

	BS Software Engineering			
Semester 1	Summer 2025			
	Course Code	Course Title	Credit Hours	Section
	CP103 / CSCS1513	Introduction to Computing	3	1
	CP101	Introduction to Computing - Lab	1	1
	GE102 / CSSS1723	Basic Electronics	3	1
	GE101	Basic Electronics - Lab	1	1
	ENG110	Functional English	3	1
	PAK102	Ideology and Constitution of Pakistan	2	1
	ENT101	Fundamental of Entrepreneurship	1	1
	AL143	Discrete Structures	3	1
	MAT103	Pre-Calculus (Only medical background)	3	1
Semester 2				
	Course Code	Course Title	Credit Hours	Section
	CP113	Programming Fundamentals (PF-SE-T) – Theory	3	1
	CP111	Programming Fundamentals (PF-SE-L) – Lab	1	1
	AR102	Digital Logic and Design	2	1
	AR101	Digital Logic and Design - Lab	1	1
	ENG211	English II	3	1
	CCE201	Civics and Community Engagement	2	1
	MAT113	Calculus and Analytical Geometry	3	1
	SESE1113	Software Engineering	3	1
	MAT123	Elementary Algebra	3	1
	Course Code	Course Title	Credit Hours	Section
	CP223	Object Oriented Programming	3	1

Semester 3	CP221	Object Oriented Programming Lab	1	1
	AR223	Computer Organization and Assembly Language (COAL-SE-T) Theory	3	1
	AR221	Computer Organization and Assembly Language (COAL-SE-L) Lab	1	1
	MAT253	Probability and Statistics (PROB-SE)	3	1
	SEP203	Professional Practices (PP-SE)	3	1
	MAT243	Multivariable Calculus (MVC-SE)	3	1
	SESD2213	Software Requirements Engineering	3	1
	ENT102	Entrepreneurship (ENT-SE)	2	1
	SEAD3423	Introduction to Database Systems	3	1
	SEAD3421	Introduction to Database Systems - Lab	1	1
	SESS2743	Linear Algebra	3	1
	ISL201	Islamic Studies	2	1
Semester 4				
	Course Code	Course Title	Credit Hours	Section
	SECP2043	Data Structure & Algorithms (DSA-SE-T) – Theory	3	1
	SECP2041	Data Structure & Algorithms (DSA-SE-L) – Lab	1	1
	SESD2222	Software Design & Architecture (SDA-SE-T) - Theory	2	1
	SESD2221	Software Design & Architecture (SDA-SE-L) – Lab	1	1
	SESD3233	Web Engineering	3	1
	ENG203	Technical and Business Writing (Eng-III-SE)	3	1
	SESS2733	Probability and Statistics (PROB-SE)	3	1
Semester 5				
	Course Code	Course Title	Credit Hours	Section
	SENS3513	Operating Systems (OS-SE-T) Theory	3	1
	SENS3511	Operating Systems (OS-SE-L) Lab	1	1
	SESE2123	Human Computer Interaction (HCI-SE)	3	1

	SEST2613	Business Process Engineering (BPE-SE)	3	1
	SESE3143	Web Application Development	3	1
	SEGE1913	Introduction to Business	3	1
Semester 6				
	Course Code	Course Title	Credit Hours	Section
	SENS3523	Computer Comm. and Networks (CCN-SE-T) Theory	3	1
	SENS3521	Computer Comm. and Networks (CCN-SE-L) Lab	1	1
	SESD3242	Software Construction and Development (SCD-SE-T) - Theory	2	1
	SESD3241	Software Construction and Development (SCD-SE-L) –Lab	1	1
	SESE3133	Formal Methods in Software Engineering (FM-SE)	3	1
	SECP4063	Advance Web Programming (AWP-SE)	3	1
	SEAD3233	Artificial Intelligence	3	1
Semester 7				
	Course Code	Course Title	Credit Hours	Section
	SENS4533	Information Security – (ISEC-SE)	3	1
	SESM4323	Software Project Management – (SPM-SE)	3	1
	SESE4143	Software Re-engineering – (SREE-SE)	3	1
	SESD3263	Automation Software Testing (AST-SE)	3	1
	SEST4663	DevOps Fundamentals (DF-SE)	3	1
Semester 8				
	Course Code	Course Title	Credit Hours	Section
	SEGE3953	Professional Practices	3	1
	SESM3313	Software Quality Engineering	3	1
	SESS3763	Operation Research	3	1
	SESS3753	Stochastic Processes	3	1
	SEGE4963	Organizational Behaviour and Culture	3	1

	PSY101	Introduction to Psychology	3	1
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