

COMSATS University Islamabad, Wah Campus					
Department of Computer Science					
Offered Courses for Undergraduate Programs in Fall 2025					
<b>Note 1: All CS students who want to repeat the course, are advised to register your courses with your program. (For Example: BCS students should register repeat courses with BCS classes/sections only &amp; BSE student with BSE)</b>					
<b>Note 2: Sections for Repeaters / Failed Courses are at the last page</b>					

Sr. No.	Session	Code	Course	Credit Hours	Pre-req
<b>BCS-1</b>					
1	FA-25	CSC101	Applications of Information and Communication Technology	3(2, 1)	-
2	FA-25	CSC103	Programming Fundamentals	4(3, 1)	-
3	FA-25	HUM112	Islamic Studies/Ethics	2(2, 0)	-
4	FA-25	HUM130	Fundamentals of Sociology	2(2, 0)	-
5	FA-25	HUM104	Functional English	3(3, 0)	-
6	FA-25	HUM208	Civics and Community Engagement	2(2, 0)	-
7	SP-24	MTH091	Pre-Calculus I* (Only for Pre-Medical Students)	3(3, 0)	-

<b>BCS-2</b>					
1	SP-25	CSC102	Discrete Structures	3(3, 0)	-
2	SP-25	CSC241	Object Oriented Programming	4(3, 1)	CSC103
3	SP-25	HUM120	Expository Writing	3(3, 0)	-
4	SP-25	HUM121	Technical and Business Writing	3(3, 0)	-
5	SP-25	PHY124	Applied Physics	3(2, 1)	-
6	FA-23	MTH092	Pre-Calculus II* (Only for pre-Medical Students)	3(3, 0)	-

<b>BCS-3</b>					
1	FA-24	CSC270	Database Systems	4(3, 1)	-
2	FA-24	CSC241	Object Oriented Programming	4(3, 1)	CSC103
3	FA-24	CSC275	Computer Networks	3(2, 1)	-
4	FA-24	CSC291	Software Engineering	3(3, 0)	-
5	FA-24	MTH104	Calculus and Analytic Geometry	3(3, 0)	MTH091, MTH092 (Both courses are mandatory to pass for Pre-Medical students)

\* In case Pre-medical student register any Math course without passing both Cal-I & Cal-II. The student will be responsible for this, in future.

<b>BCS-4</b>					
1	SP-24	CSC211	Data Structures	4(3, 1)	CSC103
2	SP-24	CSC323	Operating Systems	3(2, 1)	-
3	SP-24	HUM208	Civics and Community Engagement	2(2, 0)	-
4	SP-24	CSC210	Professional Practices	2(2, 0)	-
5	SP-24	CSC262	Artificial Intelligence	3(2, 1)	-
6	SP-24	CSC232	Information Security	3(2, 1)	-

BCS-5					
1	FA-23	CSC325	Computer Organization and Assembly Language	3(2, 1)	EEE240
2	FA-23	MTH262	Statistics and Probability Theory	3(3, 0)	-
3	FA-23	CSC301	Design and Analysis of Algorithms	3(3, 0)	CSC211
4	FA-23	MTH105	Multivariable Calculus	3(3, 0)	MTH104
5	FA-23	CSC303	Mobile Application Development	3(2, 1)	CSC241
6	FA-23	CSC336	Web Technologies	3(2, 1)	CSC241

BCS-6					
1	SP-23	CSC312	Theory of Automata	3(3, 0)	CSC102
2	SP-23	CSC301	Design and Analysis of Algorithms	3(3, 0)	CSC211
3	SP-23	CSC334	Parallel and Distributed Computing	3(2, 1)	CSC323
4	SP-23	CSC432	Information Security	3(3, 0)	
5	SP-23	CSC455	Computer Vision ( For Section A Only )	3(3, 0)	
6	SP-23	CSC354	Machine Learning ( For Section A Only )	3(3, 0)	
5	SP-23	CSC303	Mobile Application Development ( For Section C Only )	3(2, 1)	CSC241
6	SP-23	CSC336	Web Technologies ( For Section C Only )	3(2, 1)	CSC241
5	SP-23	CSC350	Topics in Computer Science I ( For Section D Only )	3(3, 0)	
6	SP-23	CSC461	Introduction to Data Science ( For Section D Only )	3(3, 0)	MTH262

