

HIT Doctoral Degree Programs

School	Major	Research Field
School of Instrumentation Science and Engineering	0804 Instrument Science and Technology	<ol style="list-style-type: none"> 1. Ultra Precision Measurement Technology and Instruments 2. Laser Measurement and Detection Technology 3. Modern Microscopic Technology and Instruments 4. Visual and Photoelectric Measurement Technology 5. Precision Electromagnetic Measurement Technology and Instruments 6. Advanced Acousto-optic Materials and Instruments 7. Technology of Radiation Temperature Measurement and Thermo-physical Properties Measurement 8. Navigation Instruments and System Technology 9. Bioinformatics Detection and Medical Instruments 10. Ultra-Precision Control Technology and Instruments
School of Electrical Engineering and Automation	0808 Electrical Engineering	<ol style="list-style-type: none"> 1. Motor and Electrical Appliances 2. Power Electronics and Power Transmission 3. Power System and Automation 4. Electrician Theory and New Technique
School of Energy Science and Engineering	0807 Power Engineering and Engineering Thermo-physics	<ol style="list-style-type: none"> 1. Engineering Thermo-physics 2. Thermal Engineering 3. Power Machinery and Engineering 4. Fluid Machinery and Engineering 5. Refrigeration and Cryogenic Engineering
School of Computer Science and Technology	0812 Computer Science and Technology	<ol style="list-style-type: none"> 1. High Reliable High Performance Computer Architecture 2. Mobile Computing and Embedded Computing 3. Computer Network and Information Security 4. Computing Theory 5. Huge Amounts of Data Calculation 6. Service Computing 7. Biological Computing and Bioinformatics 8. Intelligent Human-Computer Interaction and Digital Media Technology 9. Artificial Intelligence and Pattern Recognition 10. Multiple Languages and Chinese Information Processing 11. Social Computing
	0835 Software	<ol style="list-style-type: none"> 1. Software Service Engineering 2. Software Engineering and Software Architecture

	Engineering	<ol style="list-style-type: none"> 3. Software Trustworthiness and Reliability 4. Intelligent Software Theory and Machine Learning 5. Business Intelligence and Data Mining 6. Field of Software Engineering
School of Astronautics	0811 Control Science and Engineering	<ol style="list-style-type: none"> 1. Navigation, Guidance and Control 2. Control Theory and Control Engineering 3. Detection Technology and Automatic Equipment 4. Robots and Intelligent Systems 5. Systems Engineering and Simulation
	0801 Mechanics	<ol style="list-style-type: none"> 1. Fatigue and Fracture Mechanics 2. Structural Optimization Design 3. Micromechanics 4. Solid Dynamics 5. Thermo/Mechanical/ Electrical/Chemical Multi-field Coupling Mechanics 6. Material and Structural Mechanics in Extreme Environment 7. Advanced Composites and its Structural Lightweight Theory 8. Composite Materials and its Structural Mechanics 9. Reliability Analysis and Design of Composite Structures 10. Intelligent Materials and Structural Mechanics 11. Aerospace Structural Mechanics 12. Material/ Structure/ Function Integrated Design 13. Structural Dynamics and Vibration Control 14. Nonlinear Dynamics 15. Hydrodynamics 16. Dynamics Inverse Problem and Fault Diagnosis
	0825 Aeronautical and Astronautical Science and Technology	<ol style="list-style-type: none"> 1. Aircraft System Design 2. Flight Dynamics and Control 3. Aircraft Intelligent Autonomous Navigation, Guidance and Control 4. Deep Space Flight and Landing Return 5. Integrated Design and Simulation of Aircraft 6. Dynamics and Control of Complex Spacecraft 7. Space Environmental Effects of Spacecraft and its Countermeasures 8. Structure and Protection of Aerospace Vehicles
	0803 Optical	<ol style="list-style-type: none"> 1. Space Optical Information Acquisition Technology and Processing

