

DEPARTMENT of INFORMATION & COMMUNICATION TECHNOLOGY, MIT,MANIPAL

M.Tech. (Software Engg.)

Course structure (Applicable to 2012-13 admission onwards)

FIRST SEMESTER							SECOND SEMESTER					
Y R	SUBJECT CODE	SUBJECT NAME	L	T	P	C	SUBJECT CODE	SUBJECT NAME	L	T	P	C
I	MAT 519	Probability & Stochastic Process	4	0	0	4	ICT 522	Software Testing	4	0	0	4
	ICT 521	Theoretical Foundation of computer Science	4	0	0	4	ICT 524	Design & Analysis of Algorithms	4	0	0	4
	ICT 523	Mathematical Logic	4	0	0	4	ICT ***	Program Elective I	4	0	0	4
	ICT 525	Object Oriented Analysis and Design	4	0	0	4	ICT ***	Program Elective II	4	0	0	4
	ICT 527	Advanced Database Management Systems	4	0	0	4	ICT ***	Program Elective III	4	0	0	4
	HSS 501	Research Methodology & Technical communication	1	0	3	2	**** **	Open Elective	3	0	0	3
	ICT 531	Object Oriented Analysis and Design Lab	0	0	3	1	ICT 530	Software Architecture & Testing Lab	0	0	3	1
	ICT 533	Advanced Database Management Systems Lab	0	0	3	1	ICT 512	Advanced Technology Lab	0	0	3	1
							ICT 514	Seminar	0	0	3	1
		TOTAL	21	0	9	24		TOTAL	23	0	9	26
II	ICT 699	Project Work							0	0	0	40
		TOTAL							0	0	0	40

Program Electives

ICT 540	CDMA Systems
ICT 544	Advanced Network Technology & Management
ICT 546	Automated Reasoning
ICT 548	Performance Analysis of Embedded systems
ICT 550	Distributed Computing
ICT 552	Multimedia Communication
ICT 556	Parallel Processing and Algorithms
ICT 558	Information Security
ICT 560	Intelligent Systems
ICT 562	Design and Analysis of Systems
ICT 564	Computer Network protocols.
ICT 566	Software Architecting
ICT 568	Information Retrieval
ICT 570	Performance Modeling
ICT 572	Software Construction(Design patterns)
ICT 574	Parallel Computation and Applications
ICT 576	Software Quality management

Open Elective

ICT 580	Real Time Systems
ICT 582	Inter Vehicular Communication & GPS