		Curri	culum of Ti	ransporta	ation Progra	m								
Note: CP - Cred	lit Point, S - Semester, L - Lecture, P - Practice	_			Workl	load	S1	S2	S3	S4	S5	S6	S7	S8
Module designation	Modules courses	Type	Chinese CP	ECT CP	Contact Hours	Self- study Hours	СР							
	Advanced Mathematics A1	L	4	4	72	48	4							
	Advanced Mathematics A2	L	6	6	108	72		6						
	College Physics B1	L&P	3	3	54	36	3							
	College Physics B2	L&P	3	3	54	36		3						
Mathematics	College Physics Experiments B1	P	2	2	36	24	2							
and Physics	College Physics Experiments B2	P	2	2	36	24		2						
	Linear Algebra A	L	3	3	54	36			3					
	Probability and Statistics A	L	3	3	54	36				3				
	Operations Research	L&P	4	4	72	48				4				
	Subtotal		30	30	540	360	9	11	3	7	0	0	0	0
	College Computer A	L&P	4	4	72	48	4							
Informatics	Python Programming B	L&P	4	4	72	48		4						
imormatics	Information System and Database	L&P	3	3	54	36				3				
	Subtotal		11	11	198	132	4	4	0	3	0	0	0	0
	Engineering Drawing and CAD	L&P	4	4	72	48	4							
Engineering	Fundamentals of Transportation Electrotechnics Technology	L&P	4	4	72	48			4					
Fundamentals	Engineering Mechanics	L&P	4	4	72	48			4					
	Subtotal		12	12	216	144	4	0	8	0	0	0	0	0
	Introduction to Rail Transit	L	2	2	36	24			2					
Engingering	Transportation Organization	L&P	2	2	36	24			2					
Engineering	Principles of Urban Planning	L&P	3	3	54	36				3				
Applications	Transport Economics	L	2	2	36	24				2				
	Traffic Engineering	L&P	3	3	54	36			3					

	Subtotal		12	12	216	144	0	0	7	5	0	0	0	0
	Introduction to Intelligent Transportation System	L	3	3	54	36		3						
	Fundamentals and Technology of Sensors	L&P	3	3	54	36				3				
	Infrastructure and Equipment of Rail Transit	L&P	3	3	54	36				3				
	Artificial Intelligence Technology and Application	L&P	3	3	54	36					3			
	Traffic Information Detection and Processing	L&P	3	3	54	36					3			
	Railway Vehicle and Operation Control	L&P	3	3	54	36						3		
	Road Traffic Design	L&P	3	3	54	36				3				
	Operation Organization and Management of Rail Transit	L&P	3	3	54	36				3				
	Traffic Planning	L&P	3	3	54	36					3			
	Rail Transit Train Operation Organization	L&P	3	3	54	36					3			
Electives	Modeling and Simulation of Transportation System	L&P	3	3	54	36					3			
	Traffic Management and Control	L&P	3	3	54	36						3		
	Green Manufacturing and Environment	L&P	2	2	36	24				2				
	Geographic Information System and Application	L&P	3	3	54	36				3				
	Control Engineering Basis	L&P	3	3	54	36					3			
	Traffic Safety Engineering	L&P	3	3	54	36					3			
	Data Analysis and Data Mining	L&P	3	3	54	36					3			
	Planning and Design of Transportation Terminals	L&P	3	3	54	36					3			
	Traffic System Analysis	L	3	3	54	36					3			
	Project Management	L&P	3	3	54	36					3			
	Modern C++ Programming	L	3	3	54	36						3		
	Measurement and Application of Key	L&P	2	2	36	24						2		

	Standards													
	Subtotal <sup>1</sup>		25	25	450	300	0	1.2	0	6.6	12.9	4.3	0	0
	College English A1	L	4	4	72	48	4							
Foreign	College English A2	L	4	4	72	48		4						
C	German for Beginners I <sup>2</sup>	L	4	4	72	48			4					
Language	Technical English and Thesis Writing <sup>2</sup>	L&P	3	3	54	36					3			
	Subtotal <sup>3</sup>		11	11	198	180	4	4	1.7	0	1.3	0	0	0
	Chinese Modern and Contemporary History	L&P	3	3	54	36	3							
	Ideology Morality and Rule under the Law	L	3	3	54	36	3							
	Basic Principles of Marxism	L	3	3	54	36		3						
	Introduction to Xi Jinping Thought on													
	Socialism with Chinese Characteristics for a	L	3	3	54	36			3					
	New Era													
	Introduction to Maoism and Socialist													
	Theoretical System with Chinese	L&P	3	3	54	36				3				
C 1	Characteristics													
General	Situation and Policy Education 1	L	0.5	0.5	9	6	0.5							
Courses	Situation and Policy Education 2	L	0.5	0.5	9	6		0.5						
	Situation and Policy Education 3	L	1	1	18	12			0.2	0.2	0.1	0.2	0.3	
	Sports Club I~IV	L&P	2	2	60	0	0.5	0.5	0.5	0.5				
	Military Theory	L	2	2	36	24	2							
	Mental Health for College Students	L	2	2	36	24		2						
	National Security Education for College	L	1	1	18	12	1							
	Students	L	1	1	18	12	1							
	Extended general education courses	L	8	8	144	96					4	4		
	Subtotal		32	32	600	360	10	6	3.7	3.7	4.1	4.2	0.3	0
Practical	Military Training	P	2	2	60	0	2							
Training	Industry Cognition	L	2	2	36	24	2							
	Engineering Survey Practice and Labor	L	3	3	10	80			3					

	Innovate Practice Project L1	P	2	2	36	24			2					
	Innovate Practice Project L2	P	3	3	18	72				3				
	Innovate Practice Project L3	P	3	3	18	72					3			
	Innovate Practice Project L4	P	3	3	18	72						3		
	Internship in Enterprise	P	19	21	180	450							21	
	Subtotal		37	39	376	794	4	0	5	3	3	3	21	0
Bachelor's Thesis	Bachelor's Thesis	L&P	15	20	180	420								20
	Subtotal		15	20	180	420	0	0	0	0	0	0	0	20
	Total		185	192	2974	2786	35	26.2	28.4	28.3	21.3	11.5	21.3	20

## Note:

- 1. For the Electives module, the subtotal (credits and workload) is calculated based on the minimum requirement of 25 credits to be selected out of 64 available credits. Contact hours, self-study hours, and semester-wise credit distribution are all proportionally estimated according to the minimum 25 credits (i.e., total × 25/64).
- 2. In the Foreign Language module, students are required to take either "German for Beginners I" or "Technical English and Thesis Writing".
- 3. The subtotal for the Foreign Language module is calculated based on the minimum required credits and workload. Semester-wise credit distribution is also proportionally calculated based on the minimum credits required.