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		First Foreign Language	2	72	2	
	公土	Theory and Practice of Socialism with Chinese Characteristics	2	36	1	
	公共必修课	Dialectics of Nature	1	18	1	
	保	Numerical Analysis	3	54	1	
学		Mathematical Statistics	3	54	1	
位课		Continuum Mechanics	2	36	1	
	研研	Mechanical Behavior of Materials	2	36	1	
	研究方向必修课	Mesomechanics	2	36	2	
	必修	Damage Mechanics	2	36	1	
	课	Nonlinear FEM	2	36	2	
		Advanced Fracture Mechanics	2	36	2	
		Advanced Composite Mechanics	2	36	2	
		Advanced Rock Mechanics	2	36	2	
		Programming for Structural Analysis	2	36	1	
		Nonlinear Vibration	2	36	2	
		Random Vibration	2	36	2	
		Idenfication Theory of Modes	2	36	2	
		Optimization Theory for Engineering Structures	2	36	2	
		Elasticity and Plasticity				
		Finite Element Method				
		Dynamics of Structures				

		First Foreign Language	2	72	2	
	公共	Theory and Practice of Socialism with Chinese Characteristics	2	36	1	
	公共必修课	Dialectics of Nature	1	18	1	
	课	Numerical Analysis	3	54	1	
		Mathematical Statistics	3	54	1	
学位课		Continuum Mechanics	2	36	1	
I		Nonlinear Vibration	2	36	2	
	研究	Random Vibration	2	36	2	
	研究方向必修课	Optimization theory for Engineering Structures	2	36	2	
	修课	Nonlinear FEM	2	36	2	
		Idenfication Theory of Modes	2	36	2	
		Advanced Fracture Mechanics	2	36	2	
		Advanced Composite Mechanics	2	36	2	
		Programming for Structural Analysis	2	36	1	
į 1	<u>先</u>	Mechanical Behavior of Materials	2	36	1	
ì	先) 多 果	Mesomechanics	2	36	2	
		Damage Mechanics	2	36	1	
		Advanced Rock Mechanics	2	36	2	
		Dynamic Test and Examine for Structure	2	36	2	
		Elasticity and Plasticity				
		Finite Element Method				
		Dynamics of Structures				

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	First Foreign Language	2	72	2	
公共	Theory and Practice of Socialism with Chinese Characteristics	2	36	1	
 公共必修课 	Dialectics of Nature	1	18	1	
保 保	Numerical Analysis	3	54	1	
	Mathematical Statistics	3	54	1	
	Elasticity and Plasticity	3	54	1	
研	Finite Element Method	3	54	1	
研究方向必修课	Advanced Soil Mechanics	2	36	2	
必修	Rock mechanics	2	36	2	
课	Testing and Detecting of Geotechanical Eingineering	2	36	2	
	Matrix Theory	3	54	1	
	Geoenvironmental Engineering	2	36	2	
	Constitutive Law of Soils	1	36	2	
	Geosynthetics	2	36	2	
	Theory of Pile Foundation	2	36	2	
	Slope Seepage and Stability Analysis	3	54	2	
	Theory of Landslide	2	36	2	
	Rheological Mechanics for Rock & Soil	2	36	2	
	Intelligent Rock Mechanics	2	36	2	
	Permeability Property of Fissure Medium	2	36	2	

	Stability Analysis of Surrounding Rocks in Underground Engineering	2	36	2	
	Control to Stability of Undergroud Engineering	2	36	2	
	Monitoring and Analysis in Underground Engineering	2	36	2	
	Soil Mechanics				
	Foundation Engineering				

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		First Foreign Language	2	72	2	
	公共	Theory and Practice of Socialism with Chinese Characteristics	2	36	1	
	公共必修课	Dialectics of Nature	1	18	1	
	课	Numerical Analysis	3	54	1	
		Mathematical Statistics	3	54	1	
学位		Elasticity and Plasticity	3	54	1	
课		Finite Element Method	3	54	1	
	<i>1</i> .11.	Advanced Theory of Steel Structure	2	36	1	
	究 完 方·	Stability Theory of Structures	2	36	1	
	研究方向必修课	Advanced Reinforced Theory of Concrete Structure	2	36	1	
	课	Seismic Resistance of Engineering Structure	2	36	1	
		Structure Reliability	2	36	1	
		Matrix theory	3	54	1	
		The Nonlinear Finite Element Method	2	36	2	
}	先	Dynamics of Structures	2	36	2	
		FEM Software for General Purpose and Its Applications	2	36	2	
	多	Long Span Steel Structure	2	36	2	
į	果	Design of Tall Building Structure	2	36	2	
		Design Principle for Composite Structures of Steel and Concrete	2	36	2	
		Modern Concrete New Theory&Technology	2	36	2	

	Program Design for Reinforced Concrete Structures Analysis	2	36	2	
	Design for Durability of Concrete Structure	2	36	2	
	Reinforcement Theory and Its Application for Engineering Structures	2	36	2	
	The Testing and Measuring Structural Engineering	2	36	2	
	Modern Prestressed Concrete Structure	2	36	1	
补修课	Basic Principle of Concrete Structure				
课	Principle of Steel Structure				

