M. Tech Construction Management

Programme Outcomes (PO):

PO1: An ability to independently carry out research /investigation and development work to solve practical problems.

PO2: An ability to write and present a substantial technical report/document.

PO3: Students should be able to demonstrate a degree of mastery over the area as per the specialization of the program. The mastery should be at a level higher than the requirements in the appropriate bachelor program.

monitoring of construction activities. PO4: Students learn timely and cost-effective project delivery, with a stronghold of project management skills, including planning, execution, and

professional skills to solve multidisciplinary problems in construction technology and management. PO5: Effectively communicate complex engineering activities through technical reports and presentations, while demonstrating advanced

sustainable development through the use of eco-friendly materials and technologies. PO6: Invent and implement feasible, optimal solutions to real-life engineering problems by adhering to professional codes of conduct and promoting



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Scheme of Instruction for First Year of M. Tech. (PG) Degree in Construction Management Semester – I (W.E.F. AY. 2025-26)

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No.	Category	Code	Course Title	-	-		P Contact	Credits		EXAM SCHEME	HEME	
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_	PCC	CM2101	CM2101 Construction Project Management	ω	i	1	ω	3	20	20	60	
2	PCC	CM2102	CM2102 Construction Equipment	w			٠,	2	30			
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6	PCC	CM2106	CM2106 Laboratory 1 (Construction			4			0.7	20	00	100
			Project Management)			4	4	2		25	25	50
7	PEC	CM2107	CM2107 Laboratory 2 (Based on Elective I & II)		•	4	4	2		50		50
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9	MNC	A1171*9	Audit Course I	,			U	3	20	20	60	100
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L- Lecture

T-Tutorial

P-Practical

MSE- Mid Semester Examination

ISE- In Semester Evaluation

ESE- End Semester Examination (For Laboratory End Semester performance)

* Program Elective- I and II, Audit Course I, Open Elective list is provided at the end of structure.





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Scheme of Instruction for First Year of M. Tech. (PG) Degree in Construction Management Semester - II (W.E.F. AY. 2025-26)

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L- Lecture

T-Tutorial

P-Practical

MSE- Mid Semester Examination

ISE- In Semester Evaluation

ESE- End Semester Examination (For Laboratory End Semester performance)

^{*-} Program Elective- III, IV and V, Audit Course II list is provided at the end of structure.



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Scheme of Instruction for Second Year of M. Tech. (PG) Degree in Construction Management Semester – III (W.E.F. AY. 2025-26)

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on recent technologies can be opted by candidate. sem-IV of second year M.Tech will be considered incomplete without passing this mandatory MOOC course. 2. In Case, the course offered online are not completely relevant with the topic of dissertation then any course suggested by NASSCOM 1. The MOOCs course is mandatory for semester-III in second year M.Tech for all students, and a candidate Dissertation Phase-II of

MSE- Mid Semester Examination T-Tutorial

P-Practical

ESE- End Semester Examination (For Laboratory End Semester performance) ISE- In Semester Evaluation



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Scheme of Instruction for Second Year of M. Tech. (PG) Degree in Construction Management Semester – IV (W.E.F. AY. 2025-26)

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	200	200	. 500	300	10101	TOTAL			

Lecture

T-Tutorial

P-Practical

MSE- Mid Semester Examination

ISE- In Semester Evaluation

ESE- End Semester Examination (For Laboratory End Semester performance)



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SCHEME OF INSTRUCTION & SYLLABI

Scheme of Instruction for First Year and Second Year of M. Tech. (PG) Degree in Construction Management

Construction Management Semester – I to IV (W.E.F. AY. 2025-26)

List of Electives

	Human Resource Repair and R Development in Construction of Structures	Methods and Optimization Techniques	Semester-I	T TOST WILL EJECTIVE I
CM 2134 Ground Improvement Techniques	CM 2124 Repair and Rehabilitation of Structures	CM 2114 Advanced Construction Techniques	Semester - I	Program Elective II
	CM 2223 Advanced Construction Materials and Building Services	CM 2213 Construction Contracts and Legal Aspects	Semester - II	Program Elective III
	CM 2224 MIS for Construction Management	CM 2214 Cost Management of Engineering Projects	Semester - II	Program Elective IV
	CM 2225 Environment Impact Assessment	CM 2215 Entrepreneurship in Construction	Semester - II	Dragon Floring V

Open Elective Semester - I OE2118: Business Analytics OE2128: Industrial Safety	Audit Course I Semester – I AU2119: Research Paper Writing AU 2129: Disaster Management	Audit Course II Semester – II AU 2219: Constitution of India AU 2229: Pedagogy Studies
OE2138: Operations Research	AU 2129: Disaster Management AU 2139: Sanskrit for Technical Knowledge	AU 2229: Pedagogy Studies AU 2239: Stress Management
OE2148: Cost Management of Engineering Projects	AU 2149: Value Education	AU 2249: Personality Development through
OE2158: Composite Materials		Life Enlightenment Skills
OE 2168 :Waste to Energy		



DP I DP II Total

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Course Category
Credits

PC 24

16

PCE

MLC 02

MP/IT 02

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