4

3   6   2

3

2   5   1

5 ── 6   7

2

2   4   1

18   12

6

30

18   9   3

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25

20   5

1

2 − 3

3

70

60   75   60

20

10

1

1

80

2

50% 5000

30

40% 3000

1 1
SCI
2
1 1 SCI SSCI AHCI

2 2 SCI EI 1

3 3 CSSCI

3
1

5 3

2

SCI EI

2 " "

4

030301

Sociology

03   0303

1   Migration and Resettlement Sociology
2   Rural and Urban Sociology
3   Environmental Sociology
4   Social Assessment
5   Law Sociology
6   Population Sociology
7   Political Sociology

18   12   6

			First Foreign Language	81	3		
12		0900D12	Marxism in Contemporary China	36	2		
		0903D01	Social Theory	36	2		
		0903D02	Social Research Methodology	36	2		
		0903D03	Special Topic on Sociology	18	1		
		0903D04	Migration and Resettlement Study	36	2		2
		0903D05	Studies on Chinese Society	36	2		
		0903D06	Sociology on engineering project	36	2		
6			Second Foreign Language	54	2		
		0900D13	Selected Readings in Marxist classics	18	1		
		0903D07	Environment and society	36	2		2
		0903D08	Studies on land institute	36	2		
				36	2		

030501

Marxist Basic Theory

03   0305

1   Study of Marxist Basic Theory
2   Study of Marxism Education
3   Study of Marxism's Development in China

                    18   12   6

				81	3		
			First Foreign Language				
		0900D12	Marxism in Contemporary China	36	2		
		0906D03	Intensive Readings of Original Works of Marxism	36	2		
		0906D06	Topics in History of Marxism	36	2		
12		0906D05	Special Topic on Marxist Theory	18	1		
		0906D10	Special Topic on Marxism in China	36	2		2
		0906D07	Topics in Marxist Basic Theory	36	2		
			Second Foreign Language	54	2		
		0900D13	Sel gS g in ICQC s neor n o e k				

6

Ideological and Political Education

1   Theory and Practice of Ideological and Political
Education
2   Comparative Ideological and Political Education
3   Sociology of Ideological and Political Education
4   Ideological and Political Education &
Affairs Management of College Students

18   12   6

12			First Foreign Language	81	3		
		0900D12	Marxism in Contemporary China	36	2		
		0906D03	Intensive Readings of Original Works of Marxism	36	2		
		0906D06	Topics in History of Marxism	36	2		
		0906D05	Special Topic on Marxist Theory	18	1		
		0907D01	Frontier of Ideological and Political Education	36	2		2
		0907D02	Topics in Comparative Ideological and Political Education	36	2		
6			Second Foreign Language	54	2		
		0900D13	Selected Readings in Marxist classics	18	1		
		0906D03	Ideological and Political Education & Affairs Management of College Students	36	2		2
		0906D12	Traditional Culture and Ideological and Political Education	36	2		
		0906D11	Philosophy of Ideological and Political Education	36	2		
				36	2		

Physical Oceanography

07   0707

1   Ocean waves

2   Ocean circulation   environment and substance
transport

3   Disastrous ocean process

4   Climate and sea level change

5   Engineering oceanography

18   12   6

12		First Foreign Language	81				

080104

Engineering Mechanics

08   0801

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1   Mechanics of Catastrophic Failure

2   Computational mechanics and virtual simulation

3   Experiment Detection and Strengthening
of Defective Structures

4   Reliability analysis and optimization design of en-
gineering structures

5   Dynamics of Structures and Applications to Earth-
quake Engineering

18   12   6

			First Foreign Language	81	3		
		0900D12	Marxism in Contemporary China	36	2		
12		1000D01	Applied Functional Analysis	54	3		4
		1000D02	Modern Methods in PDE	36	2		
		1000D03	Stochastic Differential Equations	36	2		
		1000D12	Dynamics System Chaos & Fractal	54	3		
		1302D01	Special Topic on Engineering Mechanics	18	1		2
		1302D02	Advanced Structural Experimental Mechanics & Testing Techniques	36	2		
		1302D03	Constitutive Theory of Engineering Materials	36	2		
		1302D04	Modeling & Numerical Analysis of Engineering Mechanics	36	2		
		1302D05	Advanced Machanics	36 36	2 2		
		1302D06	Advanced Computational Mechanics	36	2		
			Second Foreign Language	54	2		
		0900D13	Selected Readings in Marxist classics	18	1		

