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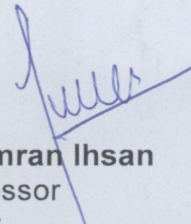
Director Academics

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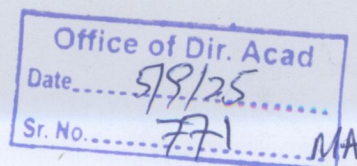
Dean Faculty of Computing & AI

Recommended, please. Apr.
5/9/25.

1. The Department of Creative Technologies has held a **DBS meeting** on curriculum changes for **BSAI, BSDS, and BSSE** programs for the **Fall 2025 intake and onwards**, followed by the **FBS**.
 - The relevant minutes of these meetings are attached as **Flag A** and **Flag B**.
 - The updated curriculums for Fall 2025 and onwards are attached as **Flag C**.
 - Additionally, the **Fall 2023 curriculums** for all three programs have also been updated with the inclusion of **Pakistan Studies (HU115) in Semester 7**. (Attached as **Flag D**).
2. The case is hereby forwarded for kind **approval of the updated curriculums, please**


Dr. Imran Ihsan
Professor
Chair
Department of Creative Technologies

05 Sep 2025



Approved
Prof. A. H. Khan

2/1/12
Prof. A. H. Khan

Office of Dir. Acad.
Date: 2/1/12
Sl. No. 21

Scheme of Studies

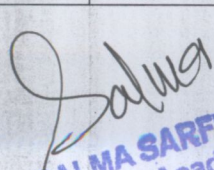
Faculty of Computing and Artificial Intelligence

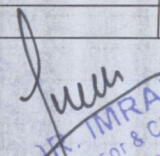
Department of Creative Technologies

Bachelor of Science in Software Engineering

(Applicable from Fall-2025 Intake & Onwards)

Framework of BSAI Program					
Area	Category	Code	Course Title	Cr. Hrs.	%
Computing	Computing Core	CS111	Programming Fundamentals	3-0-3	✓
		CS111L	Programming Fundamentals Lab	0-1-1	✓
		CS112	Object Oriented Programming	3-0-3	
		CS112L	Object Oriented Programming Lab	0-1-1	
		CS130	Database Systems	3-0-3	
		CS130L	Database Systems Lab	0-1-1	
		EE123	Digital Logic Design	2-0-2	
		EE123L	Digital Logic Design ^o Lab	0-1-1	
		CS216	Data Structures	3-0-3	
		CS216L	Data Structures Lab	0-1-1	
		CS215	Information Security	2-0-2	
		CS215L	Information Security Lab	0-1-1	
		AI232	Introduction to Artificial Intelligence	2-0-2	
		AI232L	Introduction to Artificial Intelligence Lab	0-1-1	
		CS260	Computer Networks	2-0-2	
		CS260L	Computer Networks Lab	0-1-1	
		SE101	Introduction to Software Engineering	3-0-3	✓
		CS226	Computer Organization and Assembly Language	2-0-2	
		CS226L	Computer Organization and Assembly Language Lab	0-1-1	
		CS325	Operating Systems	2-0-2	
		CS325L	Operating Systems Lab	0-1-1	
		CS332	Design and Analysis of Algorithms	3-0-3	
		SE497	Final Year Project – I	0-1-1	
		SE498	Final Year Project – II	0-2-2	
		SE499	Final Year Project - III	0-3-3	
	Domain Core	SE216	Software Design and Architecture	3-0-3	
		SE200	Software Requirement Engineering	2-0-2	
		SE200L	Software Requirement Engineering Lab	0-1-1	
		CS426	Parallel and Distributed Computing	2-0-2	
		CS426L	Parallel and Distributed Computing Lab	0-1-1	
		SE321	Software Construction and Development	2-0-2	
		SE321L	Software Construction and Development Lab	0-1-1	
		SE441	Software Quality Engineering	2-0-2	
		SE441L	Software Quality Engineering Lab	0-1-1	
		SE453	Software Project Management	2-0-2	
		SE453L	Software Project Management Lab	0-1-1	
	Domain Elective	SEXXX	SE Elective – I	2-0-2	
		SEXXXL	SE Elective – I Lab	0-1-1	
		SEXXX	SE Elective – II	2-0-2	
		SEXXXL	SE Elective – II Lab	0-1-1	
		SEXXX	SE Elective – III	2-0-2	
		SEXXXL	SE Elective – III Lab	0-1-1	
		SEXXX	SE Elective – IV	2-0-2	