	Engineering	<ol style="list-style-type: none"> 2. Optical Guidance and Simulation 3. Modern Photoelectric Testing Technology 4. Target Detection and Recognition 5. Optical Image Processing and Evaluation 6. Space Laser Communication 7. Laser Radar and Laser Remote Sensing 8. High Power Laser and Tunable Laser 9. Nonlinear Optical Technology 10. Photoelectric Device and Technology
	0809 Electronics Science and Technology	<ol style="list-style-type: none"> 1. Laser Spatial Information and Confrontation 2. Tunable Laser Short Wavelength Laser 3. Nonlinear Optics Quantum Optics Technology and Application 4. Photoelectric Device and Technology 5. Laser Spectrum and The Mechanism of Laser Medium 6. Micro-Nano Devices and Systems 7. Integrated Circuits Design and Application 8. Integrated Sensor Technology 9. Advanced SoC and Reliability Design of Integrated Circuits 10. Microwave Transmission Theory and Antenna System
School of Mechatronics Engineering	0802 Mechanical Engineering	<ol style="list-style-type: none"> 1. Precision and Ultra-Precision Processing Technology 2. Micro-Nano Manufacturing Techniques 3. Special Processing and Special Material Processing Technology 4. Modern Design Theory and Method 5. Digital Design and Manufacturing Technology 6. Mechanical and Electrical System Control and Automation 7. Modern Sensor and Testing Technology 8. Fluid Flow Control and Automation 9. Robot Technology and System 10. Special Transmission Intelligent Design and Control 11. Tribology Basic Theory and Application Technology 12. Engineering Structure Design and Analysis 13. Vibration and Noise Control 14. Biomechanical Engineering 15. Production System Automation Technology 16. Manufacturing System Engineering Management 17. Vehicle Dynamics and Control 18. Vehicles Advanced Manufacturing Technology 19. Modern Design Theory and Method Of Vehicle

		20. Vehicle Electronics and Control
	0825 Aeronautical and Astronautical Science and Technology	<ol style="list-style-type: none"> 1. Space Structure and Control 2. Aerospace High Precision Manufacturing Technology 3. Space Robot Technology 4. Space of Special Processing Technology 5. Aircraft Digital Manufacturing Technology 6. Aircraft Ground Simulation and Testing Technology
School of Materials Science and Engineering	0805 Materials Science and Engineering	<ol style="list-style-type: none"> 1. Intelligent Materials and Devices 2. Space Material and its Environmental Effects 3. Photoelectric Information Science and Engineering 4. Advanced Metals and Ceramic Materials 5. Solidification Science and Engineering 6. Plastic Processing Science and Engineering 7. Material Connection Science and Engineering
School of Management	1201 Management Science and Engineering	<ol style="list-style-type: none"> 1. Management Information Systems and Operation Management 2. E System Engineering and Optimization 3. Big Data and Business Analysis 4. Electronic Health
	1202 Business Administration	<ol style="list-style-type: none"> 1. Enterprise Strategic Management Theory and Method 2. Organization and Human Resource Theory and Method 3. Marketing Theory and Method 4. Accounting Policies and Accounting Information Disclosure 5. Innovation theory, method and policy 6. Investment and Financing Theory and Financial Engineering 7. Sustainable Development Theory, Method and Policy 8. Management Corporate Governance and Corporate Value
	120401 Public Administration	<ol style="list-style-type: none"> 1. Public Policy Analysis and Behavior Simulation 2. Urban and Government Governance Innovation 3. Public Policy Impact Assessment 4. Infrastructure Economy and Management
School of Humanities, Social Science and Law	0303 Sociology	<ol style="list-style-type: none"> 1. Industrial Sociology 2. Virtual Social Anthropology 3. Social Construction and The Underclass 4. Quantitative Social Research Methods 5. Research on Network Society 6. Tourism Sociology