BCS-7					
1	FA-22	CSC441	Compiler Construction	3(2, 1)	CSC312
2	FA-22	CSC462	Artificial Intelligence	3(2, 1)	CSC102
3	FA-22	MTH375	Numerical Computations	3(2, 1)	MTH231
4	FA-22	CSC498	Senior Design Project I	2(0, 2)	CSC270, CSC291, HUM102, CSC241
5	FA-22	CSC454	Pattern Recognition ( For Section A Only )	3(3, 0)	CSC354
5	FA-22	CSC337	Advanced Web Technologies ( For Section C Only )	3(2, 1)	CSC336
5	FA-22	CSC372	Exploratory Data Analysis & Visualization ( For Section D Only )	3(3, 0)	

BCS-8					
1	SP-22	MGT350	Human Resource Management	3(3, 0)	
2	SP-22	HUM434	Chinese	3(3, 0)	
3	SP-22	CSC499	Senior Design Project II	4(0, 4)	CSC498
4	SP-22	CSC350	Topics in Computer Science I ( For Section A Only )	3(3, 0)	
4	SP-22	CSC418	DevOps for Cloud Computing ( For Section C Only )	3(2, 1)	
4	SP-22	CSC483	Topics in Computer Science II ( For Section D Only )	3(3, 0)	

BSE-1					
1	FA-25	CSC101	Applications of Information and Communication Technology	3(2, 1)	-
2	FA-25	CSC103	Programming Fundamentals	4(3, 1)	-
3	FA-25	HUM112	Islamic Studies/Ethics	2(2, 0)	-
4	FA-25	HUM130	Fundamentals of Sociology	2(2, 0)	-
5	FA-25	HUM104	Functional English	3(3, 0)	-
6	FA-25	HUM208	Civics and Community Engagement	2(2, 0)	-
7	SP-24	MTH091	Pre-Calculus I* ( Only for Pre-Medical Students )	3(3, 0)	-

BSE-2					
1	SP-25	CSC102	Discrete Structures	3(3, 0)	-
2	SP-25	CSC241	Object Oriented Programming	4(3, 1)	CSC103
3	SP-25	HUM120	Expository Writing	3(3, 0)	-
4	SP-25	HUM121	Technical and Business Writing	3(3, 0)	-
5	SP-25	PHY124	Applied Physics	3(2, 1)	-
6	FA-23	MTH092	Pre-Calculus II* ( Only for Pre-Medical Students )	3(3, 0)	

BSE-3					
1	FA-24	CSC270	Database Systems	4(3, 1)	-
2	FA-24	CSC241	Object Oriented Programming	4(3, 1)	CSC103
3	FA-24	CSC275	Computer Networks	3(2, 1)	-
4	FA-24	CSC291	Software Engineering	3(3, 0)	-
5	SP-23	MTH104	Calculus and Analytic Geometry	3(3, 0)	<b>MTH091,MTH092 (Both courses are mandatory to pass for Pre-Medical Students )</b>

\* In case Pre-medical student register any Math course without passing both Cal-I & Cal-II. The student will be responsible for this, in future.

BSE-4					
1	SP-24	CSC211	Data Structures	4(3, 1)	CSC103
2	SP-24	CSE305	Software Requirement Engineering	3(3, 0)	CSC291
3	SP-24	HUM208	Civics and Community Engagement	2(2, 0)	-
4	SP-24	CSC210	Arts & Humanities (e.g., Professional Practices)	2(2, 0)	-
5	SP-24	CSC262	Artificial Intelligence	3(2, 1)	-
6	SP-24	CSC232	Information Security	3(2, 1)	-

