COURSE STRUCTURE

For

B.Tech.

Department of Civil Engineering

(Applicable for batches admitted from 2024-25 onwards)



PRAGATI ENGINEERING COLLEGE

(An Autonomous Institution)

ADB Road, Surampalem, Kakinada District, A.P.-533 437

(Approved by AICTE, New Delhi & Permanently Affiliated to JNTUK, Kakinada) (Recognized by UGC under sections 2 (f) and 12 (b) of UGC act, 1956)

Department of Civil Engineering

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

Department of Civil Engineering

I YEAR – I SEMESTER

Sl.	Cotogowy	Course	Course Title	L	Т	P	Credits
No	Category	Code	Course Title		1		
1	BS&H	23BP101T	Engineering Physics	2	0	0	3
2	BS&H	23BM101T	Linear Algebra and Calculus	3	0	0	3
3	Engineering Science	23EE101T	Basic Electrical and Electronics Engineering	3	0	0	3
4	Engineering Science	23ME101T	Engineering Graphics	3	0	0	3
5	Engineering Science	23CS101T	Introduction to Programming	3	0	0	3
6	BS&H	23BP101P	Engineering Physics Laboratory	0	0	3	1
7	Engineering Science	23EE101P	Electrical and Electronics Engineering Workshop	0	0	2	1.5
8	Engineering Science	23CS101P	Computer Programming Laboratory	0	0	3	1.5
9	Engineering Science	23IT101P	IT Workshop	0	0	2	1
10	BS&H	23MH102P	NSS/NCC/Scouts and Guides/Community Service	0	0	1	0.5
Total Credits						20.5	

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I YEAR – II SEMESTER

Sl. No	Category	Course Code	Course Title	L	T	P	Credits
1	BS&H	23BE201T	Communicative English	3	0	0	3
2	BS&H	23BM201T	Differential equations and Vector Calculus	3	0	0	3
3	BS&H	23BC201T	Engineering Chemistry	3	0	0	3
4	Engineering Science	23CM201T	Basic Civil and Mechanical Engineering	1	0	4	3
5	Professional Core	23ME202T	Engineering Mechanics	3	0	0	3
6	Engineering Science	23ME202P	Engineering Workshop	0	0	2	1.5
7	BS&H	23BE201P	Communicative English Laboratory	0	0	3	1
8	Professional Core	23CE201P	Engineering Mechanics and Building practices Laboratory	0	0	3	1.5
9	BS&H	23BC201P	Engineering Chemistry Laboratory	0	0	2	1
10	BS&H	23MH201P	Health and wellness, Yoga and sports	0	0	1	0.5
Total Credits							19.5

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II Year I Sem

Sl. No	Category	Course Code	Course Title	L	Т	P	Credits
1	BS&H		Numerical Techniques And	3	0	0	3
			Statistical Methods				
2	HSMC		Universal human values –understanding	2	1	0	3
			harmony and Ethical human conduct				
3	Engineering		Surveying	3	0	0	3
	Science						
4	Professional		Strength of Materials	3	0	0	3
	Core						
5	Professional		Fluid Mechanics	3	0	0	3
	Core						
6	Professional		Surveying Laboratory	0	0	3	1.5
	Core						
7	Professional		Strength of Materials Laboratory	0	0	3	1.5
	Core						
8	Skill		Building Planning and Drawing	0	1	2	2
	Enhancement						
	Course						
			Total	14	2	8	20
9	Audit Course		Environmental Science	2	0	0	-

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II Year II Semester

Sl. No	Category	Course Code	Course Title	L	Т	P	Credits
1	Management		Managerial Economics and Financial	2	0	0	2
	Course-I		Analysis				
2	Engineering		Engineering Geology	3	0	0	3
	Science /						
	Basic Science						
3	Professional		Concrete Technology	3	0	0	3
	Core						
4	Professional		Structural Analysis	3	0	0	3
	Core						
5	Professional		Hydraulics & Hydraulic	3	0	0	3
	Core		Machinery				
6	Professional		Concrete Technology Laboratory	0	0	3	1.5
	Core						
7	Professional		Engineering Geology Laboratory	0	0	3	1.5
	Core						
8	Skill		Remote Sensing& Geographical	0	1	2	2
	Enhancement		Information Systems				
	course						
9	Engineering		Design Thinking &	1	0	2	2
	Science		Innovation				
		1	Total	15	1	10	21
10	Mandatory		Building materials and	3	0	0	-
	course		Construction				
	Mandator	y Communi	ty Service Project Internship of 08 week	s dura	tion	duri	ng
	·	-	summer vacation				=

summer vacation