

2012 Undergraduate Curriculum for Civil Engineering (Construction and Engineering Management) (I)

Course Number	Course Title	Assessment	Credits	Instruction Hour Allocation					Credits Distribution for Semesters																Responsible Unit
				Total Hrs	Lec	Lab	Practice	Recitation	1	I	2	II	3	III	4	IV	5	V	6	VI	7	VII	8		
									19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W	16 W		
0000732	Ethical Conduct and Fundamentals of Law	General Assessment	3	48	32	0	16		3														Department of Basic Science		
0000735	Introduction to Philosophy	General Assessment	3	48	48	0	0					3											Department of Basic Science		
0001416	Fundamentals of Chinese Sociology	General Assessment	4	64	48	0	16							4									Department of Basic Science		
0000733	Modern Chinese History	General Assessment	2	32	32	0	0				2												Department of Basic Science		
0001251	College English (Band One)	Exam	4	64	64	0	0		4														Department of Basic Science		
0001252	College English (Band Two)	Exam	4	64	64	0	0				4												Department of Basic Science		
0000067	College English (Band Three)	Exam	4	64	64	0	0					4											Department of Basic Science		
0000068	College English (Band Four)	Exam	4	64	64	0	0						4										Department of Basic Science		
0000442	Physical Education-1	General Assessment	1	32	32	0	0		1														Department of Basic Science		
0000447	Physical Education-2	General Assessment	1	32	32	0	0				1												Department of Basic Science		
0000448	Physical Education-3	General Assessment	1	32	32	0	0					1											Department of Basic Science		
0000449	Physical Education-4	General Assessment	1	32	32	0	0						1										Department of Basic Science		
0000064	University Physics -1	Exam	4	64	64	0	0				4												Department of Basic Science		
0000065	University Physics -2	Exam	4	64	64	0	0					4											Department of Basic Science		
0000141	Calculus (Engineering)-1	Exam	5.5	99	64	0	0	35	5.5														Department of Basic Science		
0000142	Calculus (Engineering)-2	Exam	5.5	99	64	0	0	35			5.5												Department of Basic Science		
0000505	Linear Algebra (Engineering)	Exam	3	54	48	0	0	6			3												Department of Basic Science		
0000133	Probability and Statistics (Engineering)	General Assessment	3	54	50	0	0	4				3											Department of Basic Science		
0000295	Fundamentals of National Defense	General Assessment	2	32	32	0	0					2											Students' Affairs Office		
University Requirements		Sub-total	59	1042	930	0	32	80	13.5	0	19.5	2	15	0	9	0									
0001424	Freshmen Seminar Course	General Assessment	1	16	16				1														Department of Architecture and Environment		
0001132	Engineering Chemical	General Assessment	3	48	40	8	0		3														Department of Architecture and Environment		

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									19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W	16 W		
0000459	Introduction to Civil Engineering(Chinese/English)	General Assessment	1.5	24	24	0	0		1.5														Department of Architecture and Environment		
0000929	Graphing of Civil Engineering I	Exam	3	48	48	0	0		3														Department of Architecture and Environment		
0000153	Engineering Surveying	Exam	3	48	42	6	0							3									Department of Architecture and Environment		
0000082	Electrical Engineering	General Assessment	3.5	56	42	14	0							3.5									Department of Information Management		
0000962	Theoretical Mechanics	General Assessment	2	32	32	0	0				2												Department of Architecture and Environment		
0000963	Mechanics of Materials	Exam	3	48	48	0	0						3										Department of Architecture and Environment		
0000964	Structural Mechanics	Exam	4	64	64	0	0							4									Department of Architecture and Environment		
0000126	Housing Architectonics	General Assessment	3.5	56	56	0	0							3.5									Department of Architecture and Environment		
0001020	Civil Engineering Materials	Exam	3	48	48	0	0						3										Department of Architecture and Environment		
0000138	Reinforced Concrete Structures	Exam	4	64	64	0	0								4								Department of Architecture and Environment		
0001022	Soil Mechanics and Foundations	Exam	4	64	56	8	0								4								Department of Architecture and Environment		
0001023	The Basic Principle of Steel Structure	Exam	3	48	48	0	0								3								Department of Architecture and Environment		
Discipline Requirements		Sub-total	41.5	664	628	36	0	0	8.5	0	2	0	6	0	14	0	11	0	0	0	0	0			
0000296	Practices of National Defense	General Assessment	1	30	0	0	30					1											Students' Affairs Office		
0007069	Social Practices	General Assessment	2	48	0	0	48								2								Department of Basic Science		
0000366	Cognitive Practice	General Assessment	1	30	0	0	30						1										Department of Basic Science		
0000954	Machine Shop Training A	General Assessment	1	30	0	0	30					1											College of Mechanical Engineering and Applied Electronics		
0000052	Engineering Measuring Practice	General Assessment	3	90	0	0	90								3								Department of Architecture and Environment		
0001421	Physics Laboratory -1	General Assessment	1	24	0	24	0				1.0												Department of Basic Science		
0001423	Physics Laboratory -2	General Assessment	1.5	36	0	36	0						1.5										Department of Basic Science		
0000080	Design of Soil Mechanics and Foundations	General Assessment	1	30		0	30									1							Department of Architecture and Environment		
0000127	Design of Housing Architectonics	General Assessment	1	30		0	30							1									Department of Architecture and Environment		
0001021	Experiment of Civil Engineering Materials	General Assessment	1	24	0	24	0						1										Department of Architecture and Environment		
0001151	Design of Reinforced Concrete Structures	General Assessment	1	30		0	30									1							Department of Architecture and Environment		