School of Physics	0702 Physics	<ol style="list-style-type: none"> 1. Nonlinear Optics and Laser Spectroscopy 2. Military Information Photonics Technology and Devices 3. Nano Photonics and Surface Plasmon Optics 4. Quantum Information and Quantum Dynamics 5. Cross The Extreme Conditions Of Condensed Matter Physics 6. Physics and High Energy Heavy-Ion Collisions Hadron Phenomenological Study 7. Physical Function of Modern Materials and Nano Device 8. Particulate Matter and Soft Matter Physics 9. Plasma Transport and Its Interaction with Light Field 10. Bioluminescence and Optical Imaging Technology
School of Mathematics	0701 Mathematics	<ol style="list-style-type: none"> 1. Analysis and Partial Differential Equations 2. Algebra and Topology 3. Ordinary Differential Equation and Dynamical System 4. Science and Engineering Computation 5. Inverse Problem of Mathematical Physics 6. Operational Control and Optimization
	0714 Statistics	<ol style="list-style-type: none"> 1. Statistics and its Application in Engineering 2. Financial Statistics and Big Data Analysis 3. Biology and Quantum Statistics
School of Environment	0814 Civil Engineering	<ol style="list-style-type: none"> 1. Urban Drinking Water Security 2. Theory and Technology of Pollution (Waste) Water Treatment and Resource Utilization 3. Prevention and Control of Water Pollution and Sustainable Utilization of Water Resources 4. Hydro-chemical Environment al Functional Materials 5. Safe Disposal and Resource Utilization of Municipal Solid Waste 6. Urban Water System Digitalization and Pipeline Network Optimization 7. Urban Water Circulation System
	0830 Environmental Science and Engineering	<ol style="list-style-type: none"> 1. Prevention and Control of Water Pollution and Sustainable Utilization of Water Resources 2. Hydro-chemical Environment al Functional Materials 3. Safe Disposal and Resource Utilization of Municipal Solid Waste 4. Formation Mechanism and Prevention and Control of Air Pollution 5. Regional Environmental Pollution Prevention and Control and Ecological Engineering

		6. Environmental System Simulation Prediction and Planning Management
School of Life Science and Technology	0831/0777 Biomedical Engineering	Engineering: 1. Biomedical Information Technology 2. Nano Biotechnology and Biological Sensors 3. Biomedical Detection Technology 4. Biological Electromechanical Integration Technology 5. Biomedical Image Processing 6. Tissue Engineering and Technology Science: 1. Neurobiology 2. Microbial Biotechnology 3. Developmental Biology 4. Structural Molecular Biology 5. Tumor Cell Biology 6. Space Molecular Cell Biology 7. Genetics and Bioinformatics
School of Transportation Science and Engineering	0823 Communication and Transportation Engineering	1. Road Construction Materials 2. Composite Sub-grade Stability Technology 3. Pavement Dynamics and Design Method 4. Road Nondestructive Testing Technology 5. Road Transportation Safety 6. Transportation Planning 7. Traffic Economy 8. Intelligent Transportation System 9. Traffic Management and Control
	0814 Civil Engineering	1. Bridge Structure and Durability 2. Bridge Monitoring. Monitoring and Safety Evaluation 3. Bridge Seismic and Axle Vibration 4. Both The Bridge Reinforcement 5. Advanced Composite Applications
School of Civil Engineering	0814 Civil Engineering	1. Steel, Wood and Composite Structures 2. Concrete Structure, Masonry Structure and New Structure 3. Bridges and Ocean Engineering Structures 4. Civil Engineering Materials 5. Disaster Prevention and Mitigation Works and Protection Works 6. Geotechnical and Underground Engineering