(SALMA SARFRAZ)
 Manager Academics
 Air University, Islamabad


PROF. IMRAN IHSAN
 Professor & Chair Department
 Department of Creative Technologies
 - CAI, Air University

		SEXXXL	SE Elective – IV Lab	0 – 1 – 1	
		SEXXX	SE Elective – V	2 – 0 – 2	
		SEXXXL	SE Elective – V Lab	0 – 1 – 1	
		SEXXX	SE Elective – VI	2 – 0 – 2	
		SEXXXL	SE Elective – VI Lab	0 – 1 – 1	
		SEXXX	SE Elective – VII	2 – 0 – 2	
		SEXXXL	SE Elective – VII Lab	0 – 1 – 1	
Total	Number of Computing Core Courses: *14			Cr. Hrs. : 46 (30 – 16)	62%
	Number of Domain Core Courses: 06			Cr. Hrs. : 18 (13 – 5)	
	Number of Domain Elective Courses: 07			Cr. Hrs. : 21 (14 – 7)	
	Number of Computing Courses: 27			Cr. Hrs. : 85 (57 – 28)	
	* Note: FYP-I, FYP-II, and FYP-III are considered two rather than three courses.				
Non-Computing	Mathematics & Supporting Courses	MA105	Multivariable Calculus	3 – 0 – 3	
		MA201	Linear Algebra	3 – 0 – 3	
		MA301	Probability and Statistics	3 – 0 – 3	
		EL400	Technical & Business Writing	3 – 0 – 3	
	Elective Supporting	XXXXX	Elective Supporting - I	3 – 0 – 3	
	General Education Requirement Courses	CS181	Applications of Information & Communication Technologies	2 – 0 – 2	
		CS181L	Applications of Information & Communication Technologies Lab	0 – 1 – 1	
		EL170	Functional English	3 – 0 – 3	
		EL271	Expository Writing	3 – 0 – 3	
		MA216	Quantitative Reasoning – I (Discrete Structures)	3 – 0 – 3	
		MA110	Quantitative Reasoning – II (Calculus & Analytical Geometry)	3 – 0 – 3	
		HU124	Islamic Studies & Ethics	2 – 0 – 2	
		HU405	Ideology and Constitution of Pakistan	2 – 0 – 2	
		BA152	Social Sciences (Introduction to Management)	2 – 0 – 2	
		PH111	Natural Sciences (Applied Physics)	2 – 0 – 2	
		PH111L	Natural Sciences (Applied Physics Lab)	0 – 1 – 1	
		CS470	Arts & Humanities (Professional Practices)	2 – 0 – 2	
		HU411	Civics and Community Engagement	2 – 0 – 2	
		BA353	Entrepreneurship	2 – 0 – 2	
		HU115	Pakistan Studies	2 – 0 – 2	
		FQ100	Fehm-e-Quran I	0 – 1 – 1	
		FQ101	Fehm-e-Quran II	0 – 1 – 1	
Total	Number of Mathematics and Supporting Courses: 04			Cr. Hrs. : 12 (12 – 0)	38%
	Number of Elective Supporting Courses: 01			Cr. Hrs. : 3 (3 – 0)	
	Number of General Education Requirement Courses: 15			Cr. Hrs. : 34 (30 – 4)	
	Number of Non-Computing Courses: 20			Cr. Hrs. : 49 (45 – 4)	
Grand Total	Total Number of Courses: 47 + Internship				
	Total Cr. Hrs. : 134 (102 – 32) + Internship (03) = 137				

