

2012 Undergraduate Curriculum for Traffic Engineering (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		
0004311	Ethical Conduct and Fundamentals of Law	Exam	3.0	48	32	0	16	0	3.0																Shool of Marxism
0004312	Modern Chinese History	Exam	2.0	32	32	0	0	0			2														Shool of Marxism
0000011	Physical Education-1	Exam	1.0	32	32	0	0	0	1.0																Department of Physical Education
0000007	College English (Band One)	Exam	4.0	64	64	0	0	0	4.0																College of Foreign Languages
0001903	Calculus (Engineering)-1	Exam	5.5	99	64	0	0	35	5.5																College of Applied Sciences
0001908	Linear Algebra (Engineering)	Exam	3.0	54	48	0	0	6	3.0																College of Applied Sciences
0006457	Fundamentals of Chinese Sociology	Exam	4.0	64	48	0	16	0						4											Shool of Marxism
0000012	Physical Education-2	General Assessment	1.0	32	32	0	0	0			1.0														Department of Physical Education
0000008	College English (Band Two)	Exam	4.0	64	64	0	0	0			4.0														College of Foreign Languages
0000072	Physics Laboratory (Engineering)-1	Exam	4.0	64	64	0	0	0			4.0														College of Applied Sciences
0001904	Calculus (Engineering)-2	Report	5.5	99	64	0	0	35			5.5														College of Applied Sciences
0004361	Introduction to Philosophy	Exam	3.0	48	48	0	0	0					3.0												Shool of Marxism
0000013	Physical Education-3	Report	1.0	32	32	0	0	0					1.0												Department of Physical Education
0000009	College English (Band Three)	Exam	4.0	64	64	0	0	0					4.0												College of Foreign Languages
0000073	University Physics I-2	Exam	4.0	64	64	0	0	0					4.0												College of Applied Sciences
0003333	Probability and Statistics (Engineering)	Exam	3.0	54	50	0	0	4					3.0												College of Applied Sciences
0000330	Fundamental of software Design by C-Language	Exam	3	48	32	16	0	0							3										College of Computer Science
0000014	Physical Education-4	General Assessment	1.0	32	32	0	0	0						1.0											Department of Physical Education
0000010	College English (Band Four)	Exam	4.0	64	64	0	0	0						4.0											College of Foreign Languages
0002784	Fundamentals of National Defense	Report	2.0	32	32	0	0	0				2													Students' Affairs Office
University Requirements		Sub-total	62	1090	962	16	32	80	16.5	0	16.5	2	15	0	12	0									
0000066	Engineering Cartography V	Exam	3.0	48	48	0	0	0	3.0																College of Mechanical Engineering & Applied Electronics Technology

