



**5 Years Integrated B.Tech. & M. Tech. Curriculum and
Syllabus for Civil Engineering (CE)**

Ninth Semester

THEORY

Sl No.	Code Number	Subject	Contact Hours				Credit Point
			L	T	P	Total	
1	TIU-PMA-T215	Advanced Numerical Methods	4	0	0	4	4
2	TIU-PCE-E2XY***	Elective – III	4	0	0	4	4
3	TIU-PCE-E2XY***	Elective – IV	4	0	0	4	4
Total Theory							12

B. PRACTICAL

4	TIU-PCE-L105	Structural Engineering Laboratory	0	0	3	3	2
5	TIU-PCE-L107	Advanced Software Laboratory	0	0	3	3	2
Total Practical							4

C. SESSIONAL

6	TIU-PCE-S109	Term Paper	0	2	0	0	4
7	TIU-PCE-S111	Seminar on Term Paper	0	0	0	0	2
Total Sessional							6

Total of Semester

18 22

**** XY to be replaced by 05/07/09/11/13/15/17/19/21/23 or any other number depending upon the subject offered in a particular year (Vide the Lists of Elective subjects for Elective – III and Elective – IV)**

List of Elective Subjects

Elective – III

TIU-PCE-E205 – Pre-stressed
Concrete TIU-PCE-E207 – Bridge
Engineering
TIU-PCE-E209 – Geotechnics for Highway
Engineering TIU-PCE-E211 – Solid Waste
Management
TIU-PCE-E213 – Advanced RCC Design

Elective – IV

TIU-PCE-E215 – Theory of Elasticity and
Plasticity TIU-PCE-E217 – Water Supply and
Treatment
TIU-PCE-E219 – Advanced Foundation
Engineering TIU-PCE-E221 – Soil-Structure
Interaction Analysis TIU-PCE-E223 –
Environmental Impact Assessment