		First Foreign Language	2	72	2	
	公共	Theory and Practice of Socialism with Chinese Characteristics	2	36	1	
	公共必修课	Dialectics of Nature	1	18	1	
	课	Numerical Analysis	3	54	1	
学		Mathematical Statistics	3	54	1	
位课	专业必修课	Fluid Mechanics	3	54	1	
	研	Fuzzy Mathematics	2	36	1	
	究方向	Practice & Equation of Mathematical Physics	3	54	2	
	研究方向必修课	The Principle of Water Quality Control	3	54	2	
	课	Lectures of New Technology of Water and Drainage Engineering	2	36	2	
		Matrix Theory	3	54	1	
		The Principle and Application of Fire Protection Engineering	2	36	2	
		Analyses and Control of the Unsteady Flow in Pipe Net	2	36	2	
		Water Quality Analysis & Application of Instruments	2	36	2	
		Microbial Ecology of Water Quality Control	2	36	2	
		Simulation & Control of Water Supply and Drainage Technology	2	36	2	
		The Optimization Theory and Design of Water Distribution and Drainage System	2	36	2	
		Water Quality Engineering				
		Water Quality Engineering				

		First Foreign Language	2	72	2	
	公	Theory and Practice of Socialism with Chinese Characteristics	2	36	1	
	公共必修课	Dialectics of Nature	1	18	1	
	课	Numerical Analysis	3	54	1	
		Mathematical Statistics	3	54	1	
学		Catastrophism	2	36	1	
位						

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Seismic Resistance of Engineering

研究方向必修课

	Nonlinear Vibration	2	36	2	
	The Optimization Theory and Design of Water Distribution Drainage System	2	36	2	
	Basic Principle of Concrete Structure				
	Principle of Steel Structure				

	公	First Foreign Language	2	72	2	
		Theory and Practice of Socialism with Chinese Characteristics	2	36	1	
	公共必修课	Dialectics of Nature	1	18	1	
	课	Numerical Analysis	3	54	1	
		Mathematical Statistics	3	54	1	
学 位 课	学科通开课	Elasticity and Plasticity	3	54	1	
		Finite Element Method	3	54	1	
	研	Bridge Stability and Dynamics	2	36	2	
	光方向	Higher Theory of Bridge Structure	2	36	2	
	研究方向必修课	Stability Analysis of Surrounding Rocks in Underground Engineering	2	36	2	
		Tunnel Engineering	2	36	2	
		Matrix Theory	3	54	1	
		Seismic Design of Bridge Structure	2	36	2	
		Reliability Theory of Bridge Structure	2	36	2	
选修		Security Control and Health Assessment of Bridges	2	36	2	
		Risk Theory and Application of Bridge Engineering	2	36	2	
设	术	Design Theory and Application of Modern Bridges	2	36	2	
		Rock Mechanics	2	36	2	
		Rheological Mechanics for Rock & Soil	2	36	2	
		Control to Stability of Undergroud Engineering	2	36	2	

	Monitoring and Analysis in Underground Engineering	2	36	2	
I	Bridges Structure I				
	Roch Mechanics and Engineering				

	公共必修课	First Foreign Language	2	72	2	
		Theory and Practice of Socialism with Chinese Characteristics	2	36	1	
		Dialectics of Nature	1	18	1	
		Matrix Theory	3	54	1	
学		Mathematical Statistics	3	54	1	
位 课	专业必修课	Engineering Economics	2	36	2	
	研究	Modern Construction Technology	2	36	2	
	研究方向必修课	Modern Enterprise Management	2	36	1	
	修课	Operational Research	3	54	1	
		Real Estate Investment Analysis and Decision-making	2	36	2	
选 修 课		Project Risk Management	2	36	2	
		Real Estate Appraisal	2	36	2	
		International Project Management	2	36	1	
		The Management of Investment	2	36	2	
		Civil Engineering Construction				
		Reinforced Concrete Structure				

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	First Foreign Language	2	72	2	
	Theory and Practice of Socialism with Chinese Characteristics	2	36	1	
课	Dialectics of Nature	1	18	1	
	Modern Environmental Science	2	36	1	
	Modern Environmental Biotechnology	2	36	2	
 学 科	Modern Environmental Management	2	36	2	
学科通 课	Pollution Prevention and Environmental Remediation	2	36	2	
	Eco-materials	2	36	2	
	Advanced Environmental Engineering	2	36	1	
	Environmental System Modeling and Realization	2	36	2	
研究方	Principles of Environmental Engineering	2	36	2	
研究方向必修	The Principle of Water Quality Control	3	54	2	
课 	Lectures of New Technology of Water and Drainage Engineering	2	36	2	
·	Modern Environmental Instrument Analysis Experiment	2	36	2	
	Matrix Theory	3	54	1	
	Biology of Water Quality Control	2	36	1	
	Computer Simulation and Control of Water Engineering	2	36	1	

	Water Supply Engineering		