Walchand College of Engineering

(Government Aided Autonomous Institute)

Curriculum Structure and Credit System

Second Year M. Tech. (Construction Management)

Applicable from A.Y. 2026–27 and Onwards

Option A

Semester 3 A

Sr. No.	Course Particulars			Course Delivery					Credits	Assessments			
	Category	Code	Name	L	T	I	P	Hrs		ISE/LA1	MSE/LA2	ESE	Ext.
1	PR	1CM691	Dissertation Phase-I	0	0	0	24	24	12	30	30	40	OE
2	PE	Refer List	Online/NPTEL/Swayam Course/In-house	3	0	0	0	3	3	20	30	50	--
3	PE	Refer List	Online/NPTEL/Swayam Course/In-house	3	0	0	0	3	3	20	30	50	--
			Totals	6	0	0	24	30	18				

Semester 4 A

Sr. No.	Course Particulars			Course Delivery					Credits	Assessments			
	Category	Code	Name	L	T	I	P	Hrs		ISE/LA1	MSE/LA2	ESE	Ext.
1	PR	1CM692	Dissertation Phase-II	0	0	0	34	34	17	30	30	40	OE
2	PC	1CM645	Internship	0	0	0	4	4	2	0	0	100	--
3	PC	1CM646	Techno-Socio Activity	0	0	0	2	1	1	0	0	100	--
			Totals	0	0	0	40	39	20				

Bucket for NPTEL / Swayam Course / In-house courses

Bucket for NPTEL courses

Sr. No	Code	Name of NPTEL course	Institute
1	1CM611	Optimization Methods for Civil Engineering	IIT Guwahati
2	1CM612	Remote Sensing Principles and Applications	IIT Bombay

Note: Students have to opt for any one courses from the above-mentioned categories i.e., 1) NPTEL/Swayam 2) External resources and 3) In house.

The Courses that can be offered by External resources

Code	List of Courses	Credit
1CM613	Construction Project Communications	3
1CM614	Site Administration and Control	3
1CM615	Project Marketing and Business Development	3

Courses that can be offered In-house

Code	List of Courses	Credit
1CM616	Lean Construction Management	3
1CM617	Green building and Sustainable development	3

PG Co-ordinator | DAC/Secretary, BoS | Head, Dept./ Chairman, BoS | Dean Academics

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Option B

Semester 3 B

Sr. No.	Course Particulars			Course Delivery					Credits	Assessments			
	Category	Code	Name	L	T	I	P	Hrs		ISE/LA1	MSE/LA2	ESE	Ext.
1	PR	1CM693	Dissertation Phase-I	0	0	0	22	22	11	30	30	40	OE
2	PE	Refer List	Online/NPTEL/Swayam (12 Week Postgraduate Level) */ External Resources/In-house	3	0	0	0	3	3	*	*	*	
3	PR	1CM647	Mini Project 1	0	0	0	4	4	2	30	30	40	
	PR	1CM648	Mini Project 2	0	0	0	4	4	2	30	30	40	
			Totals	3	0	0	30	33	18				

Semester 4 B

Sr. No.	Course Particulars			Course Delivery					Credits	Assessments			
	Category	Code	Name	L	T	I	P	Hrs		ISE/LA1	MSE/LA2	ESE	Ext.
1	PR	1CM692	Dissertation Phase-II	0	0	0	34	34	17	30	30	40	OE
2	PC	1CM645	Internship	0	0	0	4	4	2	-		100	
3	PC	1CM646	Techno-Socio Activity	0	0	0	2	1	1	-		100	
			Totals	0	0	0	40	39	20				

Bucket for NPTEL courses

Sr. No	Code	Name of NPTEL course	Institute
1	1CM611	Optimization Methods for Civil Engineering	IIT Guwahati
2	1CM612	Remote Sensing Principles and Applications	IIT Bombay

Note: Students have to opt for any one courses from the above-mentioned categories i.e., 1) NPTEL/Swayam 2) External resources and 3) In house.

The Courses that can be offered by External resources

Code	List of Courses	Credit
1CM613	Construction Project Communications	3
1CM614	Site Administration and Control	3
1CM615	Project Marketing and Business Development	3

Courses that can be offered In-house

Code	List of Courses	Credit
1CM616	Lean Construction Management	3
1CM617	Green building and Sustainable development	3

List of Software for Mini Project I & II

Sr. No.	Software Name	Sr. No.	Software Name	Sr. No.	Software Name	Sr. No.	Software Name
1	Navisworks	4	Synchro 4D	7	QGIS	10	One Click LCA
2	Autodesk Infraworks	5	Autodesk Forma	8	ArcGIS	11	Open LCA
3	Bexel Manager	6	Microsoft Excel (Advanced)	9	Pix4D/ Surveyan	12	Matlab

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