Appendix A- (Curriculum for Civil Engineering)

		Appendix A- (Cui	1100	I WIII I		·		ı		ı	ı				1
Note: CP-C1	redit Point, S-S	Semester, L-Lecture, P-Pracitice	Тур	Chines	ECT	Wo	rkload	S1	S2	S3	S4	S5	S6	S7	S8
C	1 1	V 11	e l	e CP	S CP	Contact	Self-Study	G.D.	G.D.	G.D.	G.D.	G.D.	G.D.	G.D.	GT
Cours	se module	Module		ecr	SCI	Hours	Hours	CP	CP	CP	CP	CP	CP	CP	CF
		Advanced Mathematics A(1)	L	4.5	4.5	72	63	4.5							1
		` /	_			96		7.5	6			$\vdash \vdash$	\vdash	\vdash	
		Advanced Mathematics A(2)	L	6	6		84		6				\vdash	—	-
		Linear algebra	L	2	2	32	28		2			<u> </u>	igsquare	ــــــ	
		Probability and statistics	L	2	2	32	28			2					
Mathemati	cs and Natural	University Physics (1)	L	2.5	2.5	40	35		2.5						
Sciences		University Physics (2)	L	3	3	48	42			3					
		University Physics Experiments (1)	L&P	1	2	16	44		2						1
			_	1						_		\vdash		<u> </u>	_
		University Physics Experiments (2)	L&P	I	2	16	44			2		<u> </u>	igwdown	—	_
		University Chemistry	L&P	2	3	32	58	3				<u> </u>		<u> </u>	
		Operations Research B	L	2	2	32	28				2			<u> </u>	
T C	· •	Basic computer courses in college	L&P	2.5	2.5	40	35	2.5							
Informat	tics courses	C language programming	L&P	4	5	60	90		5						
		Drawing geometry B	L	2	2	32	28		2						
												$\vdash \vdash$	$\vdash \vdash \vdash$	├──	
		Introduction to civil engineering	L	1.5	1.5	24	21		1.5			\vdash	igwdown	—	
		Graphing of Engineering	L	1.5	1.5	24	21			1.5			igsqcup	L	
		CAD Technological base	L&P	1.5	2.5	24	51			2.5					
		Theoretical mechanics	L	2	2	32	28			2					
		Mechanics of materials	L	3	3	48	42			3			\vdash		
									\vdash			$\vdash \vdash$	$\vdash \vdash$	\vdash	\vdash
		Civil engineering materials	L&P	2	3	32	58		<u> </u>	3		└	igwdapprox		
Engineering	g Fundamentals	Engineering Survey A	L&P	2	3	32	58				3	<u> </u>	igsquare	<u> </u>	$oxed{oxed}$
co	ourses	Structural Mechanics (1)	L	3.5	3.5	56	49				3.5	L^{-1}	L T		L^{-}
		Structural Mechanics (2)	L	1.5	1.5	24	21					1.5			
		Engineering geology	L&P	1.5	2	24	36					2	\Box		\vdash
				3.5	4	56	64		 			4	$\vdash \vdash$	\vdash	\vdash
		Design principle of concrete structure	L&P						<u> </u>			_	\longmapsto		_
		Soil mechanics and foundation	L&P	3	3	48	42					3	igsquare	<u> </u>	_
		Design principle of steel structure	L	2	2	32	28	<u> </u>	L			2	L	<u></u>	
		Construction technology and organization of	Ţ	_		10									
		civil engineering	L	3	3	48	42						3		
		Building construction	L	3	3	48	42				3	$\vdash \vdash$	\vdash	\vdash	\vdash
			 								3			<u> </u>	-
		Design of steel structure	L	2.5	2.5	40	35					2.5		<u> </u>	
	Architectural	Concrete and masonry structure design	L	3.5	3.5	56	49						3.5	<u> </u>	
	engineering	Building aseismicity	L	1.5	1.5	24	21							1.5	
		High-rise buildings	L	2	2	32	28							2	
		Estimated budget for construction projects	L	2	2	32	28						\vdash	2	
			_								2	\vdash	$\vdash \vdash \vdash$		
		Road survey and design	L	3	3	48	42				3	<u> </u>	igsquare	—	
	Road and	Roadbed and pavement engineering	L	3	3	48	42					3	igsqcup	<u> </u>	
	bridge engineering	Hydrology for bridge and culvert	L	1.5	1.5	24	21						1.5		