22/09/25

Salma 22/9/25
(SALMA SARFRAT)
Manager Academics
Air University, Islamabad

DR. IMRAN IHSAN
Professor & Chair Department
Department of Creative Technologies
FCAT, Air University

Semester-Wise Scheme of Studies

Faculty of Computing and Artificial Intelligence

Department of Creative Technologies

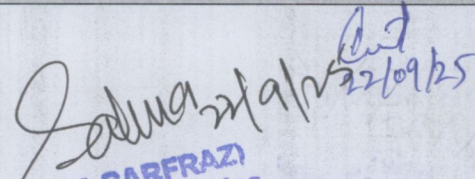
Bachelor of Science in Software Engineering

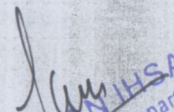
(Applicable from Fall-2025 Intake & Onwards)

Semester – I				
S. No.	Code	Course Title	Pre-Req.	Cr. Hrs.
1	CS111	Programming Fundamentals		3 – 0 – 3
2	CS111L	Programming Fundamentals Lab		0 – 1 – 1
3	CS181	Applications of Information & Communication Technologies		2 – 0 – 2
4	CS181L	Applications of Information & Communication Technologies Lab		0 – 1 – 1
5	EL170	Functional English		3 – 0 – 3
6	HU124	Islamic Studies & Ethics		2 – 0 – 2
7	PH111	Applied Physics		2 – 0 – 2
8	PH111L	Applied Physics Lab		0 – 1 – 1
9	HU115	Pakistan Studies		2 – 0 – 2
10	*MA114	Foundational Mathematics (Non-Credit for Medical students)		3 – 0 – 3
Total Contact Hours: 23			Total Cr. Hr.	14 – 3 – 17

Semester – II				
S. No.	Code	Course Title	Pre-Req.	Cr. Hrs.
1	CS112	Object Oriented Programming	CS111, CS111L	3 – 0 – 3
2	CS112L	Object Oriented Programming Lab	CS111, CS111L	0 – 1 – 1
3	EE123	Digital Logic Design	-	2 – 0 – 2
4	EE123L	Digital Logic Design Lab	-	0 – 1 – 1
5	CS260	Computer Networks	-	2 – 0 – 2
6	CS260L	Computer Networks Lab	-	0 – 1 – 1
7	SE101	Introduction to Software Engineering	-	3 – 0 – 3
8	MA216	Discrete Structures	-	3 – 0 – 3
9	FQ100	Fahm-e-Quran I	-	0 – 1 – 1
10	*MA118	Pre-Calculus (Non-Credit for Medical Students only)	-	3-0-3
Total Contact Hours: 25			Total Cr. Hr.	13 – 4 – 17

Semester – III				
S. No.	Code	Course Title	Pre-Req.	Cr. Hrs.
1	CS216	Data Structures	CS112, CS112L	3 – 0 – 3
2	CS216L	Data Structures	CS112, CS112L	0 – 1 – 1
3	CS226	Computer Organization and Assembly Language	EE123, EE123L	2 – 0 – 2
4	CS226L	Computer Organization and Assembly Language Lab	EE123, EE123L	0 – 1 – 1
5	SE200	Software Requirement Engineering	SE101	2 – 0 – 2
6	SE200L	Software Requirement Engineering Lab	SE101	0 – 1 – 1
7	FQ101	Fahm-e-Quran II	FQ100	0 – 1 – 1
8	MA110	Calculus & Analytical Geometry	-	3 – 0 – 3
9	MA301	Probability and Statistics	-	3 – 0 – 3
Total Contact Hours: 25			Total Cr. Hr.	13 – 4 – 17


(SALMA SARFRAZ)
 Manager Academics
 Air University, Islamabad


DR. IMRAN IHSAN
 Professor & Chair Department
 Department of Creative Technologies
 FCAI, Air University