<b>BSE-5</b>					
1	FA-23	CSC325	Computer Organization and Assembly Language	3(2, 1)	EEE240
2	FA-23	CSE303	Software Design and Architecture	3(3, 0)	CSC291
3	FA-23	CSC323	Operating Systems	3(2, 1)	-
4	FA-23	MTH105	Multivariable Calculus	3(3, 0)	MTH104
5	FA-23	CSC336	Web Technologies	3(2, 1)	CSC241
6	FA-23	CSC303	Mobile Application Development	3(2, 1)	CSC241

<b>BSE-6</b>					
1	SP-23	CSE302	Software Quality Engineering	3(3, 0)	CSC291
2	SP-23	CSC410	Professional Practices	3(3, 0)	
3	SP-23	CSC336	Web Technologies	3(2, 1)	CSC241
4	SP-23	CSC432	Information Security	3(3, 0)	
5	SP-23	CSC462	Artificial Intelligence	4(3, 1)	CSC102
6	SP-23	CSC303	Mobile Application Development	3(2, 1)	CSC241

<b>BSE-7</b>					
1	FA-22	CSE327	Software Re-Engineering	3(3, 0)	
2	FA-22	CSE494	Software Project Management	3(3, 0)	CSC291
3	FA-22	CSE498	Senior Design Project I	2(0, 2)	CSC270, CSC291, HUM102, CSC241
4	FA-22	CSE357	Business Process Engineering	3(3, 0)	
5	FA-22	MTH467	Operations Research	3(3, 0)	
6	FA-22	CSC461	Introduction to Data Science	3(3,0)	MTH262

<b>BSE-8</b>					
1	SP-22	CSE499	Senior Design Project II	4(0, 4)	CSE498
2	SP-22	CSC482	Automated Software Testing	3(2, 1)	
3	SP-22	HUM434	Chinese	3(3, 0)	
4	SP-22	CSC418	DevOps for Cloud Computing	3(2, 1)	

BAI-1					
1	FA-25	CSC101	Applications of Information and Communication Technology	3(2, 1)	-
2	FA-25	CSC103	Programming Fundamentals	4(3, 1)	-
3	FA-25	HUM112	Islamic Studies/Ethics	2(2, 0)	-
4	FA-25	HUM130	Fundamentals of Sociology	2(2, 0)	-
5	FA-25	HUM104	Functional English	3(3, 0)	-
6	FA-25	HUM208	Civics and Community Engagement	2(2, 0)	-
7	FA-25	MTH091	Pre-Calculus I* ( Only for Pre-Medical Students)	3(3, 0)	-

BAI-3					
1	FA-24	CSC270	Database Systems	4(3, 1)	-
2	FA-24	CSC241	Object Oriented Programming	4(3, 1)	CSC103
3	FA-24	CSC275	Computer Networks	3(2, 1)	-
4	FA-24	CSC291	Software Engineering	3(3, 0)	-
5	SP-23	MTH104	Calculus and Analytic Geometry	3(3, 0)	MTH091,MTH092 (Both courses are mandatory to pass for Pre-Medical Students )

\* In case Pre-medical student register any Math course without passing both Cal-I & Cal-II. The student will be responsible for this, in future.

BAI-5					
1	FA-23	CSC325	Computer Organization and Assembly Language	3(2, 1)	EEE240
2	FA-23	AIC270	Programming for Artificial Intelligence	3(2, 1)	CSC262
3	FA-23	AIC372	Knowledge Representation and Reasoning	3(3, 0)	CSC262
4	FA-23	MTH105	Multivariable Calculus	3(3, 0)	MTH104
5	FA-23	CSC303	Mobile Application Development	3(2, 1)	CSC241
6	FA-23	CSC336	Web Technologies	3(2, 1)	CSC241

Separate Sections for Repeater/Failure Students					
Sr. No.	Session	Code	Course	Credit Hours	Remarks
1	Repeaters	EEE240	Fundamentals of Digital Logic Design	3(2, 1)	Repeater students are not allowed to study with regular section(s)
2	Repeaters	CSC103	Programming Fundamentals	4(3, 1)	
3	Repeaters	CSC211	Data Structures / and Algorithms	4(3, 1)	