

Appendix-A

The following courses will be offered to the under-graduate Civil Engineering students of
L1TI, L2TI, L3TI, L3TII & L4TII

Level	Term	Course No.	Course Title	Credit Hours	Status of Course	Selection Basis/ Remarks
1	I	CE 101	Analytic Mechanics	3.00	C	
		Chem 103	Chemistry I	3.00	C	
		Math 137	Differential and Integral Calculus, Matrices	3.00	C	
		Phy 101	Physical Optics, Waves and Oscillation, Heat and Thermodynamics	3.00	C	
		Hum 355	Sociology	2.00	(Sec B & C)	Select one
		Hum 375	Government	2.00	(Sec A)	
		CE 100	Civil Engineering Drawing	1.50	C	
		Chem 114	Inorganic Quantitative Analysis	1.50	C	
		Phy 102	Physics Laboratory	1.50	C	
			Total	18.50		

Level	Term	Course No.	Course Title	Credit Hours	Status of Course	Selection Basis/ Remarks
2	I	CE 201	Engineering Materials	3.00	C	
		CE 203	Engineering Geology and Geomorphology	3.00	C	
		CE 211 *	Mechanics of Solids I	3.00	C	
		Hum 353	Accounting	2.00	C	
		Math 237	Laplace Transform and Vector Analysis	3.00	C	
		CE 200	Details of Construction	1.50	C	
		CE 202	Materials Sessional	1.50	C	
		CE 204	Computer Programming Sessional	1.50	C	
		CE 210	Architectural, Engineering and Planning Appreciation	1.50	C	
			Total	20.00		

Level	Term	Course No.	Course Title	Credit Hours	Status of Course	Selection Basis/ Remarks
3	I	CE 301	Professional Practices and Communication	3.00	C	
		CE 311 *	Structural Analysis	4.00	C	
		CE 315	Design of Concrete Structures I	3.00	C	
		CE 331	Environmental Engineering I	3.00	C	
		CE 341 *	Principles of Soil Mechanics	4.00	C	
		CE 302	Professional Practices and Communication Sessional	1.50	C	
		CE 332	Environmental Engineering Laboratory	1.50	C	
		CE 342	Geotechnical Engineering Laboratory	1.50	C	
			Total	21.50		

Level	Term	Course No.	Course Title	Credit Hours	Status of Course	Selection Basis/ Remarks
3	II	CE 104	Practical Surveying	1.50	C	
		CE 317 *	Design of Concrete Structures II	3.00	C	
		CE 319	Design of Steel Structures	3.00	C	
		CE 333	Environmental Engineering II	4.00	C	
		CE 351	Transportation Engineering I: Transportation Planning & Traffic Engineering	3.00	C	
		WRE 311	Open Channel Flow	4.00	C	
		CE 316	Bridge Design Sessional	1.50	C	
		CE 320	Steel Structures Design Sessional	1.50	C	
		WRE 312	Open Channel Flow Sessional	1.50	C	
			Total	23.00		

Level	Term	Course ID	Course Number, Title and Credit Hour/Week	Selection Basis/Remark	
4	II		CE 104 Practical Surveying (1.5)	C	
			CE 400 Project and Thesis (1.5)	C	
			CE 403 Socio-economic Aspects of Development Projects (3.0)	C	
			CE 404 Capstone Projects (3.0)	C	
		S1 S2 S3 S4	CE 413 Introduction to Steel-Concrete Composite Structures (2.0) CE 415 Prestressed Concrete (2.0) CE 421 Dynamics of Structures (2.0) CE 419 Introduction of Finite Element Method (2.0)	S1 or S2 and S3 or S4	
		E1 E2 E3	CE 433 Solid and Hazardous Waste Management (2.0) CE 435 Environmental Pollution Management (2.0) CE 437 Environmental and Sustainable Management (2.0)	E1+E2 or E3+E2	
		G1 G2 G3	CE 443 Earth Retaining Structures (2.0) CE 445 Elementary Soil Dynamics (2.0) CE 447 Soil-Water Interaction (2.0)	G1+G2 or G1+G3	
		T1 T2	CE 455 Transportation Engineering IV: Pavement Management, Drainage and Airport (2.0) CE 457 Transportation Engineering V: Urban Transportation Planning and Management (2.0)	T1+T2	
					Total 17.0 Credits

C: Compulsory; O: Optional

*: Registration of this course requires obtaining minimum F grade in its pre-requisite course.