Department of CSIT Curriculum Plan
COMPUTERS AND INFORMATION TECHNOLOGY- INFORMATION TECHNOLOGY. PROGRAM WITH SUMMER TRAINING

Level		1st Semester							2nd Semester					
	Code	No.	Name	LT	LB	TU	Credits	Code	No.	Name	LT	LB	TU	Credits
1st	AR	101	Arabic Language I	2	0	0	2	AR	103	Arabic Language II	2	0	0	2
	CS	101	Computers Fundamentals	2	2	0	3	CS	151	Programming Fundamentals	2	2	0	3
	PHYS	101	General Physics	2	2	0	3	CSE	100	Digital Logic Design	2	2	0	3
	ENGL	101	English Language I	2	0	0	2	ENGL	102	English Language II	2	0	0	2
	IS	101	Islamic Culture	2	0	0	2	MATH	102	Calculus II	2	0	0	2
	MATH	101	Calculus	2	0	0	2	CS	102	Information technology Fundamentals	2	2	0	3
	NC		National Culture	2	0	0	2	CS		Skills of Comm. & Creative Thinking	2	0	0	2
								AIC		Arab Israeli Conflict	2	0	0	2
			Total Credits	14	4	0	16			**Total Credits**	16	6	0	19
2nd	CS	201	Structured Programming	2	2	0	3	CS	202	Object-Oriented Programming	2	2	0	3
	CS	151	Discrete Structures	2	0	0	2	CS	205	Data Structures	2	2	0	3
	CS	213	Introduction to Database	2	2	0	3	CS	322	Database Systems Design	2	2	0	3
	MATH	2xx	Differential Equations.	2	0	0	2	STAT	2xx	Probability & Statistics	2	0	0	2
	BA		Accounting Principles	2	0	0	2	GE	201	Research Methodology	2	0	0	2
	CS	265	Advanced Information technology	2	0	0	2	CS	233	Computers Architecture & Assembly Language	2	2	0	3
	CS	2xx	Linear Algebra	2	0	0	2							
			Total Credits	14	4	0	16			**Total Credits**	12	8	0	16
3rd	CS	303	Visual Programming	2	2	0	3	CS	373	Web Applications Development	2	2	0	3
	CS	341	Computer Networks	2	2	0	3	CS	353	Computational Theory	2	0	0	2
	CS	351	Algorithms Analysis & Design	2	2	0	3	CS	455	Advanced Programming	2	2	0	3
	CS	381	Artificial Intelligence	2	2	0	3	CS	453	Data Mining	2	2	0	3
	CS	372	Applied Numerical Analysis.	2	2	0	3	CS	370	Computer Graphics	2	2	0	3
	CS	331	Operating Systems	2	2	0	3	CS	360	Systems Analysis & Design	2	2	0	3
	CS		Introduction to Web Design	2	2	0	3							
			Total Credits	14	14	0	21			**Total Credits**	12	10	0	17
4th	CS	361	Software Engineering	2	2	0	3	CS	473	Network Design and Management	2	2	0	3
	CS	343	Client-Server Programming	2	2	0	3	CS		Cloud Computing	2	2	0	3
	CS	353	Compilers Construction	2	2	0	3			IT Projects Management	2	0	0	2
	CS	457	Cryptography & Information Security	2	2	0	3	CS	48x	AI Applications	2	2	0	3
	CS	470	Digital Image Processing	2	2	0	3	CS	496	Graduation Project II	2	0	2	3
	CS	495	Graduation Project I	2	0	2	3							
			Total Credits	12	10	0	18			**Total Credits**	10	6	0	14
			Total credits required in CS Program are: 137 Credits Hour											

Table A: List of Topics for *CS 4xx – Selective Topic in CS*[i]

Code	No.	Name	Credits	Pre-Req.	Notes
CS	425	Distributed Systems	3 (3-0-0)	CS 321 & CS 371	Any one of those topics could be teach in the first semester of fourth level
	437	Mobile Applications Development	3 (2-2-0)	CS 201 & CS 205	
	445	Information Retrieval	3 (3-0-0)	CS 341	
	455	Simulation and Modeling	3 (3-0-0)	CS 103 & CSS 201	
	462	Advance Software Engineering	3 (3-0-0)	CS 362	
	465	Software Testing & Quality Assurance	3 (3-0-0)	CS 362	
	472	Computer Network Technologies	3 (3-0-0)	CS 371	
	473	Networks Design and Management	3 (3-0-0)	CS 371	
	475	Parallel Computing	3 (3-0-0)	CS 321	
	490	Soft Computing	3 (3-0-0)	CSS 201	

Table B: List of Topics for *CS 48x - AI Applications*[ii]

Code	No.	Name	Credits	Pre-Req.	Notes
CS	483	Expert Systems & Knowledge Engineering	3 (3-0-0)	CS 381	
	484	Neural Networks			
	485	Arabic Computing			
	486	Natural language processing			
	487	Pattern recognition			

[i] *Selecting of the **Selective Topic in CS** from **Table A,** will be based on MC Department resources. The name of **Selective Topic in CS** will be dedicated through the MC Department console before the beginning of the first semester in each academic year.*

[ii] *Selecting of **AI Applications** topic from **Table B,** will be based on MC Department resources. The name of selected **AI Applications** topic will be dedicated through the MC Department console before the beginning of the first semester in each academic year.*