

**Sardar Patel College of Engineering Andheri (West), Mumbai 400 058**  
Year: 2017-18

**M.Tech. (Civil) with Construction Management Courses(Semester – I)Academic year 2017-18**

Sr. No.	Course	Code	Course Plan for Each Week (Hrs)			Credits	Credit system of evaluation Credit system						Total
			Lectures	Laboratory	Tutorial		T1	T2	End Semester		End Semester Weightage (%)	In semester Credit system of evaluation	
									Points	Duration			
1	Construction Management and Organisation	MTCM101	3	--	--	3	20	20	100	3	60	--	100
2	Applied Statistics and Quantitative Techniques	MTCM102	3	--	2	4	20	20	100	3	60	25	125
3	Advanced Construction Techniques	MTCM103	3	--	--	3	20	20	100	3	60	--	100
4	Accounting and Finance Management	MTCM104	3	--	2	4	20	20	100	3	60	25	125
5	Elective – I	MTCM105 to MTCM110	3	--	2	4	20	20	100	3	60	25	125
6	Advanced Material Testing Lab	MTCM121	--	2	--	1	--	--	--	--	--	50#	50
7	Geo Informatics Lab	MTCM123	--	2	--	1	--	--	--	--	--	50#	50
9	Seminar – I	MTCM121	--	--	4	2	--	--	--	--	--	125	125
<b>Total</b>			<b>15</b>	<b>4</b>	<b>10</b>	<b>22</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>800</b>

**NOTE - Test 1, Test 2 and end semester weightage points will be added and shown as the theory points in the mark sheet. Duration of Test 1, Test 2 is of 1 hour. For passing, Student must secure minimum 50% points in each course with all heads of passing taken together and minimum 50% points in the end semester examination.**

# Assessment criteria for laboratory/Tutorial work. i.e. weightage for assessment shall be as follows:

- (i) Attendance in Laboratory/Tutorial = 20%,
- (ii) Journal/Drawing sheet/Sketch book = 40%,
- (iii) MCQ/Oral/Test = 40%.

Sr. No.	Code	Elective –I
1.	MTCM105	Safety Management
2.	MTCM107	Repair, Rehabilitation and Retrofitting Techniques
3.	MTCM109	Disaster Management

Sr. No.	Code	Elective - I
1.	MTCM106	Construction materials
2.	MTCM108	Management of Infrastructure Services
3.	MTCM110	Construction Marketing

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**M.Tech. (Civil) with Construction Management Courses (Semester – II) Academic year 2017-18**

Sr. No.	Course	Code	Course Plan for Each Week (Hrs)				Credits	Credit system of evaluation						Total
			Lectures	Laboratory	Tutorial	T1		T2	End Semester		End Semester Weightage (%)	In semester Credit system of evaluation		
									Points	Duration				
1	Legal Aspects in Construction	MTCM151	3	--	--	3	20	20	100	3	60	--	100	
2	Management of Construction Resources	MTCM152	3	--	--	3	20	20	100	3	60	--	100	
3	Project Monitoring and Control	MTCM153	3	--	2	4	20	20	100	3	60	25	125	
4	Project Appraisal, Planning and Scheduling	MTCM154	3	--	2	4	20	20	100	3	60	25	125	
5	Elective – II	MTCM155 to MTCM 170	3	--	2	4	20	20	100	3	60	25	125	
6	Building Information Modeling Lab	MTCM172	--	2		1						50#	50	
7	Project Management Lab	MTCM173	--	2		1						50#	50	
6	Mini Project + Seminar II	MTCM171	--	--	4	2	--	--	--	--	--	125	125	
<b>Total</b>			<b>15</b>	<b>4</b>	<b>10</b>	<b>22</b>	<b>--</b>	<b>--</b>	<b>---</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>800</b>	

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**Elective – II Courses**

<b>Sr. No.</b>	<b>Code</b>	<b>Elective -II</b>
1.	MTCM155	Risk Management
2.	MTCM157	Value Engineering
3.	MTCM159	International Construction Business

<b>Sr. No.</b>	<b>Code</b>	<b>Elective – II</b>
1.	MTCM156	International Contracting
2.	MTCM158	Management of Housing Projects
3.	MTCM160	Total Quality Management in Construction

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**Credit system for M. Tech. (Civil) with Construction Management Courses (Semester – III) Academic year 2017-18**

Sr. No	Course	Code	Course Plan for Each Week (Hrs)			Credits	Evaluation (Points)		Total
			Lectures	Lab	Tutorial		Report	Seminar	
1	Seminar on Literature Review	MTCM176	--	--	4 <sup>#</sup> +12 <sup>\$</sup>	8	50*	50*	100
2	Dissertation Stage-I Seminar	MTCM177	--	--	2 <sup>#</sup> +14 <sup>\$</sup>	8	50*	50*	100
<b>Total</b>			<b>--</b>	<b>--</b>	<b>6<sup>#</sup>+26<sup>\$</sup></b>	<b>16</b>	<b>--</b>	<b>--</b>	<b>200</b>

\* Examined by supervisor and at least one internal examiner. <sup>#</sup>Contact hours with mentor/supervisor/guide, <sup>\$</sup>Self learning hours

For passing, Student must secure minimum 50% points in each Course with all headof passing taken together and minimum 50% points in the end semester examination.

**Credit system for M. Tech. (Civil) with Construction Management Courses (Semester – IV) Academic year 2017-18**

Sr. No	Course	Code	Course Plan for Each Week (Hrs)			Credits	Evaluation (Points)		Total
			Lectures	Lab	Tutorial		Report	Seminar	
1	Dissertation Stage-II Seminar (Pre-Synopsis)	MTCM178	--	--	4 <sup>#</sup> +12 <sup>\$</sup>	8	50*	50*	100
2	Dissertation & Viva-Voce	MTCM179	--	--	6 <sup>#</sup> +18 <sup>\$</sup>	12	100**	50**	150
<b>Total</b>			<b>--</b>	<b>--</b>	<b>10<sup>#</sup>+30<sup>\$</sup></b>	<b>20</b>	<b>--</b>	<b>---</b>	<b>250</b>

\* Examined by supervisor and at least one internal examiner

\*\* Examined by supervisor and one approved external examiner. <sup>#</sup>Contact hours with mentor/supervisor/guide, <sup>\$</sup>Self learning hours. For passing, Student must secure minimum 50% points in each Course with all headof passing taken together and minimum 50% points in the end semester examination.