	Semester Wise 4	-Year	r Plan B	CS(AI)	
Codes	Semester 1	СН	Codes	Semester 2	СН
CV-301	Islamic Studies	2-0	QR-321	Calculus and Analytical Geometry	3-0
SS-306	GE-Social Sciences-I (Introduction to	3-0	CV-302	Pak Studies	2-
	Management)				0
CAI-311	Information and Communication Technologies	3-0	CAI-321	Programming fundamentals	3-0
NS-303	GE-Natural Science-I (Applied Physics)	3-0	AH-321	GE-Arts and Humanities-I (Professional Practices)	3-0
EW-301	GE-Expository Writing-I	3-0	EW-302	GE-Expository Writing-II	3-0
MATH-	Linear Algebra	3-0	CAI-321L	Programming fundamental Lab	1-0
311	Total Credit Hours	17		Total Credit Hours	15
Codes	Semester 3	CH	Codes	Semester4	СН
CAI-411	Object Oriented Programming	3-0	CAI-421	Research Methods	3-0
SS-303	GE-Social Sciences-II (Psychology)	3-0	CAI-422	Operating Systems	2-0
AH-305	GE-Arts and Humanities-II (Islamic History)	3-0	CAI-423	Data Structure	3-0
CAI-412	Computer Networks	2-0	NS-421	GE-Natural Science-II	3-0
EW-303	GE-Expository Writing-III	3-0	CAI-424	Database System	2-0
CAI-411L	Object Oriented Programming Lab	1-0	CAI-424L	Database Systems Lab	1-0
CAI-412L	,	1-0	CAI-422L	Operating Systems Lab	1-0
MATH-	Probability and Statistics		0.11 1222	Operating bystems had	10
411	Troomonity and sometimes	3			
	Total Credit Hours	19		Total Credit Hours	15
Codes	Semester 5	СН	Codes	Semester 6	СН
CAI-513	Introduction to Software Engineering	3-0	CAI-526	Theory of Automata	3-0
CAI-512	Digital Logic Design	2-0	CAI-527	Knowledge Representation and Reasoning	3
CAI-523	Artificial Intelligence	3-0	CAI-527	Programming for Artificial Intelligence	2
CAI-514	Design and Analysis of Algorithms	3-0	CAI-525	Artificial Neural Network (ANN)	3
CAI-515	Discrete Structures	3-0	CAI-521	Minor (Web Application Development)	2-0
CAI-522	Computer Organization and Assembly Language	2-0	CAI- 521L	Minor (Web Application Development) Lab	1-0
	, , , , ,		1		
CAI-522L	Computer Organization and Assembly Language Lab	1-0	CAI- 527L	Programming for Artificial Intelligence Lab	1-0
CAI-522L CAI-512L	Computer Organization and Assembly Language Lab	1-0			1-0
	Computer Organization and Assembly Language Lab				1-0
	Computer Organization and Assembly Language Lab Digital Logic Design Lab	1-0		Lab	
CAI-512L	Computer Organization and Assembly Language Lab Digital Logic Design Lab Total Credit Hours	1-0 18	527L	Lab Total Credit Hours	15
CAI-512L Codes	Computer Organization and Assembly Language Lab Digital Logic Design Lab Total Credit Hours Semester 7	1-0 18 CH	527L Codes	Total Credit Hours Semester 8	15 CH
CAI-512L Codes CAI-612	Computer Organization and Assembly Language Lab Digital Logic Design Lab Total Credit Hours Semester 7 Digital Image Processing	1-0 18 CH 3-0	Codes CAI-623	Total Credit Hours Semester 8 Natural Language Processing Minor IV (Mobile Application	15 CH 3-0
CAI-512L Codes CAI-612 CAI-613	Computer Organization and Assembly Language Lab Digital Logic Design Lab Total Credit Hours Semester 7 Digital Image Processing Computer Vision	1-0 18 CH 3-0 2-0	Codes CAI-623 CAI-622	Total Credit Hours Semester 8 Natural Language Processing Minor IV (Mobile Application Development) Information Security Parallel and Distributed System	15 CH 3-0 2-0
CAI-512L Codes CAI-612 CAI-613 CAI-614	Computer Organization and Assembly Language Lab Digital Logic Design Lab Total Credit Hours Semester 7 Digital Image Processing Computer Vision Machine Learning	1-0 18 CH 3-0 2-0	Codes CAI-623 CAI-622 CAI-624	Total Credit Hours Semester 8 Natural Language Processing Minor IV (Mobile Application Development) Information Security	15 CH 3-0 2-0 3-0
CAI-512L Codes CAI-612 CAI-613 CAI-614 CAI-617	Computer Organization and Assembly Language Lab Digital Logic Design Lab Total Credit Hours Semester 7 Digital Image Processing Computer Vision Machine Learning Minor III (Advanced Statistics)	1-0 18 CH 3-0 2-0 2-0 3-0 1-0	Codes CAI-623 CAI-622 CAI-624 CAI-625	Total Credit Hours Semester 8 Natural Language Processing Minor IV (Mobile Application Development) Information Security Parallel and Distributed System Minor III (Mobile Application	15 CH 3-0 2-0 3-0 3-0
CAI-512L Codes CAI-612 CAI-613 CAI-614 CAI-617 CAI-613L	Computer Organization and Assembly Language Lab Digital Logic Design Lab Total Credit Hours Semester 7 Digital Image Processing Computer Vision Machine Learning Minor III (Advanced Statistics) Computer Vision Lab	1-0 18 CH 3-0 2-0 2-0 3-0 1-0	Codes CAI-623 CAI-622 CAI-624 CAI-625 CAI-622L	Total Credit Hours Semester 8 Natural Language Processing Minor IV (Mobile Application Development) Information Security Parallel and Distributed System Minor III (Mobile Application Development Lab)	15 CH 3-0 2-0 3-0 3-0 1-0
CAI-512L Codes CAI-612 CAI-613 CAI-614 CAI-617 CAI-613L CAI-614L	Computer Organization and Assembly Language Lab Digital Logic Design Lab Total Credit Hours Semester 7 Digital Image Processing Computer Vision Machine Learning Minor III (Advanced Statistics) Computer Vision Lab Machine Learning Lab Multivariable Calculus	1-0 18 CH 3-0 2-0 2-0 3-0 1-0	Codes CAI-623 CAI-622 CAI-624 CAI-625 CAI-622L	Total Credit Hours Semester 8 Natural Language Processing Minor IV (Mobile Application Development) Information Security Parallel and Distributed System Minor III (Mobile Application Development Lab)	15 CH 3-0 2-0 3-0 3-0 1-0
CAI-512L Codes CAI-612 CAI-613 CAI-614 CAI-613L CAI-614L Math-611	Computer Organization and Assembly Language Lab Digital Logic Design Lab Total Credit Hours Semester 7 Digital Image Processing Computer Vision Machine Learning Minor III (Advanced Statistics) Computer Vision Lab Machine Learning Lab	1-0 18 CH 3-0 2-0 3-0 1-0 1-0 3-0	Codes CAI-623 CAI-622 CAI-624 CAI-625 CAI-622L	Total Credit Hours Semester 8 Natural Language Processing Minor IV (Mobile Application Development) Information Security Parallel and Distributed System Minor III (Mobile Application Development Lab)	15 CH 3-0 2-0 3-0 3-0 1-0