1302D05 M   n

6

080802

Power System and its Automation

08   0808

				81	3		
12			First Foreign Language	81	3		
		0900D12	Marxism in Contemporary China	36	2		
		1000D01	Applied Functional Analysis	54	3		4
		1000D02	Modern Methods in Partial Differential Equations	36	2		
		1000D03	Random Differential Equations	36	2		
		1000D12	Dynamical Systems　Chaos and Fractals	54	3		
		1000D05	Reliability analysis	36	2		
		1000D09	Game Theory	36	2		
		0601D10	Special Topics on Power System and Its Automation	18	1		2
		0601D08	Theory and Method of Power System Modeling	36	2		
		0601D04	Intelligent Control and System	36	2		
		0601D02	Power System Nonlinear Analysis and Control	36	2		
6			Second Foreign Language		2		
		0900D13	Selected Readings in Marxist classics	18	1		
				36	2		
				36	2		

081203

Computer Application Technology

08

			First Foreign Language	81	3		
		0900D12	Marxism in Contemporary China	36	2		
		1000D14	Multivariate Statistical Analysis	36	2		4
		1000D04	Queuing Theory	36	2		
		0705D11	Advanced Logic	36	2		
		0705D03	Computability & Computational Complexity	36	2		
		0705D04	Formal Semantics	36	2		
12		0705D01	Special Topics on Computer Application Technology	18	1		
		0705D05	Novel Software Architectures	36	2		2
		0705D06	Principles of Artificial Neural Networks	36	2		
		0705D07	Web Knowledge Representation on the Web	36	2		
		0701D04	Multi – sources Information Fusion	36	2		
		0705D12	Visiulization in Scientific Computing	36	2		
			Second Foreign Language	54	2		
6		0900D13	Selected Readings in Marxist classics	18	1		
		0705D10	Scientific Writing & Publishing	36	2		
				36	2		

081401

Geotechnical Engineering

08   0814

1   Fundamental behaviour and constitutive behaviour of soil

2   Designing theory and method for high earth dam

3   Soft soil improvement and foundation engineering

4   Rock mechanics and Rock mass engineering

5   Seepage theory and testing for geomaterial

18   12   6

			First Foreign Language	81	3		
12		0900D12	Marxism in Contemporary China	36	2		
		1000D02	Modern Methods in Partial Differential Equations	36	2		4
		1000D03	Random Differential Equations	36	2		
		1000D05	Reliability Analysis	36	2		
		1000D06	Artificial Neural Networks	36	2		
		1000D12	Dynamical Systems Chaos and Fractals	54	3		
		0402D01	Special Topics on Geotechnical Engineering	18	1		2
		0402D02	Modern Geomechanics	36	2		
		0402D03	Unsaturated Soil Mechanics	36	2		
		0402D04	Modern Technology in Geotechnical Engineering	36	2		
6			Second Foreign Language	54	2		
		0900D13	Selected Readings in Marxist classics	18	1		
				36	2		
				36	2		

081402

Structural Engineering

08   0814

1   The basic theory and modern-times
calculation method of R. C. structures

2   The basic theory and analysis method of
steel structures

3   –   The behavior and design of
new-type structures and the composite structures of steel and concrete

