

**Course structure with proposed credit points for
2 year M.Tech. in Sensor Technology and IoT for the batch of 2020-22**

1st Semester

Sl. No	Subject code	Subject Name	Class Load/Week			Total load (h/week)	Credit
			L	T	P		
1.	PGST-111	Principles of Sensor Technology and Applications (Core)	3	0	0	3	3
2.	PGST-112	Cloud Computing and IoT (Core)	3	0	3	6	6
3.	PGST-113	Digital Signal and Image Processing (Core)	3	0	0	3	3
4.	PGST-114	Environmental Sensors (Core)	3	0	2	5	5
5.	PGST-115	Python and MongoDB	0	0	3	3	3
6.	PGST-116	Nanomaterials and Sensors (Elective)	3	0	0	3	3
7.	PGST-117	Flexible and Wearable Sensors (Elective)	0	0	3		
1st SEMESTER TOTAL						23	23

2nd Semester

Sl. No	Subject code	Subject Name	Class Load/Week			Total load (h/week)	Credit
			L	T	P		
1.	PGST-121	Microcontrollers and Embedded Systems (Core)	3	0	0	3	3
2.	PGST-122	Sensor Data Analytics (Core)	3	0	2	5	5
3.	PGST-123	Sensing Materials (Core)	3	0	2	5	5
4.	PGST-123	Student Seminar	3	0	0	3	3
5.	PGST-125	Biomedical Sensors and Instrumentation (Elective)	3	0	0	3	3
6.	PGST-124	Industrial Control System (Elective)	3	0	0		
7.	PGST-126	MEMS (Micro-electromechanical system) Sensors (Elective)	2	0	1		
8.	PGST-127	Industrial IoT (Elective)	0	1	2	3	3
9.	PGST-128	Product Design, Management Techniques and Entrepreneurship (Elective)	3	0	0		
2nd SEMESTER TOTAL						22	22

3rd Semester

Sl. No	Subject code	Subject Name	Class Load/Week			Total load (h/week)	Credit
			L	T	P		
1.	PGST-131	Project Thesis – Interim (Report & presentation)	0	0	20	20	20
3rd SEMESTER TOTAL						20	20

4th Semester

Sl. No	Subject code	Subject Name	Class Load/Week			Total load (h/week)	Credit
			L	T	P		
1.	PGST-141	Project Thesis– Final (Report & presentation)	0	0	20	20	20
2.	PGST-142	Project Final Viva-voce	0	0	0	0	05
4th SEMESTER TOTAL						20	25

Total Credits = [23+22+20+25] = 90

Student intake capacity – 18 seats

Eligibility:

B.E. / B. Tech. (with minimum 60% marks or equivalent CGPA) / M.Sc. (with minimum 50% marks or equivalent CGPA) in Computer Science / Electronics / Instrumentation / Optoelectronics/ Materials Science / any other relevant subject.