



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

Curriculum Structure

Semester I

Course Code	Subject	L	T	P	Credits
PGIT(IoT)101	Program Core I- Mathematical foundations of Computer Science	3	0	0	3
PGIT(IoT)102	Program Core II- Advanced Data Structures	3	0	0	3
PGIT(IoT)103A PGIT(IoT)103B PGIT(IoT)103C	Program Elective I- A. Data Science/ B. Wireless Access Technologies/ C. Mobile Applications and Services	3	0	0	3
PGIT(IoT)104A PGIT(IoT)104B PGIT(IoT)104C	Program Elective II- A. Machine Learning/ B. Smart Sensors and Internet of Things/ C. Logic and Functional Programming	3	0	0	3
PGIT(IoT)105	Research Methodology and IPR	2	0	0	2
PGIT(IoT)106A/B/C/D	Audit Course	2	0	0	0
PGIT(IoT)192	Laboratory 1 (Advanced Data Structures)	0	0	4	2
PGIT(IoT)193A/B/C	Laboratory 2 (Based on Elective I)	0	0	4	2
PGIT(IoT)194A/B/C	Laboratory 3 (Based on Elective II)	0	0	4	2
Total Credits: 20					

Semester II

Course Code	Subject	L	T	P	Credits
PGIT(IoT)201	Program Core III – Advanced Computer Architecture	3	0	0	3
PGIT(IoT)202	Program Core IV – Wireless and Sensor Networks	3	0	0	3
PGIT(IoT)203A/ B/C	Program Elective III – A. Sensor Networks and Internet of Things B. Data Visualization C. IoT Application and Communication Protocol	3	0	0	3
PGIT(IoT)204A/B/C	Program Elective IV – A. Big Data Analytics B. Network Security C. Advanced Machine Learning	3	0	0	3
PGIT(IoT)205A/B/C/ D	Audit Course	2	0	0	0
PGIT(IoT)291	Advanced Computer Architecture Lab	0	0	4	2
PGIT(IoT)292	Wireless and Sensor Networks Lab	0	0	4	2



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PGIT(IoT)293A/B/C	Lab based on Elective III	0	0	4	2
PGIT(IoT)294	Term Paper with Seminar	0	0	4	2
Total Credits: 20					

Semester III

Course Code	Subject	L	T	P	Credits
PGIT(IoT)301A/B/C	Program Elective V – A. Cloud Computing B. Real Time Operating Systems C. Emulation and Simulation Methodologies	3	0	0	03
PGIT(IoT)302A/ PGIT(IoT)302B/ PGIT(IoT)302C/ PGIT(IoT)302D/ PGIT(IoT)302E/ PGIT(IoT)302F	Open Elective A. Business Analytics B. Industrial Safety C. Operations Research D. Cost Management of Engineering Projects E. Composite Materials F. Waste to Energy	3	0	0	03
PGIT(IoT)391	Dissertation-I /Industrial Project	0	0	20	10
Total Credits: 16					

Semester IV

Course Code	Subject	L	T	P	Credits
PGIT(IoT)491	Dissertation II	0	0	32	16
Total Credits: 16					

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.