

T. Y. B. Tech
in
Electronics and Telecommunication Engineering

Semester - V

Sr. No.	Course Code	Course Title	L	T	P	S	Cr	Category
01	PCC-08	Digital Signal Processing	2	0	2	1	3	PCC
02	PCC-09	Configurable Logic design	3	0	2	2	4	PCC
03	PCC-10	Electromagnetic Waves and Antennas	3	0	0	1	3	PCC
04	PEC-01	Program Specific Elective	3	0	2	1	4	PEC
05	OE-03	Sensors and Actuators	2	0	0	1	2	OE
06	OJT-01	Internship	--	--	--	--	1	OJT
07	VSEC-02	Cornerstone project -II	0	0	6	2	2	VSEC
08	MD M-02	Multidisciplinary Minor	3	0	2	1	4	MD M
Total			13	00	12	08	23	

Semester - VI

Sr. No.	Course Code	Course Title	L	T	P	S	Cr	Category
01	PCC-11	Power electronics and drives	2	0	2	1	3	PCC
02	PCC-12	Embedded system design	2	0	2	1	3	PCC
03	PCC-13	Data Communication and Networking	2	0	2	1	3	PCC
04	PCC-14	VLSI design	2	0	2	1	3	PCC
05	PEC-02	Program Specific Elective	3	0	2	1	4	PEC
06	VSEC-03	Cornerstone project - III	0	0	6	2	2	VSEC
07	MD M-03	Multidisciplinary Minor	3	0	2	1	4	MD M
Total			11	00	16	07	22	

Program Elective Courses (PECs)

Sr. No.	PEC/Sem	Option 1 Signal Processing	Option 2 Electronic Communication
01	PEC - 1/V	Digital Image Processing and Applications	Information Theory and Coding
02	PEC - 2/VI	AI and Machine Learning	Fiber Optic Communication
03	PEC - 3/VII	Digital Audio Processing	Microwave Theory and Techniques/ ASIC Physical Design
04	PEC - 4/VIII	MOOC Courses offered by NPTEL/SWAYAM	
05	PEC - 5/ VIII	MOOC Courses offered by NPTEL/SWAYAM	
06	PEC - 6/ VIII	MOOC Courses offered by NPTEL/SWAYAM	

Multidisciplinary Minor

BIS Standards for AI

Sr. No.	Semester	Course Code	Course Title	L	T	P	S	Cr
01	IV	MD M-01	Standardization – Basic Concepts	3	0	0	1	3
02	V	MD M-02	Artificial Intelligence – Basic Concepts	3	0	2	1	4
03	VI	MD M-03	Challenges for standards formation in AI	3	0	2	1	4
04	VII	MD M-04	National and International standards in AI	3	0	0	1	3
Total				10	00	08	05	14

Interdisciplinary Minor

AI and ML in Signal Processing

Sr. No.	Semester	Course Code	Course Title	L	T	P	S	Cr
01	III	ID M-01	Signal Transforms	2	0	2	1	3
02	IV	ID M-02	Image and Video processing	3	0	2	1	4
03	V	ID M-03	Introduction to AI & ML techniques	3	0	2	1	4
04	VI	ID M-04	Computer vision and Pattern Recognition	3	0	2	1	4
05	VII	ID M-05	Deep learning algorithms for Signal processing	2	0	2	1	3
Total				13	00	10	05	18

Honors

Wireless Communication and Next Generation Networks

Sr. No.	Semester	Course Code	Course Title	L	T	P	S	Cr
01	III	H-01	Random Signal and Stochastic Process	2	1	0	1	3
02	IV	H-02	Advance in Digital Communication	3	0	2	1	4
03	V	H-03	Cognitive Radio	3	0	2	1	4
04	VI	H-04	Software Defined Networks	3	0	2	1	4
05	VII	H-05	Next Generation Technologies	2	0	2	1	3
Total				13	01	08	05	18