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030301

Sociology

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0303

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|---|--------------------------------------|
| 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 |

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|----|---------|---------------------------------------|----------------------------------|----|---|---|---|
| | | | | | | | |
| 12 | | | First Foreign Language | 81 | 3 | | |
| | | 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 | | 2 |
| | | 0903D04 | Migration and Resettlement Study | 36 | 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 | | | |
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Marxist Basic Theory

03

0305

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

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|----|---------|---------|---|----|---|--|---|
| | | | | | | | |
| 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 | | 2 |
| | | 0906D10 | Special Topic on Marxism in China | 36 | 2 | | |
| | | 0906D07 | Topics in Marxist Basic Theory | 36 | 2 | | |
| | | | Second Foreign Language | 54 | 2 | | |
| | 0900D13 | | Selel | | | | |

030505

Ideological and Political Education

03

0305

| | |
|---|--|
| 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 |

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| | | | | | | | |
| 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 | | 2 |
| | | 0907D01 | Frontier of Ideological and Political Education | 36 | 2 | | |
| | | 0907D02 | Topics in Comparative Ideological and Political Education | 36 | 2 | | |
| 6 | | | Second Foreign Language | 54 | 2 | | 2 |
| | 0900D13 | | Selected Readings in Marxist classics | 18 | 1 | | |
| | 0906D03 | | Ideological and Political Education & Affairs Management of College Students | 36 | 2 | | |
| | 0906D12 | | Traditional Culture and Ideological and Political Education | 36 | 2 | | |
| | 0906D11 | | Philosophy of Ideological and Political Education | 36 | 2 | | |
| | | | | 36 | 2 | | |
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070701

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 |

| First Foreign Language | | 81 | 3 |
|------------------------|--|----|---|
| 12 | | | |
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080104

Engineering Mechanics

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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 | |

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| | | | | | | | |
| 12 | | | First Foreign Language | 81 | 3 | | |
| | | 0900D12 | Marxism in Contemporary China | 36 | 2 | | |
| | | 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 Dynamics | 36 | 2 | | |
| | | 1302D06 | Advanced Computational Mechanics | 36 | 2 | | |
| | | | Second Foreign Language | 54 | 2 | | |
| 0900D13 | | Selected Readings in Marxist classics | 18 | 1 | | | |
| 1302D07 | | | | | | | |

080802

Power System and its Automation

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|----|--|---------|---|----|---|--|---|
| | | | | | | | |
| 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 | | |
| | | 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 | | |
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081203

Computer Application Technology

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| | | | | | | | |
| 12 | | | 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 | | |
| | | 0705D01 | Special Topics on Computer Application Technology | 18 | 1 | | |
| | 0705D05 | Novel Software Architectures | 36 | 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 | | | |
| 6 | | Second Foreign Language | 54 | 2 | | | |
| | 0900D13 | Selected Readings in Marxist classics | 18 | 1 | | | |
| | 0705D10 | Scientific Writing & Publishing | 36 | 2 | | | |
| | | | 36 | 2 | | | |
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081401

Geotechnical Engineering

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| | |
|-----------------|--|
| 1 | Fundamental behaviour and constitutive be- |
| haviour 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 |

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| | | | | | | | |
| 12 | | | First Foreign Language | 81 | 3 | | |
| | | 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 | | |
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081402

Structural Engineering

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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 |

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| | | | | | | | |
| 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 | |
| | 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 | | |
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081403

Urban Construction

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0814

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|----|---------|---------------------------------------|--|-------------------------------------|----|---|-------|
| | | | | | | | |
| 12 | | | First Foreign Language | 81 | 3 | | 2 – 4 |
| | | 0900D12 | Marxism in Contemporary China | 36 | 2 | | |
| | | 0501D02 | Bio – chemical Engineering | 36 | 2 | | |
| | | 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 | |
| | 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 | | | |
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| | | | | | | | |
| 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 | | |
| | | 1302D04 | FEM Modeling & Numerical Analysis of Engineering Mechanics | 36 | 2 | | |
| | | | | | | | |
| | | 0405D01 | Special Topics on Disaster Prevention Mitigation and Protection Engineering | 18 | 1 | | 2 |
| | | 0405D02 | Anti-seismic and Prevention of Lifeline Engineering | 36 | 2 | | |
| | | 0402D02 | Advanced Geomechanics | 36 | 2 | | |
| | | 0405D03 | Explosion Dynamics | 36 | 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 | | |
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081406

