Syllabus for M. Tech. in Information Technology (in-house)
(Effective from academic session 2019-20)

Curriculum Structure

M. Tech Sem-I.

Code	Course Title	Hours per week			Credits
		L	T	P	
PGIT-101	Program Core I- Mathematical foundations of Computer Science	3	0	0	3
PGIT-102	Program Core II- Advanced Data Structures	3	0	0	3
PGIT-103A/103B/103C	Program Elective I- Advanced Web Technology/ Data Science/Mobile Communication	3	0	0	3
PGIT-104A/104B/104C/104D	Program Elective II- Internet of Things/ Machine Learning/Social Network Analysis/Information Security	3	0	0	3
PGIT-105	Research Methodology and IPR	2	0	0	2
PGIT-106A/106B/106C/106D	Audit Course	2	0	0	0
PGIT-192	Laboratory 1 (Advanced Data Structures)	0	0	4	2
PGIT-193A/193B/193C	Laboratory 2 (Based on Elective 1)	0	0	4	2
PGIT-194A/194B/194C	Laboratory 3 (Based on Elective II)	0	0	4	2
Total Credits: 20					

M. Tech Sem- II

Code	Course Title	Hours per week			Credits
		L	T	P	
PGIT-201	Program Core III – Advanced Computer Architecture	3	0	0	3
PGIT-202	Program Core IV – Advanced Operating System	3	0	0	3
PGIT-203A/203B/203C/203D/203E	Program Elective III – Cloud Computing/ Image Processing/ Soft Computing/Data Warehousing and Data Mining/Wireless and Sensor Networks	3	0	0	3

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PGIT-204A/204B/204C/204D	Program Elective IV– Distributed Systems / Big Data Analytics / Information Theory and Coding/ Pattern Recognition	3	0	0	3
PGIT- 205A/B/C/D	Audit Course-2	2	0	0	0
PGIT-292	Laboratory 1 (Advanced Operating System)	0	0	4	2
PGIT-293A/B/C/D	Laboratory 2 (Based on Elective III)	0	0	4	2
PGIT-293	Term Paper with Seminar	0	0	4	2
Total Credits: 18					

*Students be encouraged to go to Industrial Training/Internship for at least 2-3 months during semester break.

M.Tech III Sem*

Code	Course Title	Hours per week			Credits
		L	T	P	
PGIT-301A/301B/301C	Program Elective V – Bio-informatics/ **Remote Sensing and GIS** / Distributed Databases/	3	0	0	03
PGIT-302	**Open Elective** A. Business Analytics B. Project Management & Entrepreneurship C. Industrial Safety D. Operations Research E. Cost Management of Engineering Projects F. Composite Materials G. Waste to Energy	3	0	0	03
PGIT-393	Dissertation-I /Industrial Project	0	0	20	10
Total Credits: 16					

*Students going for Industrial Project/Thesis will complete these courses through MOOCs.

M. Tech Sem-IV

	Course Title	Hours per week			Credits
		L	T	P	
PGIT-491	Dissertation II	0	0	32	16
Total Credits: 16					

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Audit course 1 & 2

1. English for Research Paper Writing
2. Disaster Management
3. Sanskrit for Technical Knowledge
4. Value Education
5. Constitution of India
6. Pedagogy Studies
7. Stress Management by Yoga
8. Personality Development through Life Enlightenment Skills.