	3	2
	CP221	Object Oriented Programming Lab	1	2
	AR223	Computer Organization and Assembly Language (COAL-SE-T) Theory	3	2
	AR221	Computer Organization and Assembly Language (COAL-SE-L) Lab	1	2
	MAT253	Probability and Statistics (PROB-SE)	3	2
	SEP203	Professional Practices (PP-SE)	3	2

	MAT243	Multivariable Calculus (MVC-SE)	3	2
	SESD2213	Software Requirements Engineering	3	1
	ENT102	Entrepreneurship (ENT-SE)	2	2
Semester 4				
	Course Code	Course Title	Credit Hours	Section
	SECP2043	Data Structure & Algorithms (DSA-SE-T) – Theory	3	7
	SECP2041	Data Structure & Algorithms (DSA-SE-L) – Lab	1	7
	SESD2222	Software Design & Architecture (SDA-SE-T) - Theory	2	7
	SESD2221	Software Design & Architecture (SDA-SE-L) – Lab	1	7
	SESD3233	Web Engineering	3	7
	ENG203	Technical and Business Writing (Eng-III-SE)	3	7
	SESS2733	Probability and Statistics (PROB-SE)	3	7
Semester 5				
	Course Code	Course Title	Credit Hours	Section
	SENS3513	Operating Systems (OS-SE-T) Theory	3	3
	SENS3511	Operating Systems (OS-SE-L) Lab	1	3
	SESE2123	Human Computer Interaction (HCI-SE)	3	3
	SEST2613	Business Process Engineering (BPE-SE)	3	3
	SESE3143	Web Application Development	3	3
	SEGE2933	Technology Entrepreneurship (T-ENT-SE)	3	2
	SEGE1973	Financial Accounting (FA-SE)	3	1
Semester 6				
	Course Code	Course Title	Credit Hours	Section
	SENS3523	Computer Comm. and Networks (CCN-SE-T) Theory	3	5
	SENS3521	Computer Comm. and Networks (CCN-SE-L) Lab	1	5
	SESD3242	Software Construction and Development (SCD-SE-T) - Theory	2	5
	SESD3241	Software Construction and Development (SCD-SE-L) –Lab	1	5
	SESE3133	Formal Methods in Software Engineering (FM-SE)	3	5
	SECP4063	Advance Web Programming (AWP-SE)	3	5

	SEAD3463	Applied using Machine Learning (AML-SE)	3	5
Semester 7				
	Course Code	Course Title	Credit Hours	Section
	SENS4533	Information Security – (ISEC-SE)	3	5
	SESM4323	Software Project Management – (SPM-SE)	3	5
	SESE4143	Software Re-engineering – (SREE-SE)	3	5
	SESD4913	Final Year Project I – (FYP-SE-I)	3	1
	SESD3263	Automation Software Testing (AST-SE)	3	5
	SEST4663	DevOps Fundamentals (DF-SE)	3	5
Semester 8				
	Course Code	Course Title	Credit Hours	Section
	SEGE3953	Professional Practices	3	7
	SESM3313	Software Quality Engineering	3	7
	SESD4923	Final Year Project II	3	1
	SESS3763	Operation Research	3	3
	SESS3753	Stochastic Processes	3	3
	SEGE4963	Organizational Behaviour and Culture	3	6
	SEGE3993	Fundamentals of Enterprise Resource Planning	3	6