Semester – IV				
S. No.	Code	Course Title	Pre-Req.	Cr. Hrs.
1	AI232	Introduction to Artificial Intelligence	-	2 – 0 – 2
2	AI232L	Introduction to Artificial Intelligence Lab	-	0 – 1 – 1
3	CS130	Database Systems	-	3 – 0 – 3
4	CS130L	Database Systems Lab	-	0 – 1 – 1
5	MA105	Multivariable Calculus	MA110	3 – 0 – 3
6	CS332	Design and Analysis of Algorithms	CS216, CS216L	3 – 0 – 3
7	SEXXX	Domain Elective - I	-	2 – 0 – 2
8	SEXXXL	Domain Elective - I Lab	-	0 – 1 – 1
Total Contact Hours: 22			Total Cr. Hr.	13 – 3 – 16

Summer				
S. No.	Code	Course Title	Pre-Req.	Cr. Hrs.
1	SE496	*Internship	-	03
*Internship Requirement: Each student must complete a 6-week internship after the 4th semester, preferably during the summer break. The internship will be evaluated as a 3-credit hour course and included in the transcript. In exceptional cases, students may defer the internship until after the 6th semester with approval from the Head of Department.				

Semester – V				
S. No.	Code	Course Title	Pre-Req.	Cr. Hrs.
1	CS325	Operating Systems	CS226, CS226L	2 – 0 – 2
2	CS325L	Operating Systems Lab	CS226, CS226L	0 – 1 – 1
3	SE216	Software Design & Architecture	SE101	3 – 0 – 3
4	SEXXX	Domain Elective - II	-	2 – 0 – 2
5	SEXXXL	Domain Elective - II Lab	-	0 – 1 – 1
6	SEXXX	Domain Elective - III	-	2 – 0 – 2
7	SEXXXL	Domain Elective - III Lab	-	0 – 1 – 1
8	MA201	Linear Algebra	-	3 – 0 – 3
9	BA152	Introduction to Management	-	2 – 0 – 2
Total Contact Hours: 23			Total Cr. Hr.	14 – 3 – 17

Semester – VI				
S. No.	Code	Course Title	Pre-Req.	Cr. Hrs.
1	CS426	Parallel and Distributed Computing	CS325, CS325L	2 – 0 – 2
2	CS426L	Parallel and Distributed Computing Lab	CS325, CS325L	0 – 1 – 1
3	SE321	Software Construction & Development	SE216	2 – 0 – 2
4	SE321L	Software Construction & Development Lab	SE216	0 – 1 – 1
5	EL271	Expository Writing	EL170	3 – 0 – 3
6	SEXXX	Domain Elective - IV	-	2 – 0 – 2
7	SEXXXL	Domain Elective - IV Lab	-	0 – 1 – 1
8	SEXXX	Domain Elective - V	-	2 – 0 – 2
9	SEXXXL	Domain Elective - V Lab	-	0 – 1 – 1
10	SE497	Final Year Project - I	List-A	0 – 1 – 1
Total Contact Hours: 23 + 3 Hrs. FYP			Total Cr. Hr.	11 – 5 – 16

Salma Sarfraz
22/6/25
SALMA SARFRAZ
Manager Academics
Air University, Islamabad

Dr. Imran Ihsan
DR. IMRAN IHSAN
Professor & Chair Department
Department of Creative Technologies
FCAI-Air University

Semester – VII				
S. No.	Code	Course Title	Pre-Req.	Cr. Hrs.
1	SE498	Final Year Project - II	SE497	0 – 2 – 2
2	SE453	Software Project Management	SE101	2 – 0 – 2
3	SE453L	Software Project Management Lab	SE101	0 – 1 – 1
4	SEXXX	Domain Elective - VI	-	2 – 0 – 2
5	SEXXXL	Domain Elective - VI Lab	-	0 – 1 – 1
6	SE441	Software Quality Engineering	SE200, SE200L	2 – 0 – 2
7	SE441L	Software Quality Engineering Lab	SE200, SE200L	0 – 1 – 1
8	CS215	Information Security	-	2 – 0 – 2
9	CS215L	Information Security Lab	-	0 – 1 – 1
10	EL400	Technical & Business Writing	-	3 – 0 – 3
Total Contact Hours: 21 + 6 Hrs. FYP			Total Cr. Hr.	11 – 6 – 17