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				Total Hrs	Lec	Lab	Practice	Recitation	1	I	2	II	3	III	4	IV	5	V	6	VI	7	VII	8		
									19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W	16 W		
0001057	Design of Civil Engineering Construction	General Assessment	1	30		0	30											1					Department of Architecture and Environment		
0001058	Design of Project Budget	General Assessment	1	30		0	30											1					Department of Architecture and Environment		
0001059	Experiment of Material Mechanic	General Assessment	1	24	0	24	0					1											Department of Architecture and Environment		
0001479	Design of Building Service	General Assessment	1	30	0	0	30									1							Department of Architecture and Environment		
0001536	Steel Structure Design	General Assessment	1	30	0	0	30									1							Department of Architecture and Environment		
0000157	Design of Construction Schedule Control	General Assessment	1	30	0	0	30													1			Department of Architecture and Environment		
0001418	Professional Practice	General Assessment	4	120	0	0	120												4				Department of Architecture and Environment		
0000026	Senior Project	General Assessment	16	480	0	0	480															16	Department of Architecture and Environment		
Practical Requirements		Sub-total	40.5	1176	0	108	1068	0	0	0	1	2	4.5	0	1	5	4	0	2	4	1	0	16		
Discipline Electives			2	32	32	0	0								2										
Major Electives			6	96	96	0	0											2		4					
Major Requirements			17.5	280	280	0	0					4				4		5.5		4					
GEESEM:EM			4	64	64	0	0							2						2					
General Education any elective			11	176	176	0	0									3		4		4					
General Education Electives			15	240	240	0	0	0	0	0	0	0	0	0	0	5	0	4	0	6	0	0			
Elective		Sub-total	40.5	648	648	0	0	0	0	0	0	0	4	0	4	0	7	0	11.5	0	14				
Practical Electives		Sub-total	4.5	135	0	0	135											2		2.5					
Total for Theoretical Instruction			141	2354	2206	36	32	80	22	0	21.5	2	25	0	27	0	18	0	11.5	0	14	0	0		
Total for Practical Instruction			45	1311	0	108	1203		0	0	2	1	4.5	0	1	5	4	0	4	4	3.5	0	16		
Innovation Requirements			4	96			96										2		2						
Total			190	3761	2206	144	1331	80	22	0	23.5	3	29.5	0	26	5	26	0	17.5	4	17.5	0	16		

Notation: GEESEM:EM is the abbreviation for General Education Electives for Science and Engineering Majors: Economics and Management.

