- **Year 2 – Sem 2 – CoC general:**

Course Code	Course Name	Credits	Requisite	Requisite Type
CS 182	Computer Programming III	3	CS181	Pre-requisite
COE121	Logic Design	3	CSC111 COE122	Pre-requisite Co-requisite
COE122	Logic Design Lab	1	COE121	Co-requisite
MATH116	Linear Algebra and Multi-Variable Calculus	3	MATH115	Pre-requisite
IT 131	Database	3	CSC111	Pre-requisite
IC 101	Introduction to Islamic Culture	2	-	-
ARAB103	Arabic Writing	2	-	-
Term Total Credit		17		
Program Total Credit		**66**		

كلية الحاسب – علوم الحاسب:

- **Year 3 – Sem 1 – CS department:**

Course Code	Course Name	Credits	Contact hours		Requisite	Requisite Type
			Theoretical	Practical		
CS 211	Concepts of Algorithms	3	3	-	CS 181	Pre-requisite
CS 213	Programming Languages Concepts	3	3	-	CS 182	Pre-requisite
MATH212	Discrete Mathematics	3	3	-	MATH116	Pre-requisite
	CoC Elective I	3	3			
COE223	Computer Organization	3	3	-	COE121	Pre-requisite
IC 102	Islam and Community Building	2	2	-	IC 101	Pre-requisite
Term Total Credit		17				
Program Total Credit		**83**				

- **Year 3 – Sem 2 – CS department:**

Course Code	Course Name	Credits	Contact hours		Requisite	Requisite Type
			Theoretical	Practical		
CS 214	Data Structures	3	2	2	MATH212	Pre-requisite
CS 221	Assembly Language	3	2	2	COE223	Pre-requisite
CS 222	Operating Systems	3	2	2	CS 182	Pre-requisite
CS 224	Compiler Design	3	3	-	CS213	-
	Free Hours I	3	3	-	-	-
IC 103	Economic System in Islam	2	2	-	IC 101	Pre-requisite
Term Total Credit		17				
Program Total Credit		**100**				

- **Year 4 – Sem 1 – CS department:**

Course Code	Course Name	Credits	Contact hours		Requisite	Requisite Type
			Theoretical	Practical		
CS 315	Algorithms Analysis & Design	3	3	-	CS 211	Pre-requisite
CS 341	Computer Graphics	3	2	2	CS 182	Pre-requisite
CS 342	Visual Programming	3	2	2	CS 182	Pre-requisite
CS 383	Software Engineering	3	3		CS 222	Pre-requisite
MATH317	Numerical Methods	3	3		MATH116	Pre-requisite
MATH 329	Operation Research	3	3	-	MATH116	Pre-requisite
Term Total Credit		18				
Program Total Credit		118				

- **Year 4 – Sem 2 – CS department:**

Course Code	Course Name	Credits	Contact hours		Requisite	Requisite Type
			Theoretical	Practical		
CS 348	Optimization techniques	3	3	-	MATH 329	Pre-requisite
	CS Elective I	3	3	-	-	-
	Free Hours II	3	3		-	-
COE351	Computer Networks	3	3	-	CS 222 COE352	Pre-requisite Co-requisite
COE352	Computer Networks Lab	1	-	2	COE351	Co-requisite
MATH 314	Advanced Discrete Math	3	3		MATH 212	Pre-requisite
IT 362	Communication Skills & Ethics issues	2	2	-	-	-
Term Total Credit		18				
Program Total Credit		136				

- **Year 5 – Sem 1 – CS department:**

Course Code	Course Name	Credits	Contact hours		Requisite	Requisite Type
			Theoretical	Practical		
CS 423	Systems Programming	٣	2	2	CS224	Pre-requisite
CS 451	Introduction to Computer Security	3	3	-	CS 315	Pre-requisite
CS 497	Summer Training	1	-	2	120 C.H.	Pre-requisite
	CoC Elective II	3	3	-		
CS 498	Graduation Project I	2	2	-	120 C.H.	Pre-requisite
Term Total Credit		12				
Program Total Credit		148				

- **Year 5 – Sem 2 – CS department:**

Course Code	Course Name	Credits	Contact hours		Requisite	Requisite Type
			Theoretical	Practical		
CS 432	Artificial Intelligence	٣	2	2	MATH 329	Pre-requisite
CS 471	Web Technologies	3	2	2	CS 342	Pre-requisite
	CS Elective II	3	3	-		
CS 499	Graduation Project II	٣	3		CS 498	Pre-requisite
IC 104	Political System in Islam	2	3	-	IC 101	Pre-requisite
Term Total Credit		14				
Program Total Credit		**162**				