

## BS Software Engineering

Fall 2023		
Course Code	Course Title	Sections
SECP1013	Introduction to Computing	12
SECP1011	Introduction to Computing Lab	12
ENG101	English I	12
ENT101	Fundamentals of Entrepreneurship (ENT-SE)	12
SESS1723	Basic Electronics	12
PAK101	Pakistan Studies	12
PSY101	Introduction to Psychology (PSY-SE)	12
SESS1773	Pre-calculus (Only medical background)	3

  

Fall 2023		
Course Code	Course Title	Sections
SECP1023	Programming Fundamentals	3
SECP1021	Programming Fundamentals Lab	3
ENG102	ENGLISH II	3
SEAD1413	Discrete Structures	3
SESE1113	Software Engineering	3
SESS1713	Calculus and Analytical Geometry	3
SESS1783	Elementary Algebra	1

  

Fall 2023		
-----------	--	--

<b>Semester 3</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Sections</b>
	SECP2033	Object Oriented Programming	8
	SECP2031	Object Oriented Programming Lab	8
	SESD2213	Software Requirements Engineering	8
	SEAD3423	Introduction to Database Systems - Theory	8
	SEAD3421	Introduction to Database Systems – Lab	8
	SESS2743	Linear Algebra	8
	ISL201	Islamic studies	8
<b>Semester 4</b>	<b>Fall 2023</b>		
	<b>Course Code</b>	<b>Course Title</b>	<b>Sections</b>
	SECP2043	Data Structure & Algorithms (DSA-SE-T) – Theory	5
	SECP2041	Data Structure & Algorithms (DSA-SE-L) – Lab	5
	SESD2222	Software Design & Architecture (SDA-SE-T) - Theory	5
	SESD2221	Software Design & Architecture (SDA-SE-L) – Lab	5
	SESD3233	Web Engineering	5
	SEHU2873	Technical and Business Writing (Eng-III-SE)	5
	SESS2733	Probability and Statistics (PROB-SE)	5
	<b>Semester 4</b>	<b>Fall 2023</b>	
<b>Course Code</b>		<b>Course Title</b>	<b>Sections</b>
SENS3513		Operating Systems (OS-SE-T) Theory	9
SENS3511		Operating Systems (OS-SE-L) Lab	9

Semester 5	SEAD3233	Artificial Intelligence (AI-SE)	2
	SEAD4483	Introduction to Image Processing (IIP-SE)	2
	SESM3363	Software Quality Assurance (SQA-SE)	2
	SEAD4493	Data Analysis Techniques (DAT-SE)	1
	SEGE1973	Financial Accounting (FA-SE)	1
	SEGE1913	Introduction to Business (ITOB-SE)	2
	SEGE3963	Fundamental of Marketing (FOM-SE)	2
	SESE4153	Object Oriented Software Engineering (OOSE-SE)	1
	SEGE2933	Technology Entrepreneurship (T-ENT-SE)	2
	SEGE1923	Human Resource Management	2
Semester 6	<b>Fall 2023</b>		
	<b>Course Code</b>	<b>Course Title</b>	<b>Sections</b>
	SENS3523	Computer Comm. and Networks (CCN-SE-T) Theory	3
	SENS3521	Computer Comm. and Networks (CCN-SE-L) Lab	3
	SESD3242	Software Construction and Development (SCD-SE-T) - Theory	3
	SESD3241	Software Construction and Development (SCD-SE-L) –Lab	3
	SECP3053	Mobile Application Development (MAD-SE) (SE Elective – I)	3
	SEST4653	Design Patterns (DP-SE)	1
	SECP4063	Advance Web Programming (AWP-SE)	1
	SESE3133	Formal Methods in Software Engineering (FM-SE)	3
<b>Fall 2023</b>			

<b>Semester 7</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Sections</b>
	SENS4533	Information Security – (ISEC-SE)	9
	SESM4323	Software Project Management – (SPM-SE)	9
	SESD4913	Final Year Project I – (FYP-SE-I)	1
	SESE4143	Software Re-engineering – (SREE-SE)	9
	SEAD3453	Introduction to Machine Learning (IML-SE) (SE Elective – II)	4
	SESD3253	Software Testing (ST-SE)	4
	SESD4273	Software Analysis and Design (SAD-SE)	1
	SENS4553	Blockchain Essentials (BCE-SE)	2
	SEAD3443	Introduction to Data Science (IDS-SE)	2
	SECP4083	Big Data Analytics (BDA-SE)	1
	SEAD4463	Introduction to Natural Language Processing (INLP-SE)	2
	SEAD4473	Introduction to Deep Learning (IDL-SE)	2
<b>Semester 8</b>	<b>Fall 2023</b>		
	<b>Course Code</b>	<b>Course Title</b>	<b>Sections</b>
	SEGE3953	Professional Practices	2
	SESD4923	Final Year Project II	1
	SECP4073	Programming for Big Data	2
	SEST4693	Introduction to Data Warehousing and Mining (IDWM-SE)	1
	SEST3673	Introduction to Cloud Computing	2
	SEGE3993	Fundamentals of Enterprise Resource Planning	1

