

CS Flight Plan [ABET Requirement] - Faculty of Information Technology - Isra University 2025-2026

1. Faculty Requirements (21 Credits)

Course Code	Course Name	Pre-requist	Credit Hrs.	Category	Math Cr.	CS Cr.	Sci Cr.	S01	S02	S03	S04	S05	S06
11021107	General Physics	-	3	Science	0	0	3	✓					
11031105	General Mathematics	-	3	Math & Statistics	3	0	0	✓					
6051112	English for IT Students	-	3	Support (Communication)	0	0	0			✓			
6051200	Discrete Mathematics	-	3	Math & Statistics	3	0	0	✓					✓
6051220	Logic Design	11021107	3	Computer Science	0	3	0	✓	✓				✓
6051211	Programming Fundamentals	-	3	Computer Science	0	3	0		✓				✓
6052102	Data Structures	6051211	3	Computer Science	0	3	0	✓	✓				✓
Total Hrs.					6	9	3						

2. Supportive Requirements (12 Credits)

Course Code	Course Name	Pre-requist	Credit Hrs.	Category	Math Cr.	CS Cr.	Sci Cr.	S01	S02	S03	S04	S05	S06
11031141	Statistics and Probabilities	11031105	3	Math & Statistics	3	0	0	✓					✓
6052253	Numeric Analysis	11031105	3	Math & Statistics	3	0	0	✓					
11021202	Physics (2)	11021107	3	Science	0	0	3	✓					
11011101	General Chemistry 1	-	3	Science	0	0	3	✓					
Total Hrs.					6	0	6						

3. Department Compulsory "66 Credit Hrs." [Core CS with Math Split]

Course Code	Course Name	Pre-requist	Credit Hrs.	Category	Math Cr.	CS Cr.	Sci Cr.	S01	S02	S03	S04	S05	S06
6052232	Info. Systems Analysis & Design	6052112	3	Computer Science	0	3	0	✓	✓	✓			
6052201	Algorithms	6051211	3	Mostly CS, partly Math	1	2	0	✓					✓
6052112	Object-Oriented Techniques	60521020	3	Computer Science	0	3	0		✓				
6052122	Computer Architecture	6051220	3	Computer Science	0	3	0	✓					✓
6053113	Visual Programming	6052112	3	Computer Science	0	3	0		✓				✓
6053214	Website Design (1)	6052112	3	Computer Science	0	3	0		✓	✓			✓
6014115	Website Design (2)	6053214	3	Computer Science	0	3	0		✓	✓			✓
6053130	Databases	60522010	3	Mostly CS, partly Math	1	2	0	✓	✓				✓
6053223	Operating Systems	60521220	3	Computer Science	0	3	0	✓	✓				✓
6052221	Computer Design and Organization	6052122	3	Computer Science	0	3	0	✓					✓
6032250	Basics of Software Engineering	6052112	3	Computer Science	0	3	0		✓	✓		✓	
6052153	Computation Theory	6051200	3	Strongly Math & CS	2	1	0	✓					✓
6013175	Modeling and Simulation	11031141	3	Strongly Math & CS	2	1	0	✓	✓				
6013175	Smart Phone Programming	6053113	3	Computer Science	0	3	0		✓				✓
60643150	Information Security	11031105	3	Computer Science	0	3	0	✓			✓		✓
6013176	Artificial Intelligence	6052201	3	Mostly CS, partly Math	1	2	0	✓	✓				✓
6054158	Compiler Design	6052153	3	Computer Science	0	3	0	✓	✓				✓
6052157	Computer Graphics	60512110	3	Mostly CS, partly Math	1	2	0		✓				✓
6043162	Programming Networks and Servers	6052140	3	Computer Science	0	3	0	✓	✓				✓
6052140	Computer Networks	60512200	3	Computer Science	0	3	0	✓	✓				✓
6054190	Practical Training	Pass 90 Credit Hrs.	3	Computer Science	0	3	0	✓		✓	✓	✓	
6054191	Graduation Project - CS	Pass 90 Credit Hrs.	3	Computer Science	0	3	0	✓	✓	✓	✓	✓	✓
Total Hrs.					8	58	0						

4. Selective Requirements [Student Selects (9) Credit Hours]

Course Code	Course Name	Pre-requist	Credit Hrs.	Category	Math Cr.	CS Cr.	Sci Cr.	S01	S02	S03	S04	S05	S06
6013231	Database Systems Management	6053130	3	Computer Science (Info Management) + optimization, relational algebra	1	2	0	✓	✓				✓
6014254	Information Retrieval Systems	6053130	3	Computer Science and probability models	1	2	0	✓	✓				✓
6033274	Human Compute Interaction	6053113	3	Computer Science (HCI)	0	3	0		✓	✓		✓	
6043273	Advanced Programming	6053113	3	Computer Science	0	3	0		✓				✓
6033172	Programming Mathematics	6052112	3	Computer Science with strong Math content	1	2	0	✓	✓				✓
6053273	Expert Systems	6013176	3	Computer Science (AI-related)	1	2	0	✓	✓				✓
60532590	Image Processing	6052253	3	Computer Science (Graphics/Signal)	1	2	0	✓	✓				✓
6083141	Wireless Networks	6052140	3	Computer Science (Networks)	0	3	0	✓	✓				✓
6034259	Software Projects Management	6032250	3	Computer Science (Management/Process)	0	3	0		✓	✓	✓	✓	
6014171	Selected Topics (1)	Department Approval	3	Computer Science	0	3	0	✓	✓				✓
6054272	Selected Topics (2)	Department Approval	3	Computer Science	0	3	0						
Total Hrs.					5	28	0						