		Bridge Engineering (1)	L	2.5	2.5	40	35						2.5		
		Bridge Engineering (2)	L	2.5	2.5	40	35							2.5	
		Highway project budget estimate	L	2	2	32	28					$\vdash \vdash$		2	
											2		\vdash		-
		Rock mechanics	L&P	2	2	32	28				2	<u> </u>	igwdot	Ь—	
	Geotechnical	Geotechnical investigation and testing	L&P	2	2	32	28					2	igsqcup	<u> </u>	
	and urban	Underground structures	L	3	3	48	42						3		
	engineering	Slope engineering and foundation treatment	L	2.5	2.5	40	35						2.5		
		Subway and tunnel engineering	L	3	3	48	42							3	
Engineering Application s									\vdash			$\vdash \vdash$	$\vdash \vdash$		\vdash
		Estimates for underground works	L	2	2	32	28		-				\longmapsto	2	_
		Overall design method of structural plane	L	1.5	1.5	24	21					└	igsquare	<u> </u>	lacksquare
		Specialized English	L	1.5	1.5	24	21	<u> </u>		<u> </u>			L		
		BIM and structural design software	L	2	2	32	28								
		safety	L	1.5	1.5	24	21					г			
		Introduction to engineering supervision	L	1.5	1.5	24	21					$\vdash \vdash$	$\vdash \vdash$	\vdash	\vdash
			-						 			$\vdash \vdash$	$\vdash \vdash \vdash$		\vdash
		Bridge Computer	L	1.5	1.5	24	21		 				igwdown		_
		Intelligent Construction (Bilingual Course)	L	1.5	1.5	24	21		<u> </u>			<u> </u>	igsquare	<u> </u>	$oxed{oxed}$
	Major	Tunneling Project	L	1.5	1.5	24	21							L	
	electives (4.5	Engineering structure test and inspection	L&P	1.5	1.5	24	21								
	credits required)	Introduction to environment protection	L	1.5	1.5	24	21					$\vdash \vdash$	\Box		
		correction							 			$\vdash \vdash$	$\vdash \vdash \vdash$	\vdash	\vdash
	required)		L	1.5	1.5	24	21		 				igwdapprox		_
		Improvement and reinforcement of rock and soil	L	1.5	1.5	24	21								
		mass		1.5	1.5	21	21							<u> </u>	
		Geological disasters prevention and cure	L	1.5	1.5	24	21								
		Prefabricated building	L	1.5	1.5	24	21								
		Hydromechanics	L	1.5	1.5	24	21					$\vdash \vdash$	$\vdash \vdash$	\vdash	
									-			$\vdash \vdash$	$\vdash \vdash \vdash$		\vdash
		Engineering economics and project management		1.5	1.5	24	21					<u></u> '	igwdapprox		\vdash
		Laws of Civil Engineering	L	1	1	16	14					<u> </u>	igsquare	<u></u>	
		National defense education entrance education	P	1	2	44	16	2							
	Architectural	Voluntary labour	P	1	2	22	38	2							
		Internet+Spread Xi's thoughts on socialism with		_	-			<u> </u>				$\vdash \vdash \vdash$	$\vdash \vdash$	\vdash	T
		1 5	L&P	1	2	22	20					1		1 2	
	Architectural	If the aga along a towards the			. /	1.7.	38	I	1	ı		, ,		2	1
	Architectural	Chinese characteristics in the new era into	Lar	1	~			l				1		ļ	
	engineering,	thousands households		1											
			L&P	1	2	22	38		2						

Appendix A- (Curriculum for Civil Engineering)

Course module			rippendix ri- (eur													I -
Mondate S	Note: CP-Cro	edit Point, S-S	Semester, L-Lecture, P-Pracitice	Tvp	Chines	ECT	Wo	rkload	S1	S2	S3	S4	S5	S6	S7	S
Controlled Con	Course module Madula				1	Contact	Self-Study	CD	CD	CD	CD	CD	CD	CD	Cl	
geochatical undergourd and specific productions of the production	Course		Wodule				Hours	Hours	Cr	Cr	Cr	Cr	Cr	Cr	Cr	C.