4   The appraisal strengthening retrofit
and durability of engineering structures

5   The aseismic analysis and vibration control of en-
gineering structures

18   12   6

				81	3		
12			First Foreign Language	81	3		
		0900D12	Marxism in Contemporary China	36	2		
		1000D01	Applied Functional Analysis	54	3		4
		1000D02	Modern Methods in Partial Differential Equations	36	2		
		1000D03	Random Differential Equations	36	2		
		1000D05	Reliability Analysis	36	2		
		1000D06	Artificial Neural Networks	36	2		
		1000D12	Dynamical Systems Chaos and Fractals	54	3		
		0403D01	Special Topic on Structural Engineering	18	1		2
		0403D02	Advanced Reinforced Concrete Structures	36	2		
		0403D03	Advanced Steel Structures	36	2		
		1302D02	Advanced Structural Experimental Mechanics & Testing Technique	36	2		
6			Second Foreign Language	54	2		
		0900D13	Selected Readings in Marxist classics	18	1		
				36	2		
				36	2		

081403

Urban Construction

08   0814

				81	3		
			First Foreign Language	81	3		
		0900D12	Marxism in Contemporary China	36	2		
12		0501D02	Bio – chemical Engineering	36	2		2 – 4
		0501D03	Advanced Organic Analysis	36	2		
		0501D04	Chemical Kinetics and Reactor Theory	36	2		
		0501D05	Ecological Construction and Management	36	2		
		0501D08	Groundwater and Medium Pollution Control	36	2		
		0501D09	Environment and Ecological Hydraulics	36	2		
		0501D01	Special Topic on Urban Construction	18	1		2 – 4
		0599D07	Modern Detecting Technology	36	2		
		0501D06	Modern Water and Wastewater Treatment	36	2		
		0501D07	Theory and Technology of Water Pollution Control	36	2		
6			Second Foreign Language	54	2		
		0900D13	Selected Readings in Marxist classics	18	1		
				36	2		
				36	2		

			First Foreign Language	81	3	
		0900D12	Marxism in Contemporary China	36	2	
		1000D01	Applied Functional Analysis	54	3	
		1000D02	Modern Methods in Partial Differential Equations	36	2	
		1000D03	Random Differential Equations	36	2	4
		1000D05	Reliability Analysis	36	2	
		1302D04	FEM Modeling & Numerical Analysis of Engineering Mechanics	36	2	
12		0405D01	Special Topics on Disaster Prevention Mitigation and Protection Engineering	18	1	
		0405D02	Anti-seismic and Prevention of Lifeline Engineering	36	2	
		0402D02	Advanced Geomechanics	36	2	
		0405D03	Explosion Dynamics	36	2	2
		0405D04	Disaster Science	36	2	
		1300D03	Advanced Dynamics	36	2	
6			Second Foreign Language	54	2	
		0900D13	Selected Readings in Marxist classics	18	1	
				36	2	
				36	2	

081406

Bridge and Tunnel Engineering

08   0814

12			First Foreign Language	81	3		
		0900D12	Marxism in Contemporary China	36	2		
		1000D01	Applied Functional Analysis	54	3		4 – 5
		1000D02	Modern Methods in Partial Differential Equations	36	2		
		1000D03	Random Differential Equations	36	2		
		1000D05	Reliability Analysis	36	2		
		1000D06	Artificial Neural Networks	36	2		
		1000D12	Dynamical Systems Chaos and Fractals	54	3		
		0406D03	Special Topic on Bridge and Tunnel Engineering	18	1		2
		0406D04	Cable-supported Bridge	36	2		
		0406D05	Bridge Vibration and Stability Analysis	36	2		
		0402D04	Modern Technology in Geotechnical Engineering	36	2		
6			Second Foreign Language	54	2		2
		0900D13	Selected Readings in Marxist classics	18	1		
		1302D02	Advanced Structural Experimental Mechanics & Testing Technique	36	2		
		0406D06	Bridge Seismic and Damage Control	36	2		
		0406D07	Composite and Novel Prestressed Concrete Bridge	36	2		
				36	2		