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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		
0001931	Engineering Mechanics III	Exam	5.5	88	84	4	0	0			5.5												College of Mechanical Engineering & Applied Electronics Technology		
0005887	Introduction to Traffic Engineering(Chinese/English)	Exam	3	48	48	0	0	0					3										College of Architecture and Civil Engineering		
0007680	Road Construction Materials	Exam	2.5	40	32	8	0	0					2.5										College of Architecture and Civil Engineering		
0000347	Principles of Urban Planning	Exam	2.0	32	32	0	0	0						2.0									College of Architecture and Civil Engineering		
0000353	Engineering Geology	Exam	2.0	32	28	4	0	0						2.0									College of Architecture and Civil Engineering		
0005885	Engineering Survey II	Exam	2.5	40	32	8	0	0						2.5									College of Architecture and Civil Engineering		
0007681	Transport Operational Research	Exam	2.0	32	32	0	0	0						2.0									College of Architecture and Civil Engineering		
0007766	The Fundamental of Electronic Technologies for Transportation	Exam	3	48	42	6	0	0					3										College of Architecture and Civil Engineering		
0002068	Soil and soil mechanics	Exam	3.0	48	42	6	0	0								3.0							College of Architecture and Civil Engineering		
0007682	Road Survey and Design	Exam	3	48	48	0	0	0								3							College of Architecture and Civil Engineering		
0007765	Foundations of Traffic Information and Control Technology	Exam	2.5	40	40	0	0	0						2.5									College of Architecture and Civil Engineering		
0005886	Systems Engineering	Exam	2	32	32	0	0	0								2							College of Architecture and Civil Engineering		
0007683	Subgrade and Pavement Engineering	Exam	3.0	48	48	0	0	0									3						College of Architecture and Civil Engineering		
0007684	Transportation Planning	Exam	2.5	40	40	0	0	0								2.5							College of Architecture and Civil Engineering		
0007074	Freshmen Seminar Course	Exam	1	16	16	0	0	0	1														College of Architecture and Civil Engineering		
Discipline Requirements		Sub-total	42.5	680	644	36	0	0	4	0	5.5	0	8.5	0	11	0	10.5	0	3	0	0	0	0		
0004747	Machine Shop Training B	General Assessment	2.0	60	0	0	60	0			2												College of Mechanical Engineering & Applied Electronics Technology		
0001942	Practice of Engineering Cartography I	General Assessment	2.0	60	0	0	60	0			2.0												College of Mechanical Engineering & Applied Electronics Technology		
0004964	Physics Laboratory (Engineering)-1	General Assessment	1.0	24	2	22	0	0			1.0												College of Applied Sciences		
0001275	Cognitive Practice	General Assessment	1	30	0	0	30	0	1														College of Architecture and Civil Engineering		
0007069	Social Practices	General Assessment	2.0	48	0	0	48	0							2								Shool of Marxism		
0003087	Practices of National Defense	General Assessment	1.0	30	0	0	30	0				1											Students' Affairs Office		
0004965	Physics Laboratory (Engineering)-2	General Assessment	1.5	36	0	36	0	0					1.5										College of Applied Sciences		
0001219	Practice of Engineering Geology	General Assessment	1.0	30	0	0	30	0								1.0							College of Architecture and Civil Engineering		

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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		
0005903	Practive of Engineering Survey	General Assessment	2	60	0	0	60	0								2								College of Architecture and Civil Engineering	
0005904	Training of Traffic Planning Software	Exam	2	60	0	0	60	0								2								College of Architecture and Civil Engineering	
0007692	Traffic Engineering Curriculum Design	Exam	4	120	0	0	120	0													4			College of Architecture and Civil Engineering	
0007686	Professional Practice	General Assessment	4	120	0	0	120	0													4			College of Architecture and Civil Engineering	
0007693	The Practice of Road Reconnaissance and Design	General Assessment	4	120	0	0	120	0													4			College of Architecture and Civil Engineering	
0005233	Senior Project	General Assessment	16	480	0	0	480	0															16	College of Architecture and Civil Engineering	
Practical Requirements		Sub-total	43.5	1278	2	58	1218	0	1	0	5	1	1.5	0	0	5	2	0	0	0	12	0	16		
Discipline Electives			6	96	96	0	0	0	0	0	0	0	0	0	2	0	0	0	4	0	0	0	0		
Major Requirements			14	224	224											6		6		2					
Major Electives			4	64	64													2		2					
GEESEM:EM			8	128	128				2							4		2							
General Education Electives			8	128	128				2							2		2		2					
Electives		Sub-total	40	640	640	0	0	0	4	0	0	0	0	0	2	0	12	0	16	0	6	0	0		
Total for Theoretical Instruction			144.5	2410	2246	52	32	80	24.5	0	22	2	23.5	0	25	0	22.5	0	19	0	6	0	0		
Total for Practical Instruction			43.5	1278	2	58	1218	0	1	0	5	1	1.5	0	0	5	2	0	0	0	12	0	16		
Innovation Requirements			4	96			96													2	2				
Total			192	3784	2248	110	1346	80	25.5	0	27	3	25	0	25	5	24.5	0	19	2	20	0	16		

