



Course Name: Master of Technology (M. Tech.) in Internet of Things (IoT)
And Embedded System

Course Structure

FIRST YEAR

SEMESTER I								
Sl. No	Type	Course code	Course Title	L	T	P	Contact Hrs/wk	Credits
1	Theory	EEC61161	Core I: System Design using Embedded Processors	3	0	0	3	3
2	Theory	EEC61163	Core II: Internet of Things	3	0	0	3	3
3	Theory	-	Elective I	3	0	0	3	3
4	Theory	-	Elective II	3	0	0	3	3
5	Theory	-	Elective III	3	0	0	3	3
6	Practical	EEC61261	Core I lab: System Design using Embedded Processors - Laboratory	0	0	3	3	2
7	Practical	EEC61263	Core II Lab: Internet of Things Lab	0	0	3	3	2
8	Seminar	EEC61301	Seminar and Technical Writing-I	0	0	2	2	2
Total				15	0	8	23	21

SEMESTER II								
Sl. No	Type	Course code	Course Title	L	T	P	Contact Hrs/wk	Credits
1	Theory	EEC61162	Core III: Infrastructure Communication and Security	3	0	0	3	3
2	Theory	EEC61164	Core IV: Embedded OS & RTOS	3	0	0	3	3
3	Theory	-	Elective IV	3	0	0	3	3
4	Theory	-	Elective V	3	0	0	3	3
5	Theory	-	Elective VI	3	0	0	3	3
6	Practical	EEC61264	Core VI Lab: Embedded OS & RTOS Laboratory	0	0	3	3	2

7	Seminar	EEC61302	Seminar and Technical Writing-II	0	0	2	2	2
Total				15	0	5	20	19

SECOND YEAR

SEMESTER III								
Sl. No	Type	Course code	Course Title	L	T	P	Contact Hrs/wk	Credits
1	Dissertation	EEC62401	Thesis Part I	0	0	24	24	16
2	Seminar	EEC62301	Seminar and Technical Writing III	0	0	2	2	2
Total				0	0	26	26	18

SEMESTER IV								
Sl. No	Type	Course code	Course Title	L	T	P	Contact Hrs/wk	Credits
1	Dissertation	EEC62402	Thesis Part II	0	0	24	24	16
2	Seminar	EEC62302	Seminar and Technical Writing IV	0	0	2	2	2
3	Sessional	EEC62502	Grand Viva					4
Total				0	0	26	26	22

Total Credit (over two years): 80

List of Elective Subjects (M Tech in IoT and Embedded System Design):

Elective – I to III:

1. EEC61167 Embedded Programming (3-0-0)
2. EEC61169 Advanced Digital System Design (3-0-0)
3. EEC61171 Cloud Architecture and Computing (3-0-0)
4. EEC61173 Big Data Analytics for IoT (3-0-0)
5. EEC61175 Smart Convergent Technologies (3-0-0)
6. EEC61177 Embedded Applications in Power Conversion (3-0-0)
7. EEC61179 High Speed Digital Design (3-0-0)
8. EEC61181 Advanced Networking Technologies (3-0-0)
9. EEC61183 Design of Digital Signal Processing Systems (3-0-0)

Elective – IV to VI:

10. EEC61168 RFID and Microcontrollers 3-0-0)
11. EEC61170 Embedded Control Systems (3-0-0)
12. ECS61172 Foundation of Cyber Physical Systems (3-0-0)
13. EEC61174 SDN and NFV for IOT (3-0-0)
14. EEC61176 Advanced Distributed Systems (3-0-0)
15. EEC61178 Design and Testing Of Digital Systems (3-0-0)
16. ECS61180 Cloud Storage and Computing (3-0-0)

- 17. ECS61182 Multimedia Compression Techniques (3-0-0)
- 18. ECS61184 Information Security (3-0-0)

1. Specializations: M. Tech. in IoT and Embedded System

EEC61161	Specialization Course-I System Design using Embedded Processors
EEC61163	Specialization Course-II Internet of Things
EEC61162	Specialization Course-III Infrastructure Communication and Security
EEC61164	Specialization Course-IV Embedded OS & RTOS
EEC61261	Specialization Lab-I System Design using Embedded Processors - Laboratory
EEC61263	Specialization Lab-II Internet of Things Lab
EEC61264	Specialization Lab-III Embedded OS & RTOS Laboratory