081420

Civil Engineering Materials

08   0814

1   Concrete Materials

2   Composites

3   New Construction Materials

4   Structural Metal Materials

5   Geotechnical Synthetic Materials

18   12   6

12			First Foreign Language	81	3		
		0900D12	Marxism in Contemporary China	36	2		
		1000D03	Random Differential Equations	36	2		4
		1000D05	Reliability Analysis	36	2		
		1000D06	Artificial Neural Networks	36	2		
		1000D02	Modern Methods in Partial Differential Equations	36	2		
		1000D13	Graph Theory	36	2		
		1000D04	Queuing Theory	36	2		
		1301D01	Special Topic on Civil Engineering Materials	18	1		2
		1301D04	Plastic Deformation and Fracture	36	2		
		1301D02	Modern Concrete Technology	36	2		
6			Second Foreign Language	54	2		
		0900D13	Selected Readings in Marxist classics	18	1		2
		1301D03	Surface and Interface of Materials	36	2		
				36	2		
				36	2		

081501

Hydrology and Water Resources

08   0815

1   Watershed Hydrological Simulation and Fore-
casting
2   Theory of Hydrological Uncertainty and Applica-
tion
3   Water Resources System and Sustainable Uti-
lization
4   Groundwater System Theory and Control
5   Theory and techniques of hydroinformatics
6   Ecohydrology and Environmental hydrology

18   12   6

12			First Foreign Language	81	3		
		0900D12	Marxism in Contemporary China	36	2		
		1000D01	Applied Functional Analysis	54	3		4
		1000D03	Random Differential Equations	36	2		
		1000D04	Queuing Theory	36	2		
		1000D05	Reliability Analysis	36	2		
		1000D06	Artificial Neural Networks	36	2		
		1000D12	Dynamical Systems Chaos and Fractals	54	3		
		0101D99	Special Topic on Water Resources and Hydrology	18	1		2
		0101D03	Multi – objective Theory of Water Resources Systems	36	2		
		0101D08	Distributed Hydrological Model	36	2		
		0101D04	Advanced Groundwater Dynamics	36	2		
6			Second Foreign Language	54	2		
		0900D13	Selected Readings in Marxist classics	18	1		2
		0101D12	Theory of Digital Watershed	36	2		
		0101D13	Uncertainty Analysis of Hydrology & Water Resources	36	2		
		0101D15	Global Climatic Change and Water Cycling	36	2		
				36	2		
				36	2		

				81	3	Ü
		0900D12	Marxism in Contemporary China	36	2	
12		1000D01	Applied Functional Analysis	54	3	
		1000D02	Modern Methods in PDE	36	2	
		1000D03	Random Differential Equations	36	2	
		1000D06	Artificial Ne			

First Foreign Language

y

			First Foreign Language	81	3		
		0900D12	Marxism in Contemporary China	36	2		
12		1000D02	Modern Methods in PDE	36	2		4
		1000D01	Applied Functional Analysis	54	3		
		1000D12	Dynamical Systems Chaos and Fractals	54	3		
		1000D03	Random Differential Equations	36	2		
		1000D06	Artificial Neural Networks	36	2		
		0202D11	Special Topic on Hydraulic Structure	18	1	/	
		0202D03	Safety Monitoring Theory &Its Application for Hydraulic Structures	36	2		
		0202D04	Dynamics Analysis & Model Experimental of Hydraulic Structures	36	2		
		0202D07	The Theory and Application of Structure Optimization Design	36	2		
		0202D08	Mechanics of Granular Materials	36	2		2
		0205D03	Safety Management of Water Conservancy Project	36	2		
		0202D10	Mechanical Properties and Constitutive Modeling of Soils	36	2		
		0202D05	Modern Calculational Methods for Hydraulic Structures	36	2		
		0202D12	Stability of Hydraulic & Geotechnical Engineering	36	2		
6			Second Foreign Language	54	2		
		0900D13	Selected Readings in Marxist classics	18	1		
				36	2		
				36	2		

