

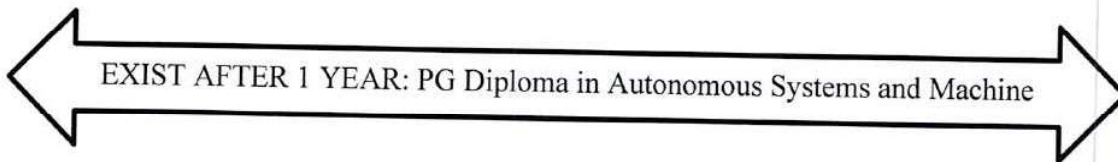
**MTech in Autonomous Systems and Machine Intelligence**  
**Department of Electrical and Electronics Engineering**

**1<sup>st</sup> Semester**

S.N.	Course Code	Name of Subject	L-T-P	Credit
1	EE-603	Machine Learning Techniques	3-0-2	4
2	EE-612	Sensors and Actuators	3-0-2	4
3	EE-613	Next-Generation Communication Systems	3-0-2	4
4	EE-614	Human-Machine Interaction	3-0-0	3
5	EE-XXX	Elective-1	3-0-0	3
6	EE-XXX	Elective-2	3-0-0	3
		<b>Total</b>		<b>21</b>

**2<sup>nd</sup> Semester**

S.N.	Course Code	Name of Subject	L-T-P	Credit
1	EE-615	Autonomous Systems	3-0-2	4
2	EE-616	Artificial Intelligence	3-0-2	4
3	EE-617	Advanced Embedded Systems	3-0-2	4
4	EE-609	Engineering Research Methodology	2-1-0	3
5	EE-XXX	Elective-3	3-0-0	3
6	EE-XXX	Elective-4	3-0-0	3
		<b>Total</b>		<b>21</b>



**3<sup>rd</sup> Semester**

S.N.	Course Code	Name of Subject	L-T-P	Credit
1	EE-XXX	MOOC-1/ Elective-5	3-0-0	3
2	EE-698	M.Tech Dissertation-I / Internship	NA	12
			<b>Total</b>	<b>15</b>

**4<sup>th</sup> semester**

S.N.	Course Code	Name of Subject	L-T-P	Credit
1	EE-699	M.Tech Dissertation-II / Internship	NA	15
			<b>Total</b>	<b>15</b>

**Semester-wise credit distribution:**

1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	3 <sup>rd</sup> Semester	4 <sup>th</sup> Semester	Total Credits
21	21	15	15	72

**List of Electives:**

S. N.	Subject Code	Name of Subject	L-T-P	Credit
1	EE-069	Digital Image Computation (IAA)	3-0-0	3
2	EE-070	Audio Signal Processing (VP)	3-0-0	3
3	EE-071	Advanced Digital Signal Processing (VP)	3-0-0	3
4	EE-072	Biomedical Signal Processing (IAA)	3-0-0	3
5	EE-073	Data Analytics (PR)	3-0-0	3
6	EE-074	Computer Vision (IAA)	3-0-0	3
7	EE-075	Reinforcement Learning (IAA)	3-0-0	3
8	EE-076	Internet of Bio-Nano Things (GS)	3-0-0	3
9	EE-077	System Design using HDL (BJ)	3-0-0	3
10	EE-078	Quantum Computing (PR)	3-0-0	3
11	EE-079	Cyber Security (PR)	3-0-0	3
12	EE-080	Fundamentals of Machine Learning (IAA)	3-0-0	3
13	EE-081	Optimization Techniques (VP)	3-0-0	3
14	EE-082	Advanced Control System (VP)	3-0-0	3

15	EE-083	Internet of Things (PR)	3-0-0	3
16	EE-084	Embedded Softwares (BJ)	3-0-0	3
17	EE-085	Software Defined Radio (BP)	3-0-0	3
18	EE-086	Quantum Communication (GS)	3-0-0	3
19	EE-087	5G and 6G standards (PS)	3-0-0	3
20	EE-088	Smart Antennas (RC)	3-0-0	3
21	EE-089	Advanced Optical Communication (CP)	3-0-0	3
22	EE-090	CAD for VLSI (BJ)	3-0-0	3
23	EE-091	FPGA based System design (BJ)	3-0-0	3
24	EE-092	Data Communication Protocol (PS)	3-0-0	3
25	EE-051	Device and interconnect modelling	3-0-0	3
26	EE-052	VLSI Signal Processing	3-0-0	3
27	EE-053	Low Power VLSI	3-0-0	3
28	EE-054	Microcontroller and Embedded Systems	3-0-0	3
29	EE-055	Memory Devices and Circuits	3-0-0	3
30	EE-056	VLSI Architecture	3-0-0	3
31	EE-057	Hardware Security	3-0-0	3
32	EE-058	FPGA-Based System Design	3-0-0	3
33	EE-059	Quantum Electronics	3-0-0	3
34	EE-060	RF Circuit Design	3-0-0	3
35	EE-061	Mixed Signal SoC Design	3-0-0	3
36	EE-062	AI-Accelerator Design	3-0-0	3
37	EE-063	System-on-Performance Chip Design	3-0-0	3
38	EE-064	Embedded Software	3-0-0	3
39	EE-065	High-Performance Computing Systems	3-0-0	3
40	EE-066	Special Topics in IC Design and Technology	3-0-0	3
41	EE-067	Sensors for autonomous system	3-0-0	3
42	EE-068	Network on Chip	3-0-0	3
43	EE-608	Design Verification and Testing	3-0-0	3