Semester – VIII				
S. No.	Code	Course Title	Pre-Req.	Cr. Hrs.
1	SE499	Final Year Project - III	SE498	0 – 3 – 3
2	HU405	Ideology and Constitution of Pakistan	-	2 – 0 – 2
3	CS470	Professional Practices	-	2 – 0 – 2
4	HU411	Civics and Community Engagement	-	2 – 0 – 2
5	SEXXX	Domain Elective - VII	-	2 – 0 – 2
6	SEXXXL	Domain Elective - VII Lab	-	0 – 1 – 1
7	XXXXX	Elective Supporting – I		3 – 0 – 3
8	BA353	Entrepreneurship	-	2 – 0 – 2
Total Contact Hours: 18 + 9 Hrs. FYP			Total Cr. Hr.	13 – 4 – 17

Program Total Credit Hours: 134 (101 – 33) + Internship (03) = 137

List-A: Pre-Requisite Courses for Final Year Project - I				
S. No.	Code	Course Title	Cr. Hrs.	
1	CS111	Programming Fundamentals	3 – 0 – 3	
2	CS111L	Programming Fundamentals Lab	0 – 1 – 1	
3	CS112	Object Oriented Programming	3 – 0 – 3	
4	CS112L	Object Oriented Programming Lab	0 – 1 – 1	
5	CS216	Data Structures	3 – 0 – 3	
6	CS216L	Data Structures Lab	0 – 1 – 1	
7	SE101	Introduction to Software Engineering	3 – 0 – 3	
8	CS130	Database Systems	3 – 0 – 3	
9	CS130L	Database Systems Lab	0 – 1 – 1	

List of Domain Elective Courses

Note: Students are required to complete seven (07) domain elective courses, with at least five (05) selected from the designated list below. Up to two (02) electives may be taken from other departments within the Faculty of Computing and Artificial Intelligence (FCAI), subject to approval by the respective HoDs.

No.	Code	Course Title	Cr. Hr.
Group 01: Software Requirement and Design Analysis			
1	SE213	Object Oriented Analysis and Design	2 – 0 – 2
	SE213L	Object Oriented Analysis and Design Lab	0 – 1 – 1
2	SE214	Human Computer Interaction	2 – 0 – 2
	SE214L	Human Computer Interaction Lab	0 – 1 – 1

Salma Sarfraz
(SALMA SARFRAZ)
 Manager Academics
 Air University, Islamabad

Ali
 22/09/25

DR. IMRAN IHSAN
 Professor & Chair Department
 Department of Creative Technology
 FCAI Air University

