M.Tech Computer Science and Engineering

Semester I

S No.	Paper Code	Paper Name	Class Hours			Credit
		Theory	**L**	**T**	**P**	**Cr. Pt.**
1	PGCSE101	Advanced Engineering Mathematics [Compulsory]	3	1	0	4
2	PGCSE102	Advanced Operating System [Compulsory]	4	0	0	4
3	PGCSE103	Advanced Computer Architecture [Compulsory]	4	0	0	4
4	PGCSE104	Advanced Algorithms [Compulsory]	4	0	0	4
5	PGCSE105	Elective - I A) Artificial Neural Networks B) Agent Based Intelligent Systems C) Advanced Soft Computing D) Object Oriented Information System Design E) Software Engineering & CASE tools F) Computer Graphics & Multimedia	4	0	0	4
		Total	**19**	**1**	**0**	**20**
		Practical	**L**	**T**	**P**	**Cr. Pt.**
6	PGCSE191	Operating System Laboratory [Compulsory]	0	0	3	2
7	PGCSE192	A) Advanced Programming Lab	0	0	3	2
		Total	**0**	**0**	**6**	**4**
		Seminar	**L**	**T**	**P**	**Cr. Pt.**
8	PGCSE193	Seminar – Based on literature survey	0	2	0	1
		Total	**19**	**3**	**6**	**25**

Semester II

S No.	Paper Code	Paper Name	Class Hours			Credit
		Theory	**L**	**T**	**P**	**Cr. Pt.**
1	PGCSE201	Advanced DBMS [Compulsory]	4	0	0	4
2	PGCSE202	Advanced Computer Network & Security [Compulsory]	4	0	0	4
3	PGCSE203	Theory of Computation [Compulsory]	4	0	0	4
4	PGCSE204	Elective - II A) Cluster, Grid and Cloud Computing B) Mobile Computing C) Advanced Web Technology D) Soft Computing E) Cryptography & Computer Security	4	0	0	4
5	PGCSE205	Elective - III A) Image Processing B) Pattern Recognition C) Real-time Embedded Systems & Programming D) Complex Systems E) Distributed System Principle	4	0	0	4
		Total	**20**	**0**	**0**	**20**
		Practical	**L**	**T**	**P**	**Cr. Pt.**
6	PGCSE291	Part-I – Computer Networking & DBMS Laboratory [Compulsory]	0	0	3	2
		Total	**0**	**0**	**3**	**2**
		Seminar and Viva-voice	**L**	**T**	**P**	**Cr. Pt.**
7	PGCSE292	Seminar – Term paper leading to project	0	2	0	1
		Total	**20**	**2**	**3**	**23**

Semester III

S No.	Paper Code	Paper Name	Class Hours			Credit
		Theory	**L**	**T**	**P**	**Cr. Pt.**

			L	T	P	Cr. Pt.
1	PGCSE301	A: Project Management & Entrepreneurship B: Teaching & Research Methodologies	4	0	0	4
2	PGCSE302	Elective - IV A) Human Computer Interaction B) Bioinformatics C) Data Mining & Data Ware Housing D) Compiler Construction E) VLSI Design	4	0	0	4
		Total	**8**	**0**	**0**	**8**
		Seminar and Viva-voice	**L**	**T**	**P**	**Cr. Pt.**
3	PGCSE391	Project – Part 1 (Dissertation I + Defence of Project - I)	0	0	18	4+8=12
		Total	**8**	**0**	**18**	**20**
Semester IV					
		Seminar and Viva-voice	**L**	**T**	**P**	**Cr. Pt.**
1	PGCSE491	Project – Part 2 (Dissertation II + Defence of Project - II)	0	0	0	6+18=24
2	PGCSE492	Comprehensive Viva Voice	0	0	0	4
		Total	**0**	**0**	**0**	**28**