Master of Computer Science and Engineering

FIRST SEMESTER

Theoretical Courses	Subjects		Periods/Weeks		Marks		Credit Points
Departmental / Specialization Basket	Subject Code	Subject Name	Lecture	Sessional	Examination	Sessional	
Paper-I	PG / CSE / T / 111A	Theory of Computing	3		100		3
Paper-II	PG / CSE / T/ 112A	Advanced Algorithms	3		100		3
Paper-III	PG / CSE / T/ 113A PG / CSE / T/ 113B	High Performance Architecture Advanced Operating Systems	3		100		3

Note: The students have to select 3 subjects from the departmental/specialization basket, i.e. one subject each from the list given in the baskets of Paper-I, Paper-II and Paper-III

Inter- Disciplinary Basket	Subject Code	Subject Name	Lecture	Sessional	Examination	Sessional	
Paper-IV	PG / CSE / T/ 114A	Advances in Artificial Intelligence	3		100		3
	PG / CSE / T/ 114B	Embedded & Real-time Systems	1				
	PG / CSE / T/ 114C	Computer Communication Network					
	PG / CSE / T/114D	Advanced Database System Concepts					
Paper-V	PG / CSE / T/ 115A	Object oriented Design & Techniques	3		100		3
	PG / CSE / T/ 115B	VLSI System Design					
	PG / CSE / T/ 115C	Wireless Communication &					
		Mobile Computing					
	PG / CSE / T/ 115D	Machine Learning					
Paper-VI	PG / CSE/ T / 116A	Image Processing	3		100		3
	PG / CSE / T / 116B	Modeling and Simulation					
	PG / CSE / T / 116C	Information and Coding Theory					

 $Note: The students \ have to select 3 \ subjects \ from \ the \ inter-departmental \ basket, i.e. \ one \ subject \ each \ from \ the \ list \ given in \ the \ baskets \ of \ Paper-IV, \ Paper-V \ and \ Paper-VI$

Sessional Courses							
Sessional 1	PG / CSE / S / 111	Assignment		4		100	3
Sessional 2	PG / CSE / S / 112	Seminar		3		100	3
			18	7	600	200	24

Total Periods/Week = 25

Total Marks = 800

SECOND SEMESTER

Theoretical Courses	Subjects		Periods/Weeks		Marks		Credit Points
Departmental / Specialization Basket	Subject Code	Subject Name	Lecture	Sessional	Examination	Sessional	
Paper-VII	PG / CSE / T/ 127A PG / CSE / T/ 127B PG / CSE / T/ 127C PG / CSE / T/ 127D	Distributed Operating Systems Distributed Systems Pattern Recognition Computational Geometry	3		100		3
Paper-VIII	PG / CSE / T/ 128A PG / CSE / T/ 128B PG / CSE / T/ 128C PG / CSE / T/ 128D PG / CSE / T/ 128E	Complexity of Computation Information Security Soft Computing Software Engineering High Speed Networking	3		100		3
Paper-IX	PG / CSE / T/ 129A PG / CSE / T/ 129B PG / CSE / T/ 129C PG / CSE / T/ 129D PG / CSE / T/ 129E	Combinatorial Algorithm Natural Language Processing Data Warehousing & Data Mining VLSI Testing & Verification Cryptography	3		100		3

Note: The students have to select 3 subjects from the departmental/ specialization basket, i.e. one subject each from the list given in the baskets of Paper-VII, Paper-VIII and Paper-IX

Inter- Disciplinary Basket	Subject Code	Subject Name	Lecture	Sessional	Examination	Sessional	
Paper-X	PG / CSE / T/ 1210A	Service Oriented Architecture	3		100		3
	PG / CSE / T/ 1210B	Multimedia Technologies					
	PG / CSE / T/ 1210C	Network Security					
	PG / CSE / T/ 1210D	Parallel Computing Techniques					
	PG / CSE / T/ 1210E	Bioinformatics					
	udents have the free	dom to choose one subject from	the list un	der Paper-	Χ.		
Sessional Courses							
Sessional 1	PG / CSE / S / 121	Term Paper Leading to Thesis		3		100	3
Sessional 2	PG / CSE / S / 122	Seminar		3		100	3
			12	6	400	200	18

Total Periods/Week = 18

Total Marks = 600

THIRD and FOURTH SEMESTER

Courses					
1	PG / CSE / TH / 21	Thesis Work	16	300	12
2	PG / CSE / VV/ 22	Viva-Voce on Thesis		100	
		•	16	400	12

Total Periods/Week = 16

Total Marks = 400