3	SE215	UI/UX Design	2-0-2
	SE215L	UI/UX Design Lab	0-1-1
4	SE354	Business Process Engineering	2-0-2
	SE354L	Business Process Engineering Lab	0-1-1
5	SE443	Research Methods	2-0-2
	SE443L	Research Methods Lab	0-1-1
6	SE317	Software Architecture: Design, Analysis, and Patterns	2-0-2
	SE317L	Software Architecture: Design, Analysis, and Patterns Lab	0-1-1
7	SE355	Software Estimation Models and Predictive Analytics	2-0-2
	SE355L	Software Estimation Models and Predictive Analytics Lab	0-1-1
8	SE357	Software Process Modelling and Simulation	2-0-2
	SE357L	Software Process Modelling and Simulation Lab	0-1-1
9	SE445	Empirical Software Engineering	2-0-2
	SE445L	Empirical Software Engineering Lab	0-1-1
10	SE446	Agile Software Development Methods	2-0-2
	SE446L	Agile Software Development Methods Lab	0-1-1
Group 02: Software Design and Development			
11	SE305	Software Re-Engineering	2-0-2
	SE305L	Software Re-Engineering Lab	0-1-1
12	SE311	Database Management Systems	2-0-2
	SE311L	Database Management Systems Lab	0-1-1
13	SE322	Full Stack Programming	2-0-2
	SE322L	Full Stack Programming Lab	0-1-1
14	SE323	Mobile Application Development	2-0-2
	SE323L	Mobile Application Development Lab	0-1-1
15	SE324	Semantic Web	2-0-2
	SE324L	Semantic Web Lab	0-1-1
16	SE325	Computer Graphics	2-0-2
	SE325L	Computer Graphics Lab	0-1-1
17	SE432	Network Programming	2-0-2
	SE432L	Network Programming Lab	0-1-1
18	SE433	Systems Programming	2-0-2
	SE433L	Systems Programming Lab	0-1-1
19	SE434	Unix/Linux Shell Scripting	2-0-2
	SE434L	Unix/Linux Shell Scripting Lab	0-1-1
20	SE442	Software Testing Strategies and Techniques	2-0-2
	SE442L	Software Testing Strategies and Techniques Lab	0-1-1
21	SE451	DevOps Engineering	2-0-2
	SE451L	DevOps Engineering Lab	0-1-1
22	SE459	Software Evolution and Maintenance	2-0-2
	SE459L	Software Evolution and Maintenance Lab	0-1-1
23	SE456	Software Configuration Management	2-0-2
	SE456L	Software Configuration Management Lab	0-1-1
24	SE457	Computer Game Design	2-0-2
	SE457L	Computer Game Design Lab	0-1-1
25	SE307	Agent Oriented Software Engineering	2-0-2

	SE307L	Agent Oriented Software Engineering Lab	0-1-1
26	SE458	Intelligent Software Testing and Continuous Validation	2-0-2
	SE458L	Intelligent Software Testing and Continuous Validation Lab	0-1-1
27	SE320	Usability Testing	2-0-2
	SE320L	Usability Testing Lab	0-1-1
28	SE469	Computational Linguistics	2-0-2
	SE469L	Computational Linguistics Lab	0-1-1
Group 03: Intelligent Systems			
29	SE402	Agent Based Software Engineering	2-0-2
	SE402L	Agent Based Software Engineering Lab	0-1-1
30	SE424	Natural Language Processing	2-0-2
	SE424L	Natural Language Processing Lab	0-1-1
31	SE425	Data Mining	2-0-2
	SE425L	Data Mining Lab	0-1-1
32	SE452	Machine Learning	2-0-2
	SE452L	Machine Learning Lab	0-1-1
33	SE454	Generative AI for Software Engineering Applications	2-0-2
	SE454L	Generative AI for Software Engineering Applications Lab	0-1-1
34	SE455	Engineering Autonomous Systems with Large Language Models	2-0-2
	SE455L	Engineering Autonomous Systems with Large Language Models Lab	0-1-1
35	SE426	Knowledge Graphs	2-0-2
	SE426L	Knowledge Graphs Lab	0-1-1
36	SE427	Graph Analytics for Software Systems	2-0-2
	SE427L	Graph Analytics for Software Systems Lab	0-1-1
37	SE475	Explainable Artificial Intelligence	2-0-2
	SE475L	Explainable Artificial Intelligence Lab	0-1-1
38	SE476	Ubiquitous Computing and Intelligent Systems	2-0-2
	SE476L	Ubiquitous Computing and Intelligent Systems Lab	0-1-1
Group 04: Embedded Software Systems			
39	SE312	Multimedia Communication	2-0-2
	SE312L	Multimedia Communication Lab	0-1-1
40	SE411	Simulation and Visualization	2-0-2
	SE411L	Simulation and Visualization Lab	0-1-1
41	SE326	Mobile and Wireless Systems	2-0-2
	SE326L	Mobile and Wireless Systems Lab	0-1-1
42	SE412	Embedded Software Engineering	2-0-2
	SE412L	Embedded Software Engineering Lab	0-1-1
43	SE414	IoT for Software Engineering	2-0-2
	SE414L	IoT for Software Engineering Lab	0-1-1
Group 05: Quantum Computing			
44	SE327	Quantum Programming in Software Engineering	2-0-2
	SE327L	Quantum Programming in Software Engineering Lab	0-1-1
45	SE419	Security in Quantum Computing	2-0-2
	SE419L	Security in Quantum Computing Lab	0-1-1
46	SE482	Fault Tolerant Quantum Computing	2-0-2
	SE482L	Fault Tolerant Quantum Computing Lab	0-1-1

