

COURSE STRUCTURE		
	YEAR 1	
	SEMESTER 1	
CODE	DESCRIPTION	UNITS
COM 110	Introduction to computer & computing	3
PHY 110	Basic physics 1	4
COM 111	Computer applicaton 1	3
COM 113	Mathematics fro computer science 1	3
MAT 110	Basic calculus	3
IRD 100	Communication skills 1	3
IRD 101	Quantitative skills 1	3
	TOTAL	22
	SEMESTER 2	
CODE	DESCRIPTION	UNITS
PHY 111	Basic physics 2	4
MAT 111	Geometry & elementary applied mathematics	3
COM 120	System hardware	3
COM 121	procedural programming 1	3
COM 123	Mathematics for computer science 2	3
IRD 102	Communication skills 2	3
	TOTAL	19
	YEAR 2	
	SEMESTER 1	
CODE	DESCRIPTION	UNITS
COM 213	Procedural programming 2	3
COM 211	System software	3
COM 212	Digital electronics 1	3
COM 215	Electrical circuits	3
COM 217	Electronics 1	3
IRD 204	Quantitative skills 2	3
COM 216	Internet fundamentals	3
	TOTAL	21
	SEMESTER 2	
CODE	DESCRIPTION	UNITS
COM 220	Software engineering 1	3
COM 221	computer organizaton	3
PHY 210	Electricity & magnetism	3
COM 222	Internet application	3
COM 223	Operating systems & networks	3
COM 224	Data structures	3
STA 205	Statistics & probability	3
	TOTAL	21

	YEAR 3	
	SEMESTER 1	
	CORE COURSES	
CODE	DESCRIPTION	UNITS
COM 310	Computer architecture	3
COM 311	Computer science project 1	3
COM 312	Software engineering 2	3
COM 313	Electronics 2	3
COM 315	Algorithms	3
COM 330	Intermediate hyper text mark-up language one elective software or hardware option	3
	TOTAL	18
	SOFTWARE OPTION	
CODE	DESCRIPTION	UNITS
COM 316E	Numerical computation	3
COM 318E	Database systems	3
COM 319E	Artificial intelligence	3
	HARDWARE OPTION	
CODE	DESCRIPTION	UNITS
COM 309E	Digital & analogue communication systems	3
COM 314E	Digital electronics 2	3
COM 317E	Data communication & computer network	3
	SEMESTER 2	
	CORE COURSES	
CODE	DESCRIPTION	UNITS
COM 320	Digital system design	3
COM 321	Compiler design	3
COM 326	software development	3
COM 329	Field/industrial attachment	6
	Two electives from software or hardware option	6
	TOTAL	21
	SOFTWARE OPTION	
CODE	DESCRIPTION	UNITS
COM 322E	Computational techniques of operation research1	3
COM 323E	Information systems security	3
COM 325E	Computer application 2	3
	HARDWARE OPTION	
CODE	DESCRIPTION	UNITS
COM 324E	Microelectronics	3
COM 327E	Digital electronics 3	3
COM 328E	Electronics 3	3

	YEAR 4	
	SEMESTER 1	
	CORE COURSES	
CODE	DESCRIPTION	UNITS
COM 410	User interface design	3
COM 413	Object oriented programming	3
COM 415	Human factors in computer & information systems	3
COM 419	Computer systems design	3
	Three electives from software or hardware option	9
	TOTAL	21
	SOFTWARE OPTION	
CODE	DESCRIPTION	UNITS
COM 408E	Metrics & measurement in software development	3
COM 409E	Distributed systems	3
COM 412E	Computational techniques of operation research 2	3
COM 417E	Computer graphics	3
COM 418E	Expert systems	3
COM 432E	Design techniques for web sites	3
	HARDWARE OPTION	
CODE	DESCRIPTION	UNITS
COM 411E	Signal processing 1	3
COM 414E	Semiconductor devices	3
COM 416E	Analogue & digital modulation	3
	SEMESTER 2	
	CORE COURSES	
CODE	DESCRIPTION	UNITS
COM 421	Engineering & software law	3
COM 422	Electronic circuits & microprocessors	3
COM 423	Computer science project 2	3
COM 426	Simulation & modelling	3
	Three electives from software or hardware option	9
	TOTAL	21
	SOFTWARE OPTION	
CODE	DESCRIPTION	UNITS
COM 420E	Advanced computer graphics	3
COM 424E	Neural networks	3
COM 425E	Advanced artificial intelligence	3
COM 431E	Human-computer interface design	3
	HARDWARE OPTION	
CODE	DESCRIPTION	UNITS
COM 427E	Data communication, antennas & propagation	3
COM 428E	Signal processing 2	3

COM 429E	Measurement & instrumentation	3
COM 430E	Advanced computer systems architecture	3