081504

Water Conservancy and Hydropower Engineering

08 0815

1 Water resources and hydropower system planning and development strategy

2 / Hydraulics/structure of hydropower plant and pump station

3 Hydraulic transient and safety control of hydraulic unit

4 Technique of pumped – storage project and renewable energy

5 Agricultural water conservancy and water – saving irrigation

18 12 6

			First Foreign Language	81	3		
		0900D12	Marxism in Contemporary China	36	2		
		1000D01	Applied Functional Analysis	54	3		
		1000D02	Modern Methods in Partial Differential Equations	36	2		
		1000D03	Random Differential Equations	36	2		4 – 5
		1000D05	Reliability Analysis	36	2		
		1000D12	Dynamical Systems Chaos and Fractals	54	3		
12		0203D05	Special Topic on Water Conservancy and Hydropower Engineering	18	1	／	
		0203D02	Fluid Transients II	36	2		
		0203D03	New Theory of Water Resources and Hydropower System Planning	36	2		2
		0203D04	Detection & Fault Diagnosis of Hydroelectric Units	36	2		
		0206D02	Modern Theory of Irrigation and Drainage	36	2		
			Second Foreign Language	54	2		
6		0900D13	Selected Readings in Marxist classics	18	1		
				36	2		
				36	2		

081505

Harbor　Coastal and Offshore Engineering

08　　　　　　　　　　　　　　　　　　0815

1　　　　　　　　　　　　　　Hydrodynamics of estuary　coastal and off-
shore engineering

2　　　　　　　　　　　Coastal storm disaster and its mitigation

3　　　　　　　　　　　Sedimentation in harbor and navigation engineering
and dredging

4　　　　　　　　　　　　　　　　Engineering structure and its inter-
action with surrounding medium

5　　　　　　　　　　　　Economy　planning and management of waterway
transportation engineering

18　　　　　　　　　　　12　　　　　　　　　　　6

			First Foreign Language	81	3	
12		0900D12	Marxism in Contemporary China	36	2	
		1000D01	Applied Functional Analysis	54	3	4
		1000D02	Modern Methods in Partial Differential Equations	36	2	
		1000D04	Queuing Theory	36	2	
		1000D05	Reliability Analysis	36	2	
		1000D06	Artificial Neural Networks	36	2	
		1000D12	Dynamical Systems Chaos and Fractals	54	3	
		0301D01	Special Topic on Harbor Coastal and Offshore Engineering	18	1	2
		0301D02	Advanced Coastal Dynamics	36	2	
		0301D03	Advanced Theory and Method of Structure Analysis	36	2	
6			Second Foreign Language	54	2	
		0900D13	Selected Readings in Marxist classics	18	1	
				36	2	
				36	2	

Ecological Water Conservancy

1   Eco – Hydrology and Eco – Hydraulics

2   Protection and Restoration of Water Eco – environ-
ment

3   Planning and Management of Ecological
Water Conservancy and Ecological Impacts of Water Projects

4   Water and Soil Resources Utilization Ecological
Safety

18   12   6

12			First Foreign Language	81	3		
		0900D12	Marxism in Contemporary China	36	2		
		1000D01	Applied Functional Analysis	54	3		4
		1000D02	Modern Method of PDE	36	2		
		1000D06	Artificial Neural Network	36	2		
		1000D12	Dynamic System Chaos & Fractal Geometry	54	3		
		0102D99	Special Topic on Eco – hydrology	18	1		2
		0102D02	Watershed Ecology	36	2		
		0102D03	Eco – hydraulics	36	2		
		0102D04	Engineering Ecology	36	2		
		0102D05	Remediation Ecology	36	2		
				36	2		
6			Second Foreign Language	54	2		
		0900D13	Selected Readings in Marxist classics	18	1		
				36	2		
				36	2		