Bridge and Tunnel Engineering

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| | | | | | | | |
| 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 | | |
| | | 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 | | |
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081420

Civil Engineering Materials

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0814

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|---|----------------------------------|
| 1 | Concrete Materials |
| 2 | Composites |
| 3 | New Construction Materials |
| 4 | Structural Metal Materials |
| 5 | Geotechnical Synthetic Materials |

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|----|--|---------|--|----|---|---|
| | | | | | | |
| 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 | |
| | | 1301D03 | Surface and Interface of Materials | 36 | 2 | 2 |
| | | | | 36 | 2 | |
| | | | | 36 | 2 | |
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|----------|---|
| 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 |

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| | | | | | | |
| 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 | |
| | | 0101D12 | Theory of Digital Watershed | 36 | 2 | 2 |
| | | 0101D13 | Uncertainty Analysis of Hydrology & Water Resources | 36 | 2 | |
| | | 0101D15 | Global Climatic Change and Water Cycling | 36 | 2 | |
| | | | | 36 | 2 | |
| | | | | 36 | 2 | |
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| | | | | | |
| 12 | | First Foreign Language | 81 | 3 | |
| | 0900D12 | Marxism in Contemporary China | 36 | 2 | |
| | 1000D01 | Applied Functional Analysis | 54 | 3 | |
| | 1000D02 | Modern Methods in PDE | 36 | 2 | |
| | 1000D03 | Random Differential Equations | 36 | 2 | |
| | 1000D06 | Artificial Ne | | | |
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| | | | | | | | |
| 12 | | | First Foreign Language | 81 | 3 | | |
| | | 0900D12 | Marxism in Contemporary China | 36 | 2 | | |
| | | 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 | | 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 | | |
| | | 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 | | | |
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|---|---|
| 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 |

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| | | | | | | |
| 12 | | | 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 | |
| | | 1000D05 | Reliability Analysis | 36 | 2 | |
| | | 1000D12 | Dynamical Systems Chaos and Fractals | 54 | 3 | |
| | | | | | | 4 – 5 |
| | | 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 | |
| | | 0203D04 | Detection & Fault Diagnosis of Hydroelectric Units | 36 | 2 | |
| | | 0206D02 | Modern Theory of Irrigation and Drainage | 36 | 2 | |
| | | | | | | 2 |
| 6 | | | Second Foreign Language | 54 | 2 | |
| | | 0900D13 | Selected Readings in Marxist classics | 18 | 1 | |
| | | | | 36 | 2 | |
| | | | | 36 | 2 | |
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|---|---|
| 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 |

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| | | | | | | | |
| 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 | | |
| | | 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 | |
| | 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 | | |
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081520

Ecological Water Conservancy

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| | | |
|---|--|----|
| 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 |

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| | | | | | | |
| 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 | |
| | | 0102D02 | Watershed Ecology | 36 | 2 | 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 | |
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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

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|----|--|---------|---|----|---|--|---|
| | | | | | | | |
| 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 | | |
| | | 0900D13 | Selected Readings in Marxist classics | 18 | 1 | | |
| | | 0103D03 | Urban Water Resources Economics | 36 | 2 | | 2 |
| | | 0101D08 | Distributed Hydrological Model | 36 | 2 | | |
| | | | | 36 | 2 | | |
| | | | | 36 | 2 | | |
| | | | | | | | |
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Coastal Resources and Environment

08

0815

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|---|---|----|
| 1 | Coastal dynamics and disasters | |
| 2 | Coastal environment monitoring and information technology | |
| 3 | Coastal resources exploitation management and sustainable development | |
| 4 | Coastal engineering and landscape | |
| 5 | Coastal ecological environment and wetland utilization protection | |
| | | |
| | 18 | 12 |
| | | 6 |

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|----|--|---------|--|----|---|--|---|
| | | | | | | | |
| 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 | | |
| | | 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 | | |
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081523

081524

Hydroinformatics

08

0815

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

18

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|---------|---------|---|--|----|---|---|---|
| | | | | | | | |
| 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 | | |
| | 0701D02 | Analysis & Modeling of Information System | 36 | 2 | | 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 | | | |
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081525

Groundwater Science & Engineering

08

0815

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

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| | | | | | | | |
| 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 | | |
| | | 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 | | | |
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081526

Water Conservancy and Hydropower Construction
Engineering Management

08

0815

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|---|---|
| 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

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|----|--|---------|--|----|---|---|
| | | | | | | |
| 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 | / |
| | | 0205D02 | Running Management on Water Conservancy and Hydropower | 36 | 2 | 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 | |
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081527