2012 Undergraduate Curriculum for Civil Engineering (Construction and Engineering Management) (II)

Course Number	Course Title	Assessment	Credits	Instruction Hour Allocation					Credits Distribution for Semesters																Responsible Unit
				Total Hrs	Lec	Lab	Practice	Recitation	1	I	2	II	3	III	4	IV	5	V	6	VI	7	VII	8		
									19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W	16 W		
0001480	Professional Applications	Exam	2	32	32											2								Department of Architecture and Environment	
0001026	Fluid Mechanics	Exam	2	32	32								2											Department of Architecture and Environment	
0001027	Structural Dynamics	Exam	2	32	32												2							Department of Architecture and Environment	
Discipline Electives		Sub-total	6	96	96																				
0001030	Construction Project Planning and Management	General Assessment	2	32	32											2								Department of Architecture and Environment	
0001181	Hand-Drawing	General Assessment	2	32	32						2													Department of Architecture and Environment	
0001368	3DMax Architectural Modeling	General Assessment	2	32	32						2													Department of Architecture and Environment	
0001031	Steel Structure Design	General Assessment	2	32	32												2							Department of Architecture and Environment	
0001311	Civil Engineering Construction	Exam	3.5	56	56												3.5							Department of Architecture and Environment	
0001458	Construction Project Budget	Exam	2	32	32												2							Department of Architecture and Environment	
0001033	Building Seismic	Exam	2	32	32												2							Department of Architecture and Environment	
0000264	Building Regulations and Contract Management(Self-learning)	General Assessment	2	32	32															2				Department of Architecture and Environment	
0001481	Engineering Testing and Accident Treatment	General Assessment	2	32	32															2				Department of Architecture and Environment	
0000274	Building Service	General Assessment	2	32	32											2								Department of Architecture and Environment	
0000158	Power Distribution	General Assessment	2	32	32											2								Department of Architecture and Environment	
0000156	Construction Schedule Control	Exam	2	32	32															2				Department of Architecture and Environment	
0001034	Construction Quality Control(Chinese/English)	Exam	2	32	32												2							Department of Architecture and Environment	
0001035	Building Environment and Safety Management	General Assessment	2	32	32											2								Department of Architecture and Environment	
0001056	Building Technical and Economic	General Assessment	2	32	32															2				Department of Economics and Management	
0001037	Construction Machinery	General Assessment	2	32	32											2								Department of Architecture and Environment	

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				Total Hrs	Lec	Lab	Practice	Recitation	1	I	2	II	3	III	4	IV	5	V	6	VI	7	VII	8		
									19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W	16 W		
0001040	Engineering Testing Technology	Exam	2	32	32																			Department of Architecture and Environment	
Major Requirements		Sub-total	35.5	568	568																				
0001028	Civil Engineering Professional	Exam	2	32	32																			Department of Architecture and Environment	
0000152	Project Financial Management	Exam	2	32	32																			Department of Architecture and Environment	
0001042	Building Energy saving Technique	Exam	2	32	32													2						Department of Architecture and Environment	
0001044	Pile Foundation Engineering	General Assessment	2	32	32																			Department of Architecture and Environment	
0000265	Construction Project Management	General Assessment	2	32	32																			Department of Architecture and Environment	
0001047	Urban Road Projects	General Assessment	2	32	32																			Department of Architecture and Environment	
0001048	Light Steel	General Assessment	2	32	32													2						Department of Architecture and Environment	
0000140	High Level Building Construction	General Assessment	2	32	32																			Department of Architecture and Environment	
0000077	Road and Bridge Construction	General Assessment	2	32	32																			Department of Architecture and Environment	
0001049	International Engineering Contracting	General Assessment	2	32	32													2						Department of Architecture and Environment	
0001050	Civil Engineering Inquiry and Valuation	General Assessment	2	32	32																			Department of Architecture and Environment	
0001052	Underground Construction and Structure	General Assessment	2	32	32																			Department of Architecture and Environment	
0001053	Steel concrete Composite Structure	General Assessment	2	32	32																			Department of Architecture and Environment	
0001054	Foreign Accounting	General Assessment	2	32	32													2						Department of Architecture and Environment	
0001055	International Finance and Trade	General Assessment	2	32	32													2						Department of Architecture and Environment	
0000124	Real Estate Management	General Assessment	2	32	32												2							Department of Architecture and Environment	
0001036	Loading and Structural Design Methods	General Assessment	2	32	32												2							Department of Architecture and Environment	
Major Electives		Sub-total	34	544	544																				
0001482	Design of Professional Applications	General Assessment	1	30				30									1							Department of Architecture and Environment	
0000592	Professional Social Survey	General Assessment	1	30				30										1						Department of Architecture and Environment	

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				Total Hrs	Lec	Lab	Practice	Recitation	1	I	2	II	3	III	4	IV	5	V	6	VI	7	VII		8
									19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W		16 W
0001535	Engineering Testing and Accident Treatment	General Assessment	1.5	45			45													1.5			Department of Architecture and Environment	
0001484	Integrated Design I	General Assessment	1	30			30													1			Department of Architecture and Environment	
0001473	The Graph Recognition of Building Structure Construction	General Assessment	1	30			30										1						Department of Architecture and Environment	
Practical Electives		Sub-total	5.5	165			165																	

Vice-Director:

Vice-President:

Date:

Date: