

COURSE STRUCTURE
for
M.TECH. DEGREE
in
CONSTRUCTION TECHNOLOGY AND MANAGEMENT
(Applicable from the academic session 2026-2027)



Dr. B. C. Roy Engineering College

An Autonomous Institution

Approved by: All India Council for Technical Education (AICTE)

*Affiliated to: Maulana Abul Kalam Azad University of Technology, West Bengal
(Formerly Known as -WBUT)*

Jemua Road, Durgapur, West Bengal, India, 713206

The course structure and syllabus is finalized as per the resolution of the 3rd Board of Studies meeting held on 03rd Decemeber, 2025 and finally approved by university vetting committee (constituted vide Notification No. IC-302/2026/5092 dated 01.04.2026) on 19th May, 2026


H.O.D. / C.E.
Dr. B. C. Roy Engrg College, Durgapur
Signature of the BoS Chairman

Semester-Wise Breakup of Credit

Sem1	Sem2	Sem3	Sem4	Total
26	26	24	24	100

M. Tech., 1stYr (1st Semester)

Theory						
Sl. No.	Paper Name	Paper Code	L	T	P	Credit
1	Construction Technology and Materials	CEM-101	3	1	0	4
2	Project Management	CEM-102	3	1	0	4
3	Construction Planning and Scheduling	CEM-103	3	1	0	4
4	Safety and Quality Management in Construction	CEM-104	3	1	0	4
5	Condition Assessment and Health Monitoring of Structures	CEM-105	3	1	0	4
	Total Theory		15	5	0	20
Practical						
1	Material Testing Laboratory	CEM-191	0	0	4	2
2	Project Planning by Softwares	CEM-192	0	0	4	2
3	Research Methodology	CEM-181	0	2	0	2
	Total Practical		0	0	12	6
	Total in 1 st Semester		15	5	12	26

M. Tech. 1stYr (2nd Semester)

Theory						
Sl. No.	Paper Name	Paper Code	L	T	P	Credit
1	Construction Equipment and Methods	CEM-201	3	1	0	4
2	Contracts and Tendering	CEM-202	3	1	0	4
3	Repair and Retrofitting of Structures	CEM-203	3	1	0	4
Elective I						
4	Advanced Concrete Technology	CEM-204	3	1	0	4
5	Pavement and Foundations	CEM-205	3	1	0	4
6	Construction of Bridge and Industrial Structures	CEM-206	3	1	0	4
7	Advanced Quantity Surveying	CEM-207	3	1	0	4
Elective II						
8	Construction Economics and Finance	CEM-208	3	1	0	4
9	Human Resource Management in Construction	CEM-209	3	1	0	4
10	Construction Marketing and Business Development	CEM-210	3	1	0	4
11	Sustainable Techniques in Construction Technology	CEM-211	3	1	0	4
	Total Theory		15	5	0	20
Practical						
2	Quantity Surveying	CEM-291	0	0	4	2
3	Dissertation on Literature review	CEM-282	0	2	0	2
	Total Practical		0	0	12	6
	Total of 2 nd Semester		15	5	12	26

Total Credit in 1st Year: 5

M. Tech., 2nd Yr (3rd Semester)

Theory						
Sl. No.	Paper Name	Paper Code	L	T	P	Credit
1	Disaster Mitigation in Engineering	CEM-301	3	1	0	4
2	Dissertation with Evaluation or Industrial / Research Internship with Evaluation Part I	CEM-391	0	0	0	20
Total in 3 rd Semester			3	1	0	24

M. Tech. 2nd Yr (4th Semester)

Theory						
Sl. No.	Paper Name	Paper Code	L	T	P	Credit
1	Dissertation with Evaluation or Industrial / Research Internship with Evaluation Part II	CEM-491	0	0	0	24
Total of 4 th Semester			0	0	0	24

Total Credit in 2nd Year: 48

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