

COURSE STRUCTURE AND SYLLABUS

**For
B.Tech.**

**Department of
Electronics and Communication Engineering**

(Applicable for batches admitted from 2026-27 onwards)



PRAGATI UNIVERSITY

(Established under Andhra Pradesh State Private Universities (Establishment and regulations) Act. 2016)

Surampalem, Kakinada District, Andhra Pradesh, India -533 437

COURSE STRUCTURE

INDUCTION PROGRAMME

S.No.	Course Name	Category	L	T	P	Credits
1	Physical Activities -- Sports, Yoga and Meditation, Plantation	MC	0	0	6	0
2	Career Counselling	MC	2	0	2	0
3	Orientation to all branches -- career options, tools, etc.	MC	3	0	0	0
4	Orientation on admitted Branch -- corresponding labs, tools and platforms	EC	2	0	3	0
5	Proficiency Modules & Productivity Tools	ES	2	1	2	0
6	Assessment on basic aptitude and mathematical skills	MC	2	0	3	0
7	Remedial Training in Foundation Courses	MC	2	1	2	0
8	Human Values & Professional Ethics	MC	3	0	0	0
9	Communication Skills -- focus on Listening, Speaking, Reading, Writing skills	BS	2	1	2	0
10	Concepts of Programming	ES	2	0	2	0

COURSE STRUCTURE

B.Tech. I Year – I Semester

S.No.	Category	Course Code	Title	L	T	P	C
1.	HSM	26BE101T	English for Technical Communication	3	0	0	3
2.	BSC	26BM101T	Linear Algebra and Calculus	3	0	0	3
3.	BSC	26BP104T	Applied Physics	3	0	0	3
4.	ESC	26AI101T	Computational Thinking and Problem Solving using 'C'	3	0	0	3
5.	ESC	26ME101T	Principles of Electrical and Mechanical Engineering	3	0	0	3
6.	HSM	26BE101P	English for Technical Communication and MOODLES laboratory	0	0	3	1.5
7.	BSC	26BP104P	Applied Physics Laboratory	0	0	3	1.5
8.	ESC	26AI101P	Computational Thinking and Problem Solving using 'C' Laboratory	0	0	3	1.5
9.	ESC	26ME101P	Principles of Electrical and Mechanical Engineering Laboratory	0	0	3	1.5
10.	MNC-1	26HM101T	Universal Human Values	2	0	0	0
Total				17	0	12	21

B.Tech I Year – II Semester

S.No.	Category	Course Code	Title	L	T	P	C
1.	BSC	26BM201T	Differential Equations and Vector Calculus	3	0	0	3
2.	BSC	26BC204T	Applied Chemistry	3	0	0	3
3.	PCC	26EC201T	Network Analysis	3	0	0	3
4.	ESC	26CS201T	Fundamentals of Quantum Computing	3	0	0	3
5.	BSC	26BC204P	Applied Chemistry Laboratory	0	0	3	1.5
6.	PCC	26EC201P	Network Analysis Laboratory	0	0	3	1.5
7.	ESC	26CY201P	Data Structures and Algorithms using 'C' and "Python" Laboratory	0	1	3	2.5
8.	ESC	26IT201P	IT and Electronic Workshop	0	0	2	1
9.	ESC	26AM201P	AI Tools and Applications	0	1	3	2.5
10.	MNC	26HM202P	NSS/NCC	0	0	2	0
Total				12	2	16	21