081521

Urban Water Affairs

08   0815

1.   Urban Water Cycle Mechanism
2.   Urban Water Engineering Planning and Management
3.   Urban Water Environment

                    18   12   6

12			First Foreign Language	81	3		
		0900D12	Marxism in Contemporary China	36	2		
		1000D01	Applied Functional Analysis	54	3		4
		1000D12	dynamical systems chaos and fractals	54	3		
		1000D03	Random Differential Equations	36	2		
		1000D09	Game Theory	36	2		
		1000D06	Artificial Neural Network	36	2		
		0103D21	Special Topics on Urban Water Affairs	18	1		2
		0103D08	Water Engineering Planning	36	2		
		0102D05	Remediation Ecology	36	2		
		0101D05	Theory and Methods of Water Environment	36	2		
6			Second Foreign Language	54	2		2
		0900D13	Selected Readings in Marxist classics	18	1		
		0103D03	Urban Water Resources Economics	36	2		
		0101D08	Distributed Hydrological Model	36	2		
				36	2		
				36	2		

081522

Coastal Resources and Environment

08   0815

1   Coastal dynamics and disasters

2   Coastal environment monitoring and information
technology

3   Coastal resources exploitation   manage-
ment and sustainable development

4   Coastal engineering and landscape

5   Coastal ecological environment and wetland
utilization protection

18   12   6

				81	3		
12			First Foreign Language				
		0900D12	Marxism in Contemporary China	36	2		
		1000D01	Applied Functional Analysis	54	3		4
		1000D02	Modern Methods in Partial Differential Equations	36	2		
		1000D04	Queuing Theory	36	2		
		1000D05	Reliability Analysis	36	2		
		1000D06	Artificial Neural Networks	36	2		
		1000D12	Dynamical Systems Chaos and Fractals	54	3		
		1000D09	Game Theory	36	2		
		0102D03	Ecohydraulics	36	2		
		0302D01	Special Topic on Coastal Resources and Environment	18	1		2
		0301D02	Advanced Coastal Dynamics	36	2		
		0302D02	Ocean Environment Research Development	36	2		
6			Second Foreign Language	54	2		
		0900D13	Selected Readings in Marxist classics	18	1		
				36	2		
				36	2		

081523

081524

Hydroinformatics

08   0815

1   Analysis & Integration of Information Systems
2   Information Acquisition & Processing
3   Theory & Technology of Hydroinformatics

18   12   6

12			First Foreign Language	81	3		
		0900D12	Marxism in Contemporary China	36	2		
		1000D01	Applied Functional Analysis	54	3		4
		1000D12	Dynamics System & Chaos	54	3		
		1000D14	Multivariate Statistical Analysis	36	2		
		1000D04	Queuing Theory	36	2		
		0705D06	Principles of Artificial Neural Networks	36	2		
		0701D01	Special Topic on Hydroinformatics	18	1		2
		0701D02	Analysis & Modeling of Information System	36	2		
		0701D04	Multi – sources Information Fusion	36	2		
		0705D05	Novel Software Architectures	36	2		
		0705D12	Visiulization in Scientific Computing	36	2		
6			Second Foreign Language	54	2		
		0900D13	Selected Readings in Marxist classics	18	1		
			Scientific Writing & Publishing	36	2		
				36	2		

081525

Groundwater Science & Engineering

08   0815

1	Fluid mechanics in porous media
2	Groundwater problems in Engineering
3	Groundwater resources & Environment

18   12   6

12			First Foreign Language	81	3		4
		0900D12	Marxism in Contemporary China	36	2		
		1000D01	Applied Functional Analysis	54	3		
		1000D02	Modern Methods in Partial Differential Equations	36	2		
		1000D03	Random Differential Equations	36	2		
		1000D05	Reliability Analysis	36	2		
		1604D02	Geo – modeling & Numerical Analysis	36	2		
		1602D01	Special Topics on Groundwater Science and Engineering	18	1		2
		1602D02	Theory and Method for Tracing Groundwater	36	2		
		1602D03	Dynamics of Groundwater in Rock Mass	36	2		
		1602D04		36	2		
6			Second Foreign Language	54	2		
		0900D13	Selected Readings in Marxist classics	18	1		
				36	2		
				36	2		

