

SUMMARY OF COURSES OFFERED

PRINCIPAL SUBJECT AREA

COMPUTER SCIENCE

100 LEVEL - COMPUTER SCIENCE					
Course Number	Title	No. of Credits	Prerequisites	Compulsory for	
				General Degree	Special Degree
CS 100	Computer Applications - Foundation course	2		√	√
CS 101	Introduction to Computer Science	3		√	√
CS 102	Programming Techniques	3		√	√
CS 104	Structured oriented Programming practical	1	CS 101, CS 102	√	√
CS 105	Object oriented Programming practical	1	CS 101, CS 102	√	√
	Total	10			

200 LEVEL - COMPUTER SCIENCE					
Course Number	Title	No. of Credits	Prerequisites	Compulsory for	
				General Degree	Special Degree
CS 201	Data Structures	2	CS 101, CS 104, CS 105	√	√
CS 202	Data Structures Practicals	1	CS 104, CS 105, CS 201	√	√
CS 203	Database Management Systems	2	CS 101, CS 104, CS 105	√	√
CS 204	Programming using Database Management Systems	1	CS 104, CS 105, CS 202, CS 203	√	√
CS 205	Computer Architecture	3	CS 101, CS 102		√
CS 206	Computer Device Interfacing	2	CS 205		√
CS 209	Concurrent Programming	1	CS105, CS201		
BC 201	Basic Computing I	2	CS 100		
BC 202	Micro Computer Applications I	1	BC 201		
	Total	15			

300 LEVEL - COMPUTER SCIENCE					
Course Number	Title	No. of Credits	Prerequisites	Compulsory for	
				General Degree	Special Degree
CS 303	Operating Systems Concepts	3	CS 203	√	√
CS 304	Project in Computer Science I	3	CS 311, CS 315, CS 303		√
CS 305	Communication Networks	2	CS 303	√	√
CS 306	Compiler Construction	3	CS 315, CS 303		
CS 307	Computer Graphics	3	CS 315		√
CS 308	Computer Graphics Programming	2	CS 307		√
CS 309	Object Oriented Analysis and Design	3	CS 102, CS 201		√
CS 310	Server Side Web Programming	3	CS 104, CS 105, CS 203, CS 204		√
CS 311	Software Engineering	2	CS 201	√	√
CS 312	Human Computer Interaction Design	2	CS201, CS315		
CS 313	Digital Image Processing	2	CS315		
CS 314	Image Processing practical	1	CS313		
CS 315	Design and Analysis of Algorithms	2	CS 201, CS 202		
BC 301	Basic Computing II	2	BC 201, BC 202		
BC 302	Micro Computer Applications II	1	BC 301		
	Total	34			

400 LEVEL - COMPUTER SCIENCE					
Course Number	Title	No. of Credits	Prerequisites	Compulsory for	
				General Degree	Special Degree
CS 401	Artificial Intelligence and Expert Systems	3	CS 301		√
CS 402	Intelligent Systems in CIM	2	CS 401		√
CS 404	Parallel Processing	3	CS 206, CS 303, CS 306		√
CS 406	Foundations of Distributed Computing	3	CS 102, CS 305		√
CS 408	Computer Vision	2	CS313, CS314		
CS 409	Neural networks and Fuzzy logics	3	CS 401		
CS 410	Internet and Multimedia Systems	2	CS305		
CS 411	Multimedia practical	1	CS410		
CS 412	Mobile and Pervasive Computing	2	CS305,CS406		
CS 413	Information and Network Security	2	CS305		
CS 414	Software Project Management	2	CS311		
CS 415	Industrial Training	3			
CS 421	Project in Computer Science II-Individual Project Work	6	CS 311		√
CS 423	Seminar	1			√
	Total	35			

Note: Students opting to follow the Special Degree course in Computer Science are required to select courses from the following course units in addition to fulfill their credit requirements.

ST102 (3 credits) Introduction to Probability Theory

ST201 (3 credits) Probability Theory

ST203 (3 credits) Theory of Statistics

MT308 (2 credits) Combinatorics

MT209 (2 credits) Graph Theory

Credit requirement for special students