



SANDIP
UNIVERSITY

School of Engineering & Technology

Department of Civil Engineering

Course – M.Tech Structural Engineering
Semester – I

Sr. No.	Core	Course Code	Course Name	Teaching Scheme (Hrs./Week)				Examination Scheme				Total Marks
				L	T	P	C	Formative Assessment CIA		Summative Assessment ESE		
								Course	Lab	Course	Lab	
01	PC	PSE101	Structural Dynamics	4	--	--	4	50	--	100	--	100
02	PC	PSE102	Advanced Solid Mechanics	4	--	--	4	50	--	100	--	100
03	PC	PSE103	Numerical Methods	4	--	--	4	50	--	100	--	100
04	PC	17RDP101	Research Methodology	4	--	--	4	50	--	100	--	100
Elective – I												
05	PE	PSEE01	Design of Bridge Structures	4	--	--	4	50	--	100	--	100
06	PE	PSEE02	Wind Resistant Design of Structures									
07	PE	PSEE03	Structural Health Monitoring									
08	PC	PSE111	Lab Practice-I	--	--	4	2	--	50	--	50*	100
TOTAL				20	--	4	22	250	50	500	50	600

CIA: Continuous Internal Assessment L: Theory Lecture T: Tutorial P: Practical TH: Theory Exam.	#: Internship for 15 days. *: Oral Examination UC: University Core PC: Programme Core PE: Programme Elective	CIA	Weightage	Description
		CIA 1	10%	Home Assignment
		CIA 2	20%	Mid-Term Exam (MTE)
		CIA 3	10%	Research Based Learning (Seminar Presentation)
		CIA 4	10%	Behavioural Attitude + General Discipline (Theory +Practical Attendance)
		CIA TOTAL	50%	
Written Examination - End Semester Exam (ESE)			50%	
Total			100%	



S. Pathi

BoS Chairman Civil Engineering



SANDIP
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School of Engineering & Technology

Department of Civil Engineering

Course – M.Tech Structural Engineering
Semester – II

Sr. No.	Core	Course Code	Course Name	Teaching Scheme (Hrs./Week)				Examination Scheme				Total Marks
				L	T	P	C	Formative Assessment CIA		Summative Assessment ESE		
								Course	Lab	Course	Lab	
01	PC	PSE201	Finite Element Methods in Structural Engineering	4	--	--	4	50	--	100	--	100
02	PC	PSE202	AdvancedStructural Analysis	4	--	--	4	50	--	100	--	100
03	PC	PSE203	Earthquake Analysis and Design	4	--	--	4	50	--	100	--	100
04	PC	PSE204	Design of Advance concrete Structures	4	--	--	4	50	--	100	--	100
Elective – II												
05	PE	PSEE04	Advance Design of Steel Structures	4	--	--	4	50	--	100	--	100
06	PE	PSEE05	Theory of Plates and Shells									
07	PE	PSEE06	Strengthening and Retrofitting of Structures									
08	PC	PSE211	Lab Practice-II	--	--	4	2	--	50	--	50*	100
TOTAL				20	--	4	22	250	50	500	50	600

CIA: Continuous Internal Assessment L: Theory Lecture T: Tutorial P: Practical TH: Theory Exam.	#: Internship for 15 days. *: Oral Examination UC: University Core PC: Programme Core PE: Programme Elective	CIA	Weightage	Description
		CIA 1	10%	Home Assignment
		CIA 2	20%	Mid-Term Exam (MTE)
		CIA 3	10%	Research Based Learning (Seminar Presentation)
		CIA 4	10%	Behavioural Attitude + General Discipline (Theory +Practical Attendance)
		CIA TOTAL	50%	
Written Examination - End Semester Exam (ESE)			50%	
Total			100%	



G.Patil

BoS Chairman Civil Engineering



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School of Engineering & Technology

Department of Civil Engineering

**Course – M.Tech Structural Engineering
Semester – III**

Sr. No.	Core	Course Code	Course Name	Teaching Scheme (Hrs./Week)				Examination Scheme				Total Marks
				L	T	P	C	Formative Assessment CIA		Summative Assessment ESE		
								Course	Lab	Course	Lab	
01	PC	PSE311	Project Stage-I	--	--	10	10	--	50	--	50	100
02	PC	PSE312	Project Stage-II	--	--	10	10	--	50	--	50	100
TOTAL				--	--	20	20	--	100	--	100	200

CIA: Continuous Internal Assessment L: Theory Lecture T: Tutorial P: Practical TH: Theory Exam.	#: Internship for 15 days. *: Oral Examination UC: University Core PC: Programme Core PE: Programme Elective	CIA	Weightage	Description
		CIA 1	10%	Home Assignment
		CIA 2	20%	Mid-Term Exam (MTE)
		CIA 3	10%	Research Based Learning (Seminar Presentation)
		CIA 4	10%	Behavioural Attitude + General Discipline (Theory +Practical Attendance)
		CIA TOTAL	50%	
Written Examination - End Semester Exam (ESE)			50%	
Total			100%	



Spatil

BoS Chairman Civil Engineering



SANDIP
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School of Engineering & Technology

Department of Civil Engineering

Course – M.Tech Structural Engineering
Semester – IV

Sr. No.	Core	Course Code	Course Name	Teaching Scheme (Hrs./Week)				Examination Scheme				Total Marks
				L	T	P	C	Formative Assessment CIA		Summative Assessment ESE		
								Course	Lab	Course	Lab	
01	PC	PSE411	Project Stage-III	--	--	10	10	--	50	--	50	100
02	PC	PSE412	Final Presentation and Viva Voce	--	--	10	10	--	100	--	100	200
TOTAL				--	--	20	20	--	150	--	150	300

CIA: Continuous Internal Assessment L: Theory Lecture T: Tutorial P: Practical TH: Theory Exam.	#: Internship for 15 days. *: Oral Examination UC: University Core PC: Programme Core PE: Programme Elective	CIA	Weightage	Description
		CIA 1	10%	Home Assignment
		CIA 2	20%	Mid-Term Exam (MTE)
		CIA 3	10%	Research Based Learning (Seminar Presentation)
		CIA 4	10%	Behavioural Attitude + General Discipline (Theory +Practical Attendance)
		CIA TOTAL	50%	
Written Examination - End Semester Exam (ESE)			50%	
Total			100%	

G. Pahl

BoS Chairman Civil Engineering