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

2012 Undergraduate Curriculum for Traffic Engineering (II)

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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		
0000659	Traffic Engineering Design	Exam	2	32	32	0	0	0										2.0						College of Architecture and Civil Engineering	
0000849	Urban Road Design	Exam	2	32	32	0	0	0										2.0						College of Architecture and Civil Engineering	
0005889	Traffic Survey and Analysis	Exam	2	32	32	0	0	0							2									College of Architecture and Civil Engineering	
Discipline Electives		Sub-total	6	96	96	0	0	0	0	0	0	0	0	0	2	0	0	0	4	0	0	0	0		
0007708	Traffic Management and Traffic Control (Chinese/English)	Exam	2	32	32	0	0	0									2							College of Architecture and Civil Engineering	
0007709	Traffic Safety (Chinese/English)	Exam	2	32	32	0	0	0										2						College of Architecture and Civil Engineering	
0006345	Traffic Management and Traffic Control (Chinese/English)	Exam	2	32	32	0	0	0									2							College of Architecture and Civil Engineering	
0006344	Road Traffic Safety (Chinese/English)	Exam	2	32	32	0	0	0										2						College of Architecture and Civil Engineering	
0003401	Traffic Hub	General Assessment	2	32	32	0	0	0										2						College of Architecture and Civil Engineering	
0005893	Road Engineering Construction Management	General Assessment	2	32	32	0	0	0													2			College of Architecture and Civil Engineering	
0005897	Highway Capacity Analysis	General Assessment	1.5	24	20	4	0	0										1.5						College of Architecture and Civil Engineering	
0006349	Traffic Engineering Psychology	General Assessment	1.5	24	24	0	0	0									1.5							College of Architecture and Civil Engineering	
0006347	Logistics Engineering I	Exam	1.5	24	24	0	0	0									1.5							College of Architecture and Civil Engineering	
0007711	Introduction to Railway Engineering of City (Self-learning)	General Assessment	2	32	32	0	0	0									2							College of Architecture and Civil Engineering	
0007712	Traffic Data and Information Management (Self-learning)	General Assessment	3	48	36	12	0	0									3							College of Architecture and Civil Engineering	
0005890	English for Road and Traffic Engineering	Exam	2	32	32	0	0	0									2							College of Architecture and Civil Engineering	
0006348	Parking Lot Planning and Designing I	General Assessment	1.5	24	24	0	0	0										1.5						College of Architecture and Civil Engineering	
0006346	Traffic Environmental Protection I	Exam	1.5	24	24	0	0	0										1.5						College of Architecture and Civil Engineering	
0005896	Urban Passenger Transportation	Exam	2	32	32	0	0	0										2						College of Architecture and Civil Engineering	
0005895	Intelligent Transportation System I	Exam	1.5	24	24	0	0	0										1.5						College of Architecture and Civil Engineering	
0005891	Highway Landscape Design	Exam	1.5	24	24	0	0	0													1.5			College of Architecture and Civil Engineering	
0005894	Roadside Safety Design	Exam	2	32	32	0	0	0													2			College of Architecture and Civil Engineering	

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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	
0005892	Highway Engineering Inspection	Exam	2	32	24	8	0	0													2			College of Architecture and Civil Engineering	
0007713	Maintenance and Management for Highway Engineering (Self-learning)	Exam	2	32	24	0	8	0													2			College of Architecture and Civil Engineering	
Major Requirements		Sub-total	37.5	600	568	24	8	0	0	0	0	0	0	0	0	0	14	0	14	0	9.5	0	0		
0005898	Bridges and Culverts Hydrology	Exam	2	32	32	0	0	0										2						College of Architecture and Civil Engineering	
0005902	Asphalt and Asphalt Mixture	General Assessment	2	32	24	0	8	0													2			College of Architecture and Civil Engineering	
0007728	Engineering Economics	Exam	3	48	48	0	0	0													3			College of Architecture and Civil Engineering	
0007729	Bridge Engineering Introduction (Self-learning)	Exam	2	32	32	0	0	0										2						College of Architecture and Civil Engineering	
0005899	Supervision of Highway Engineering	Exam	1	16	16	0	0	0													1			College of Architecture and Civil Engineering	
0005901	Introduction to Transportation Engineering I	Exam	1.5	24	24	0	0	0										1.5						College of Architecture and Civil Engineering	
Major Electives		Sub-total	11.5	184	176	0	8	0	0	0	0	0	0	0	0	0	0	0	0	5.5	0	6	0	0	

Vice-Director:

Vice-President:

Date:

Date: