

COURSE STRUCTURE AND SYLLABUS

**For
B.Tech.**

**Department of
Mechanical Engineering**

(Applicable for batches admitted 2026-27 onwards)



PRAGATI UNIVERSITY

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

Surampalem, Kakinada District, Andhra Pradesh, India -533437

COURSE STRUCTURE

INDUCTION PROGRAMME

S.No.	Course Name	Category	L	T	P	C
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	26BP103T	Physics for Mechanical Systems	3	0	0	3
4	ESC	26AI101T	Computational Thinking and Problem Solving using C	3	0	0	3
5	HSM	26BE101P	English for Technical Communications and MOODLES Laboratory	0	0	3	1.5
6	BSC	26BP103P	Physics for Mechanical Systems Laboratory	0	0	3	1.5
7	ESC	26AI101P	Computational Thinking and Problem Solving using C Laboratory	0	0	3	1.5
8	ESC	26ME103P	Engineering Graphics	0	1	3	2.5
9	ESC	26ME104P	Design Thinking and Innovation	0	1	3	2.5
10	MNC	26CE101T	Environmental Science for Engineers	2	0	0	0
Total				14	2	15	21.5

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	26BC203T	Chemistry for Mechanical Engineers	3	0	0	3
3	ESC	26ME201T	Engineering Mechanics	3	0	0	3
4	ESC	26EE202T	Basic Electrical and Electronics Engineering	3	0	0	3
5	ESC	26BC203P	Chemistry for Mechanical Engineers Laboratory	0	0	3	1.5
6	ESC	26ME201P	Engineering Mechanics Laboratory	0	0	3	1.5
7	ESC	26EE202P	Basic Electrical and Electronics Engineering Laboratory	0	0	3	1.5
8	ESC	26ME203P	Engineering Workshop Practice	0	0	3	1.5
9	BSC	26AM201P	AI Tools and Applications	0	1	3	2.5
10	MNC	26HM202P	NSS/NCC	0	0	2	0
Total				12	1	17	20.5