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Physical  
Education III

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		engineering materials																							
3031301026		Engineering geology and soil mechanics	4.5	4	0.5	0	126	80	64	16	0	46				4.5									
			10	9	1	0	280	176	144	32	0	104	0	0	3	7	0	0	0	0					
							(work load)							1	2	3	4	5	6	7	8				
3031301027		Construction regulations	1	1	0	0	28	16	16	0	0	12					1								
3031301028		Project cost and budget	2	2	0	0	56	32	32	0	0	24							2						
3031301029		Engineering economics and management project	2	2	0	0	56	32	32	0	0	24									2				
3031301030		Frontiers of Science	0.5	0.5	0	0	14	8	8	0	0	6									0.5				
3031301031		Research methods	0.5	0.5	0	0	14	8	8	0	0	6									0.5				
3031301032		Major introduction	0.5	0.5	0	0	14	8	8	0	0	6	0.5												
3031301033		Steel Structures	2.5	2.5	0	0	70	40	40	0	0	30					2.5								
3031301034		Civil engineering construction	3.5	3.5	0	0	98	56	56	0	0	42							3.5						
3031301035		Concrete structure basic principle	4	4	0	0	112	64	64	64	0	48				4									
3031301036		Foundation Engineering	2.5	2.5	0	0	70	40	40	0	0	30					2.5								
			19	19	0	0	532	304	304	64	0	228	0.5	0	0	4	6	5.5	3	0					
	4	3031401001		Road and bridge engineering	1.5	1	0.5	0	42	32	16	16	0	10						1.5					
		3031401002		Foundation	1.5	1.5	0	0	42	24	24	0	0	18							1.5				

		treatment																					
	3031401003	Elastic mechanics and finite element	1.5	1.5	0	0	42	24	24	0	0	18									1.5		
	3031401004	Prestressed concrete structure	1.5	1	0.5	0	42	28	16	12	0	14										1.5	
	3031401005	Science and professional english	1.5	1.5	0	0	42	24	24	0	0	18										1.5	
	3031401006	Building construction security techniques	1.5	1.5	0	0	42	24	24	0	0	18										1.5	
	3031401007	Construction environment and equipment	2	1.5	0.5	0	56	36	24	12	0	20				2							
	3031401008	Masonry structure	1.5	1.5	0	0	42	24	24	0	0	18									1.5		
	3031401009	Engineering structure and reinforcement	1.5	1.5	0	0	42	24	24	0	0	18									1.5		
	3031401010	Structural dynamics	1.5	1.5	0	0	42	24	24	0	0	18									1.5		
	3031401011	Engineering Hydrology	1.5	1.5	0	0	42	24	24	0	0	18									1.5		
	3031401012	Building Water Supply and Drainage	1.5	1.5	0	0	42	24	24	0	0	18										1.5	
	3031401013	Structural inspection and testing	2.5	2	0.5	0	72	48	32	16	0	24										2.5	
	3031401014	Introduction to passive house	1.5	1	0.5	0	56	32	16	16	0	24									1.5		
	3031401015	Document Retrieval and Utilization	1	1	0	0	28	16	16	0	0	12									1		
	3031401036	Numerical computation methods	2	2	0	0	56	32	32	0	0	24				2							

		3031401037	Equations of mathematical physics	2	2	0	0	56	32	32	0	0	24					2									
		3031401016	Comprehensive practice	2	0	0	2	2												2							
14.5		3031401017	Underground engineering structure	3	3	0	0	84	48	48	0	0	36						3								
		3031401018	Course design of underground engineering structure	1	0	0	1	1												1							
		3031401019	Earthquake resistance of underground structure	2	2	0	0	56	32	32	0	0	24							2							
		3031401020	Course design of earthquake resistance of underground structure	1	0	0	1	1												1							
		3031401021	Rock Mechanics	2	2	0	0	56	32	32	0	0	24							2							
		3031401022	Tunnel Engineering	3	3	0	0	84	48	48	0	0	36							3							
		3031401023	Ventilation safety and lighting	1	1	0	0	28	16	16	0	0	12								1						
		3031401024	Underground engineering construction technology	2.5	2.5	0	0	70	40	40	0	0	30								2.5						
		3031401025	Course design of underground engineering construction technology	1	0	0	1	1													1						
14.5		3031401026	Course design of tall building	1	0	0	1	1													1						



		structure design																										
	3031401027	( Machine operation of tall building structure design)	1	0	0	1	1																1					
	3031401028	Tall building structure and aided design	2	2	0	0	56	32	32	0	0	24												2				
	3031401029	Design of fabricated concrete structure	3	2.5	0.5	0	84	52	40	12	0	32											3					
	3031401030	Course design of fabricated concrete structure design	2	0	0	2	2																2					
	3031401031	Fabricated steel structure design	2.5	2.5	0	0	70	40	40	0	0	30													2.5			
	3031401032	Course design of fabricated steel structure design	1	0	0	1	1																	1				
	3031401033	Seismic Design of Engineering Structures	2	2	0	0	56	32	32	0	0	24													2			
	3031401034	Seismic course design of engineering structures	1	0	0	1	1																		1			
	3031401035	BIM Intermediate	1	0	1	0		32	0	32	0														1			
			18.5	12	1.5	5	518	312	200	32	80	206	0	0	0	0	0	0	0	0	9.5	9	0					
			181	124.5	8.5	48	4072	2492	1956	224	312	1580	26.5	26	26.5	25.5	15.5	17.5	18	16								

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