

Computer Science Pathway - Recommended Study Plan				
First Year				
Semester	Modules	Title	Credit Hours	Prerequisite
<b>1<sup>st</sup> (13 CHs)</b>	EL111	English Communication Skills I	3	EL099
	GR118	Life Skills and Coexistence	3	-
	GT101	Computing Essentials	3	-
	MST129	Applied Calculus	4	EL099
<b>2<sup>nd</sup> (14 CHs)</b>	AR113	Arabic Communication Skills	3	-
	EL112	English Communication Skills II	3	EL111
	MT131	Discrete Mathematics	4	EL111
	MT132	Linear Algebra	4	EL111
Second Year				
Semester	Modules	Title	Credit Hours	Prerequisite
<b>1<sup>st</sup> (14 CHs)</b>	GB102	Principles of Entrepreneurship for Non-Specialists	3	-
	M110	Python Programming	8	EL111
		A module from University Requirement/Elective	3	-
<b>2<sup>nd</sup> (19 CHs)</b>	TM112	Introduction to Computing and Information Technology	8	M110
	TM105	Introduction to Programming	4	EL111
	TM103	Computer Organization and Architecture	4	EL111
		Faculty Elective	3	
Third Year				
Semester	Modules	Title	Credit Hours	Prerequisite
<b>1<sup>st</sup> (16 CHs)</b>	M251	Object-Oriented Programming using Java	8	TM105
	TT284	Web Technologies	8	TM112
<b>2<sup>nd</sup> (20 CHs)</b>	M269	Algorithms, Data Structures and Computability	8	M110 & MT131
	TM298	Operating Systems	4	TM105 & TM103
	TM240	Computer Graphics and Multimedia	4	MT132 & TM105
	TM260	Ethics, Law and the Governance in IT	4	TT284
Fourth Year				
Semester	Modules	Title	Credit Hours	Prerequisite
<b>1<sup>st</sup> (20 CHs)</b>	TM351	Data Management and Analysis	8	M269 or M251
	TM354	Software Engineering	8	M251
	TM471A	Graduation Project-A	4	TM354 or TM351 or TM358
<b>2<sup>nd</sup> (15 CHs)</b>	TM358	Machine learning and artificial intelligence	8	M269
	TM471B	Graduation Project-B	4	TM471A
		Faculty Elective	3	