081526

Water Conservancy and Hydropower Construction Engineering Management

08   0815

1   Project Management of Water Conservancy and Hydropower Construction

2   Water Conservancy and Hydropower System Planning and Operation Management

3   Safety Management of Water Conservancy and Hydropower Engineering

4   Comprehensive Evaluation of Water Conservancy and Hydropower Engineering

5   Comprehensive Regulation Technology of Hydraulic Structures

18   12   6

12			First Foreign Language	81	3		
		0900D12	Marxism in Contemporary China	36	2		
		1000D05	Reliability Analysis	36	2		4
		1000D02	Modern Methods in PDE	36	2		
		1000D03	Random Differential Equations	36	2		
		1000D06	Artificial Neural Networks	36	2		
		0801D21	Management System Engineering	36	2		
		0205D07	Special Topics on Water Conservancy and Hydropower Construction Management	18	1	/	2
		0205D02	Running Management on Water Conservancy and Hydropower	36	2		
		0205D03	Safety Management of Water Conservancy Project	36	2		
		0205D04	Technology of Water Conservancy Information	36	2		
6			Second Foreign Language	54	2		
		0900D13	Selected Readings in Marxist classics	18	1		
				36	2		
				36	2		

081527

Science of Water System

08   0815

1   Nonlinear Dynamical Systems in Water Science

2   Modeling and Simulation in Water System
3   Uncertainty Theory and Mothed in Water
Science

18   12   6

12			First Foreign Language	81	3		
		0900D12	Marxism in Contemporary China	36	2		
		1000D20	Linear Partial Differential Equations and Applications	54	3		3
		1000D21	Introduction to Linear Differential Systems	54	3		
		1000D22	Variational Methods and Applications	54	3		
		1000D23	Special Topic on Mathematics	18	1		
		1000D24	Nonlinear Partial Differential Equations and Applications	54	3		3
		1000D07	Singular Dynamical Systems	54	3		
		1000D25	Nonlinear Analysis	54	3		
6			Second Foreign Language	54	2		2
		0900D13	Selected Readings in Marxist classics	18	1		
		1000D10	Topic on Partial Differential Equations	36	2		
		1000D11	Topic on Dynamical Systems	36	2		
		1000D26	Topic on Nonlinear Analysis	36	2		
				36	2		
				36	2		

081601

Geodesy and Surveying Engineering

08   0816

1	Theory and Method of Modern Geodesy
2	Theory and Technology of Precise Engineering Surveying
3	Theory and Technology of Safety Monitoring
4	Satellite Navigation and Positioning
5 3S	Integration Technology and Application of RS/GPS/GIS

18   12   6

12			First Foreign Language	81	3		
		0900D12	Marxism in Contemporary China	36	2		
		1000D01	Applied Functional Analysis	54	3		4
		1000D02	Modern Methods in Partial Differential Equations	36	2		
		1000D06	Artificial Neural Networks	36	2		
		1000D12	Dynamical Systems Chaos and Fractals	54	3		
		1603D01	Special Topics on Geodesy and Surveying Engineering	18	1		2
		1603D02	Advances in Modern Surveying Science and technology	36	2		
		1603D03	Theory and Applications of Safety Monitoring	36	2		
		1603D04	Applications of Optimal Estimation Theory in Surveying	36	2		
		1603D05	Special Topics on Data Processing Theory of Geomatics	18	1		
		1603D06	Theory of Modern Geodesy	18	1		
6			Second Foreign Language	54	2		
		0900D13	Selected Readings in Marxist classics	18	1		
				36	2		
				36	2		

12

082802

Soil and water engineering

08   0828

1   Water – saving irrigation and drainage
2   Efficient utilization of agricultural soil and water re-
sources

3   Modern Management of Irrigation Districts
4   Protection of agricultural soil and water environment

18   12   6

			First Foreign Language	81	3		
12		0900D12	Marxism in Contemporary China	36	2		
		1000D01	Applied Functional Analysis	54	3		4
		1000D02	Modern Methods in PDE	36	2		
		1000D03	Random Differential Equations	36	2		
		1000D05	Reliability Analysis	36	2		
		1000D12	Dynamic System Chaos and Fractals	54	3		
		0206D01	Special Topics on Agricultural Soil and Water Engineering	18	1	/	2
		0206D02	Modern Theory of Irrigation and Drainage	36	2		
		0206D03	Modern Agricultural Soil and Water Environment	36	2		
6			Second Foreign Language	54	2		
		0900D13	Selected Readings in Marxist classics	18	1		
				36	2		
				36	2		

