MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WB
Syllabus of M. Tech. in Information Technology with Specialization: Internet of Things
(Effective for 2019-2020 Admission session)
Curriculum Structure

M. Tech Sem-I.

Code	Course Title	Hours per week			Credits
		L	T	P	
	Program Core I- Mathematical foundations of Computer Science	3	0	0	3
	Program Core II- Advanced Data Structures	3	0	0	3
	Program Elective I- Data Science/ Wireless Access Technologies/ Mobile Applications and Services	3	0	0	3
	Program Elective II- Machine Learning/ Smart Sensors and Internet of Things/ Logic and Functional programming	3	0	0	3
	Research Methodology and IPR	2	0	0	2
	Audit Course	2	0	0	0
	Laboratory 1 (Advanced Data Structures)	0	0	4	2
	Laboratory 2 (Based on Electives)	0	0	4	2
Total Credits-			18		

M.TechSem- II

Code	Course Title	Hours per week			Credits
		L	T	P	
	Program Core III – Advance Algorithms	3	0	0	3
	Program Core IV – Soft Computing	3	0	0	3
	Program Elective III – Sensor Networks and Internet of Things/ Data Visualization/ IoTApplication and Communication Protocol	3	0	0	3
	Program Elective IV – Big Data Analytics/ Network Security/ Advanced Machine Learning	3	0	0	3
	Audit Course	2	0	0	0
	Laboratory 3 (Based on cores)	0	0	4	2
	Laboratory 4 (Based on Electives)	0	0	4	2
	Mini Project with Seminar	2	0	0	2

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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	
	Program Elective V – Cloud Computing/ IOT and Smart Cities/ Emulation and Simulation Methodologies	3	0	0	03
	Open Elective 1. Business Analytics 2. Industrial Safety 3. Operations Research 4. Cost Management of Engineering Projects 5. Composite Materials 6. Waste to Energy	3	0	0	03
	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	
	Dissertation II	0	0	32	16
Total Credits-		16			

The program offers several elective courses, focusing on different aspects of Internet of Things. A student can choose to do any course from given program elective set.