

BS Software Engineering

	Course Code	Course Title	Credit Hrs	Sections	
	CP103	Introduction to Computing	3	10	
	CP101	Introduction to Computing - Lab	1	10	
	GE102	Basic Electronics	2	10	
	GE101	Basic Electronics - Lab	1	10	
	ENG110	Functional English	3	10	
	PAK102	Ideology and Constitution of Pakistan	2	10	
	AL143	Discrete Structures	3	10	
	Only for Pre-Med Students				
		MAT103	Pre-Calculus (Only medical background)	3	2
	Semester 2	Sections:			
Course Code		Course Title	Credit Hrs	Sections	
CP113		Programming Fundamentals (PF-SE-T) – Theory	3	2	
CP111		Programming Fundamentals (PF-SE-L) – Lab	1	2	
AR102		Digital Logic and Design	2	2	
AR101		Digital Logic and Design - Lab	1	2	
ENG102		English II	3	2	
CCE201		Civics and Community Engagemen	2	2	
MAT113		Calculus and Analytical Geometry	3	2	
Only for Pre-Med Students					
	MAT123	Elementary Algebra	3	2	

Semester 3	Sections:			
	Course Code	Course Title	Credit Hrs	Sections
	SECP2033	Object Oriented Programming	3	3
	SECP2031	Object Oriented Programming Lab	1	3
	SESD2213	Software Requirements Engineering	3	3
	SEAD3423	Introduction to Database Systems - Theory	3	3
	SEAD3421	Introduction to Database Systems – Lab	1	3
	SESS2743	Linear Algebra	3	3
	QTR101	Quran Translation	1	3
	ISL201	Islamic studies	2	3
Semester 4	Sections			
	Course Code	Course Title	Credit Hrs	Sections
	SECP2043	Data Structure & Algorithms (DSA-SE-T) – Theory	3	3
	SECP2041	Data Structure & Algorithms (DSA-SE-L) – Lab	1	3
	SESD2222	Software Design & Architecture (SDA-SE-T) - Theory	2	3
	SESD2221	Software Design & Architecture (SDA-SE-L) – Lab	1	3
	SESD3233	Web Engineering	3	3
	ENG203	Technical and Business Writing (Eng-III-SE)	3	3
	SESS2733	Probability and Statistics (PROB-SE)	3	3
	Sections:			
	Course Code	Course Title	Credit Hrs	Sections
	SENS3513	Operating Systems (OS-SE-T) Theory	3	7

Semester 5	SENS3511	Operating Systems (OS-SE-L) Lab	1	7
	SESE2123	Human Computer Interaction (HCI-SE)	3	7
	SEST2613	Business Process Engineering (BPE-SE)	3	7
	SESE3143	Web Application Development	3	7
	SEGE2933	Technology Entrepreneurship (T-ENT-SE)	3	3
	SEGE1913	Introduction to Business (ITOB-SE)	3	2
	SEGE1973	Financial Accounting (FA-SE)	3	2
Semester 6	Sections:			
	Course Code	Course Title	Credit Hrs	Sections
	SENS3523	Computer Comm. and Networks (CCN-SE-T) Theory	3	5
	SENS3521	Computer Comm. and Networks (CCN-SE-L) Lab	1	5
	SESE3133	Formal Methods in Software Engineering (FM-SE)	3	5
	SESD3242	Software Construction and Development (SCD-SE-T) - Theory	2	5
	SESD3241	Software Construction and Development (SCD-SE-L) -Lab	1	5
	SECP4063	Advance Web Programming (AWP-SE)	3	5
	SEAD3463	Text Analysis using Machine Learning	3	5
Semester 7	Sections:			
	Course Code	Course Title	Credit Hrs	Sections
	SENS4533	Information Security – (ISEC-SE)	3	6
	SESM4323	Software Project Management – (SPM-SE)	3	6
	SESE4143	Software Re-engineering – (SREE-SE)	3	6
SESD4913	Final Year Project I – (FYP-SE-I)	3	1	

	SESD3263	Automation Software Testing (AST-SE)	3	6
	SEST4663	DevOps Fundamentals (DF-SE)	3	6
Semester 8	Sections:			
	Course Code	Course Title	Credit Hrs	Sections
	SEGE3953	Professional Practices	3	9
	SESM3313	Software Quality Engineering	3	2
	SESS3763	Operation Research	3	2
	SESS3753	Stochastic Processes	3	1
	SESD4923	Final Year Project II	1	2
	SEGE4963	Organizational Behaviour and Culture	3	3
	SEGE3993	Fundamentals of Enterprise Resource Planning	3	1
	SEGE1923	Human Resource Management (HRM-SE)	3	1
	SEGE3963	Fundamental of Marketing (FOM-SE)	3	1