Science of Water System

08

0815

| | |
|---------|---|
| 1 | Nonlinear Dynamical Systems in Water Sci- |
| ence | |
| 2 | Modeling and Simulation in Water System |
| 3 | Uncertainty Theory and Mothed in Water |
| Science | |

18

12

6

| | | | | | | | |
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| | | | | | | | |
| 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 | | 3 |
| | | 1000D24 | Nonlinear Partial Differential Equations and Applications | 54 | 3 | | |
| | | 1000D07 | Singular Dynamical Systems | 54 | 3 | | |
| | | 1000D25 | Nonlinear Analysis | 54 | 3 | | |
| 6 | | | Second Foreign Language | 54 | 2 | | |
| | 0900D13 | | Selected Readings in Marxist classics | 18 | 1 | | |
| | 1000D10 | | Topic on Partial Differential Equations | 36 | 2 | | 2 |
| | 1000D11 | | Topic on Dynamical Systems | 36 | 2 | | |
| | 1000D26 | | Topic on Nonlinear Analysis | 36 | 2 | | |
| | | | | 36 | 2 | | |
| | | | | 36 | 2 | | |
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Geodesy and Surveying Engineering

08

0816

| | | |
|--------|--|----|
| 1 | Theory and Method of Modern Geodesy | |
| 2 | Theory and Technology of Precise Engineering Sur- | |
| veying | | |
| 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 |

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|----|--|---------|--|----|---|--|
| | | | | | | |
| 12 | | | 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 | |
| | | 1000D06 | Artificial Neural Networks | 36 | 2 | |
| | | 1000D12 | Dynamical Systems Chaos and Fractals | 54 | 3 | |
| | | 1603D01 | Special Topics on Geodesy and Surveying Engineering | 18 | 1 | |
| | | 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 | |
| | | | | | | |
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081803

Geological Engineering

08

0818

The diagram shows a rectangular structure with a vertical column on the left and a horizontal row at the top. The vertical column is divided into three sections, with the middle section labeled '12'. The horizontal row is divided into six sections, with the first section labeled '12'. The diagram is drawn with black lines on a white background.

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 |

| | | | | | | | |
|----|---------|---------|---|----|---|---|---|
| | | | | | | | |
| 12 | | | First Foreign Language | 81 | 3 | | |
| | | 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 | | |
| | | | | | | | |
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|---------|---------|---|--|----|---|---|---|
| | | | | | | | |
| 12 | | | First Foreign Language | 81 | 3 | | |
| | | 0900D12 | Marxism in Contemporary China | 36 | 2 | | |
| | | 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 | | |
| | 0599D04 | Development of Environmental Science & Technology | 36 | 2 | | | |
| | 0599D05 | Ecological System Theory | 36 | 2 | | | |
| | 0599D06 | Modern Environmmetal Simulation Technology | 36 | 2 | | | |
| | 6 | | Second Foreign Language | 54 | 2 | | |
| 0900D13 | | Selected Readings in Marxist classics | 18 | 1 | | | |
| 0599D07 | | Modern Detecting Technology | 36 | 2 | | 2 | |
| | | | 36 | 2 | | | |
| | | | 36 | 2 | | | |
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1201

Management Science and Engineering

12

1201

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|---|---|
| 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

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

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| | | | | | | | |
| 12 | | | First Foreign Language | 81 | 3 | | |
| | | 0900D12 | Marxism in Contemporary China | 36 | 2 | | |
| | | 0899D53 | Management Thoughts | 36 | 2 | | |
| | | 0899D52 | Research Methods of Management | 36 | 2 | | |
| | | 0805D61 | Advances in Management Seminar on Advances in Technology Economics and Management | | 1 | | 2 |
| | | 0805D53 | Strategy Technology and Management | 36 | 2 | | |
| | | 0805D51 | Technology Economics and Management in Resources | 36 | 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 | | 2 |
| | | 0900D13 | Selected Readings in Marxist classics | 18 | 1 | | |
| | | 0899D51 | Theory and Method of Decision Making | 36 | 2 | | |
| | | 0899D02 | Modern Economics | 36 | 2 | | |
| | | 0805D57 | Competitive Intelligence | 36 | 2 | | |
| | | 0805D52 | Resources Accounting | 36 | 2 | | |
| | | 0805D54 | Marketing Behaviour | 36 | 2 | | |
| | | | | 36 | 2 | | |
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河海大學

博士研究生培養方案