and urban		_	"C language programming" course design	L&P	1	2	22	38			2					
undergound contribution of the property of the		_	Course design of engineering graphing	L&P	1	2	22	38			2					
University of the properties o				P	4	4	88	32								
Construction organization control edisgin EAP 1 2 2 22 38		_			2							5				
Comparison Professional Practice (1)		engineering		-	1									2		
Practical Protection Course Design of House Architecture Law 3					4	_										
Practical and Architectural cognisering of Lorende Architectural Cognisering Course design of A Lorende Cognisering Course design of Independent of I			1	-		_									8	
Practical rimining Architectural engineering Courne design A LeP 1 2 2 2 38	ŀ		1			_						6			0	
Architectural anginering Course design Course Cou	Dunatical				1							0	2			
Converse design of converse and masonry structure. L&P 3					1											\vdash
Construction engineering budget course design LAP 1 2 22 38	I raining					_							4			├
Course design of road survey				-	3									6		
Road and bridge engineering course design A L&P 2 4 44 76					1										2	
Road and bridge engineering Roaded and powerment course design L&P 2 4 44 47 6						_						4				
Broadbed and pavement course design 1.8P 2 4 44 76		Road and				4							4			
Possible				L&P	2	4	44	76					4			
Bridge engineering course design L&P 2 4 44 76			Foundation engineering course design A	L&P	1	2	22	38					2			
Concrete course design B		engineering	Bridge engineering course design	L&P	2	4	44	76							4	
Seign			Highway engineering budget course design	L&P	1	2	22	38							2	
Seign	ľ			L&P	1	2	22	38					2			
Scotechnical Soundation engineering course design B CAP 2 4 44 76				L&P	1	2	22	38					2			
Course design of underground dengineering Course design of slope and foundation treatment CAPP 1 2 2 2 38			υ	-	2											T
Course design of slope and foundation treatment L&P 1 2 2 2 2 38			ני			_							<u>'</u>	4		
Subway and tunnel engineering course design L&P 2 4 44 76		_			1											
Underground engineering budget course design L&P 1 2 22 38 38 4 42 3 48 42 48 48 48 48 48 48		engineering			2	_									1	
Foreign Language					1											
College English (2)					2	_			2							
College English (3)	Foreign Language College English (2) College English (3)							3	_							
College English (4)				L		_				2						
Ideology, morality and rule of law L 2.5 2.5 40 35 2.5				L							3					
Basic principle of Marxism				-								3				
Outline of Chinese Modern History L 2.5 2.5 40 35 2.5									2.5							
Introduction to MAO Zedong Thought and the theoretical system of socialism with Chinese characteristics L				L											3	
Theoretical system of socialism with Chinese characteristics L 2 2 32 32 28 2 3 3 48 42 3 3 48 42 3 3 48 42 3 3 48 42 3 3 48 42 3 3 48 42 3 3 48 42 3 3 48 42 3 3 48 42 3 3 48 42 3 3 48 42 3 3 48 42 3 3 48 42 3 3 48 42 3 3 48 42 3 3 48 42 3 3 48 42 3 3 48 42 3 3 48 42 3 48 42 42 42 42 42 42 42			Outline of Chinese Modern History	L	2.5	2.5	40	35				2.5				
Introduction to Xi Thought on socialism with Chinese characteristics in the new era Situation and Policy (1) L 1.5 1.5 24 21 0.5 0.5 0.5 0.5 Situation and Policy (2) L 0.5 0.5 8 7 0.5 0.5 0.5 Writing	General Courses		theoretical system of socialism with Chinese	L	2	2	32	28			2					
Situation and Policy (2)			Introduction toXi Thought on socialism with	L	3	3	48	42					3			
Situation and Policy (2)			Situation and Policy (1)	L	1.5	1.5	24	21	0.5				0.5	0.5		
Writing				_											0.5	T
Physical Education (1)				-		_			2						0.5	\vdash
Physical Education (2)				-	1						\vdash					\vdash
Physical Education (3)			•		1				-	3						\vdash
Physical Education (4)					1				\vdash		2		<u> </u>			\vdash
Cultural quality education (Chinese culture, natural science, etc.)			•	_	1				-		3	2				\vdash
Description Courses Cultural Science, etc.) Cultural Quality Education (Public Art) L 2 2 32 28 2	Quality Expansion Courses			L&P	1	3	30	34	-		-	3				\vdash
Psychological and health education of college students L&P 1 2 32 28 2			natural science, etc.)		1	1			1							
Students				L	2	2	32	28	2		<u> </u>					
Career Development and Guidance for College Students (1) L&P 1 3 16 74 3 3 Career Development and Guidance for College Students (2) L&P 1 3 16 74 3 3 Innovation and Entrepreneurship Education (1) L&P 1 3 16 74 3 3 Bachelor Thesis Bachelor Thesis L&P 15 30 160 740 3 3				L&P	1	2	32	28	2							
Students (1)			Military theory and national security education	L	2	2	36	24					2			
Students (2) Innovation and Entrepreneurship Education (1) L&P 1 3 16 74 3 Innovation and Entrepreneurship Education (2) L&P 1 3 16 74 3 Bachelor Thesis Bachelor Thesis L&P 15 30 160 740 3				L&P	1	3	16	74						3		
Innovation and Entrepreneurship Education (2) L&P 1 3 16 74 3 3			1	L&P	1	3	16	74					3			
Innovation and Entrepreneurship Education (2) L&P 1 3 16 74 3 3			. ,	L&P	1	3	16	74						3		
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Total 170 240 2926 4274 30 31 31 31.0 29.5 29 28.5 3																30