			First Foreign Language	81	3		
		0900D12	Marxism in Contemporary China	36	2		
12		1000D01	Applied Functional Analysis	54	3		4
		1000D02	Modern Methods in PDE	36	2		
		1000D03	Stochastic Differential Equation	36	2		
		1000D12	Dynamical Systems Chaos and Fractals	54	3		
		0599D02	Modern Chemistry	36	2		
		0599D03	Modern Biology	36	2		
		0599D01	Special Topic on Environmental Science & Engineering	18	1		2
		0599D04	Development of Environmental Science & Technology	36	2		
		0599D05	Ecological System Theory	36	2		
		0599D06	Modern Environmnetal Simulation Technology	36	2		
6			Second Foreign Language	54	2		2
		0900D13	Selected Readings in Marxist classics	18	1		
		0599D07	Modern Detecting Technology	36	2		
				36	2		
				36	2		

Management Science and Engineering

1		The Theory and Application of Management Science
2		Project Management and Engineering Management
3		Financial Engineering and Investment Management
4		Information Management and E – commerce
5		Strategic Management Planning and Decision Making

18   12   6

			First Foreign Language	81	3		
		0900D12	Marxism in Contemporary China	36	2		
		0899D53	Management Thoughts	36	2		
		0899D52	Research Methods of Management	36	2		
12		0844D59	Advances in Management Seminar on Advances in Management Science and Engineering		1		
		0801D21	Management System Engineering	36	2		
		0844D52	Theory and Method of Project Management	36	2		
		0844D51	Information Management and Decision Supporting System	36	2		2
		0844D58	Financial Engineering and Risk Management	36	2		
		0844D55	Engineering Management of Water Resources and Hydropower	36	2		
			Second Foreign Language	54	2		
		0900D13	Selected Readings in Marxist classics	18	1		
6		0899D02	Modern Economics	36	2		
		0899D51	Theory and Method of Decision Making	36	2		2
		0844D53	System Model and Simulation	36	2		
		0844D54	Logistics and Supply Chain Management	36	2		
				36	2		

120204

Technology Economics and Management

12 1202

1 Strategy Technology and Management t

2 Technology Economics and Management in Resources

3 Technology Economics and Managemen in Water Resources and Hydropower

4 Innovation of Technology and Knowledge Management

5 Human Resources and Organization Management

6 Service Outsourcing and Marketing Management

18 12 6

			First Foreign Language	81	3		
		0900D12	Marxism in Contemporary China	36	2		
		0899D53	Management Thoughts	36	2		
		0899D52	Research Methods of Management	36	2		
12		0805D61	Advances in Management Seminar on Advances in Technology Economics and Management		1		
		0805D53	Strategy Technology and Management	36	2		
		0805D51	Technology Economics and Management in Resources	36	2		2
		0805D55	Technology Economics and Management in Water Resources and Hydropower	36	2		
		0805D60	Innovation of Technology and Knowledge Management	36	2		
		0805D56	Human Resources and Organization Management	36	2		
		0805D62	Service Outsourcing and Marketing Management	36	2		
6			Second Foreign Language	54	2		
		0900D13	Selected Readings in Marxist classics	18	1		
		0899D51	Theory and Method of Decision Making	36	2		
		0899D02	Modern Economics	36	2		2
		0805D57	Competitive Intelligence	36	2		
		0805D52	Resources Accounting	36	2		
		0805D54	Marketing Behaviour	36	2		
				36	2		

河海大学

博士研究生培养方案