Recommened Study Plan for Bachelor's Degree in Computer Engineering for year 2021-2022

First Year

First Semester			Second Semester		
Course No.	**Course Title**	**Cr. Hrs.**	**Course No.**	**Course Title**	**Cr. Hrs.**
20132	Calculus (1)	3	11103	Structured Programming	3
20140	Basic Concepts in Chemistry	1	11151	Structured Programming Lab	1
20141	Physics (1)	3	20133	Calculus (2)	3
31122	English Language Communication Skills	3	20134	Discrete Mathematics (1)	3
31151	National Education	3	20142	Physics (2)	3
31160	Leadership and Societal Responsibility	0	20150	Physics Lab	1
	Total	**13**	31112	Arabic Language Communication Skills	3
				Total	**17**

Second Year

First Semester			Second Semester		
Course No.	**Course Title**	**Cr. Hrs.**	**Course No.**	**Course Title**	**Cr. Hrs.**
11206	Object Oriented Programming	3	11212	Data Structures and Introduction to Algorithms	3
11253	Object Oriented Programming Lab	1	20234	Linear Algebra	3
20200	Technical Writing and Communication Skills	3	21219	Engineering Workshop	1
20231	Calculus (3)	3	21222	Electric Circuits (2)	3
20232	Engineering Mathematics(1)	3	21229	Electric Circuits Lab	1
21218	Engineering Drawing Lab	1	21231	Electronics (1)	3
21221	Electric Circuits (1)	3	22241	Digital Logic Design	3
	Total	**17**		**Total**	**17**

Third Year

First Semester			Second Semester		
Course No.	**Course Title**	**Cr. Hrs.**	**Course No.**	**Course Title**	**Cr. Hrs.**
22320	Computer Architecture (1)	3	20335	Applied Probability and Statistics	3
22348	Digital Logic Lab	1	21332	Digital Electronics	3
23351	Signals and Systems	3	21339	Digital Electronics Lab	1
23356	Programming Applications in Signals & Systems Lab	1	22321	Computer Architecture (2)	3
25330	Information Security Fundamentals	3	22344	Microprocessors	3
31251	Military Science	3	23355	Communication Principles	3
	Elective University Requirements	3		**Total**	**16**
	Total	**17**			

Fourth Year

First Semester			Second Semester		
Course No.	**Course Title**	**Cr. Hrs.**	**Course No.**	**Course Title**	**Cr. Hrs.**
20333	Numerical Analysis	3	11323	Database Systems	3
22420	Computer Design Lab	1	22448	Embedded Systems Lab	1
22442	Embedded Systems	3	22449	Computer Networks Lab	1
22443	Computer Networks	3	23411	Engineering Economics	3
22460	Operating Systems and Security	3	24411	Engineering Ethics	1
22461	Operating Systems and Security Lab	1	24471	Automatic Control	3
	Total	**14**	24479	Automatic Control Lab	1
				Elective University Requirements	3
				Total	**16**

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Fifth Year						
First Semester				Second Semester		
Course No.	Course Title	Cr. Hrs.		Course No.	Course Title	Cr. Hrs.
11313	Algorithms Design and Analysis	3		22570	Artificial Intelligence and Machine Learning	3
22560	Network Programming and Applications	3		22592	Senior Project (2)	2
22591	Senior Project (1)	1		31374	Life Skills	3
31254	Entrepreneurship and Innovation	3			Elective University Requirements	3
	Elective Program Requirements	6			Elective Program Requirements	3
	Total	16			Total	14