Salma Sarfraz
 (SALMA SARFRAZ)
 Manager Academics
 Air University

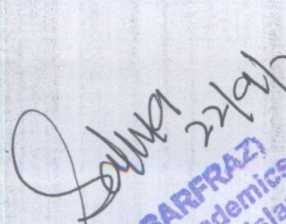
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 DR. IHSAN IHSAN
 Professor & Chair Department of Creative Technologies
 FCAI, Air University

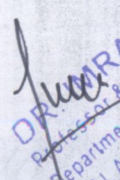
Group 06: Cloud Computing and Information Security			
47	SE306	Formal Methods in Software Engineering	2-0-2
	SE306L	Formal Methods in Software Engineering Lab	0-1-1
48	SE308	Reliability Engineering	2-0-2
	SE308L	Reliability Engineering Lab	0-1-1
49	SE344	Software Risk Management	2-0-2
	SE344L	Software Risk Management Lab	0-1-1
50	SE345	Software Measurement & Metrics	2-0-2
	SE345L	Software Measurement & Metrics Lab	0-1-1
51	SE346	Stochastic Processes	2-0-2
	SE346L	Stochastic Processes Lab	0-1-1
52	SE403	Software Engineering Economics	2-0-2
	SE403L	Software Engineering Economics Lab	0-1-1
53	SE444	Operations Research	2-0-2
	SE444L	Operations Research Lab	0-1-1
54	SE450	Secure Software Engineering	2-0-2
	SE450L	Secure Software Engineering Lab	0-1-1
55	SE330	Cloud Platforms and Architecture	2-0-2
	SE330L	Cloud Platforms and Architecture Lab	0-1-1

List of Elective Supporting Courses				
S. No.	Code	Course Title	Pre-Req.	Cr. Hrs.
1	MK101	Principles of Marketing	-	3-0-3
2	AF142	Financial Accounting	-	3-0-3

List of General Education Courses				
S. No.	Code	Course Title	Pre-Req.	Cr. Hrs.
1	CS181	Application of Information & Communication Technologies	-	2-0-2
	CS181L	Application of Information & Communication Technologies Lab	-	0-1-1
2	EL170	Functional English	-	3-0-3
3	EL271	Expository Writing	EL170	3-0-3
4	MA216	Discrete Structures	-	3-0-3
5	MA110	Calculus & Analytical Geometry	-	3-0-3
6	HU124	Islamic Studies & Ethics	-	2-0-2
7	HU405	Ideology and Constitution of Pakistan	-	2-0-2
8	BA152	Introduction to Management	-	2-0-2
9	PH111	Applied Physics	-	2-0-2
	PH111L	Applied Physics Lab	-	0-1-1
10	CS470	Professional Practices	-	2-0-2
11	HU411	Civics and Community Engagement	-	2-0-2
12	BA353	Entrepreneurship	-	2-0-2
13	HU115	Pakistan Studies	-	2-0-2
14	FQ100	Fehm-e-Quran I	-	0-1-1
15	FQ101	Fehm-e-Quran II	-	0-1-1


 22/09/25
(SALMA SARFRAZ)
 Manager Academics
 Air University, Islamabad

22/09/25


DR. IHSAN
 Professor & Chair Department
 Department of Creative Technology
 FCAI, Air University