		7. Civil Engineering Construction and Management
	0801 Mechanics	1. Structural Vibration, Impact, Explosion and Control 2. Structural Damage, Reliability and Health Monitoring 3. Computational Structural Mechanics and Computational Fluid Dynamics 4. Civil Engineering Intelligent Materials and Structural System 5. Civil Engineering Structure and System Design Theory
School of Architecture	0813 Architecture	1. Architectural Design and Theory 2. Public Architecture Design and its Theory 3. Green Building and Energy Saving Technology 4. City and Building Physical Environment 5. Chinese and Foreign Architectural History and Heritage Protection 6. Urban Design and Interior Design
	0833 Urban and Rural Planning	1. Urban and Rural Planning Theory and Methods 2. Urban Historical & Cultural Protection and Planning Design 3. Cold to Urban and Rural Living Environment Planning 4. Urban Form and Landscape Planning 5. Urban and Rural Security and Regional Planning
	0834 Landscape Architecture	1. History and Theory of Western Landscape 2. Landscape Heritage Protection and Utilization 3. Landscape Planning and Design and Theory 4. Landscape Architecture Engineering and Technology 5. Ecology Landscape 6. Tourist Recreation and Planning and Design
	0814 Civil Engineering	1. Heating Calculation Theory and Application Technology 2. Ventilation and Air Conditioning Theory and Application 3. Building Energy Efficiency and Energy Utilization 4. Gas Storage and Transportation and Urban Gas Application 5. HVAC Systems and Control Theory and Technology 6. Built Environment
School of Electronics and Information Engineering	0810 Information and Communication Engineering	1. Wireless Communication and Network 2. Theory and Technology of Space Communication 3. New System Radar Theory and Technology 4. Microwave Imaging and Target Recognition Technology 5. Remote Sensing Information Processing Technology 6. Electronic Countermeasure Theory and Technology

		7. Measurement and Control Theory and Technology
School of Chemistry and Chemical Engineering	0817 Chemical Engineering and Technology	<ol style="list-style-type: none"> 1. Surface and Interface Chemistry 2. Polymer Composite and Modification 3. Chemical Power Source and Electrochemical Power Engineering 4. Preparation and Performance of Functional Materials 5. Biological Synthesis and Separation Engineering 6. Bimolecular Engineering 7. New Energy Chemical Industry

HIT Master's Degree Programs

School	Major	Research Field
School of Astronautics	0811 Control Science and Engineering	<ol style="list-style-type: none"> 1. Navigation Guidance and Control 2. Detection Technology and Automation Device 3. Control Theory and Control Engineering 4. System Engineering and Stimulation 5 . Robots and Intelligent System
	0801 Mechanics	<ol style="list-style-type: none"> 1. Damage and Fracture Mechanics 2. Solid Dynamics 3. Structural Mechanics and Software Engineering 4. Composite Materials and Structural Mechanics 5. Characterization and Failure Analysis of Advanced Composite Materials 6. Integration of Structural Design, Analysis and Evaluation of Composite Materials 7. Reliability and Optimization of Complex Structure Engineering 8. Intelligent Materials and Multi-field Coupling Mechanics 9. Thermal Protection System and Structure Design 10. Structural Dynamics and Vibration Control 11. Spacecraft Dynamics and Control 12. Hydrodynamics and Control of Underwater Vehicles 13. Nonlinear Dynamics 14. Health Monitoring and Fault Diagnosis Technology of Engineering System
	0825 Aeronautical and Astronautical Science and Technology	<ol style="list-style-type: none"> Aircraft System Design 2. Flight Dynamics and Control 3. Aircraft Intelligent Autonomous Navigation, Guidance and Control 4. Deep Space Flight and Landing Return 5. Integrated Design and Simulation of Aircraft 6. Dynamics and Control of Complex Spacecraft 7. Space Environmental Effects of Spacecraft and its Countermeasures

		8. Structure and Protection of Aerospace Vehicles
	0803 Optical Engineering	<ol style="list-style-type: none"> 1. Optical Image and Information Processing Technology 2. High Resolution Optical Remote Sensing Technology 3. Target Detection and Recognition Technology 4. Modern Photoelectric Detection Technology 5. Photoelectric Guidance and Simulation Technology
	0809 Electronics Science and Technology	<ol style="list-style-type: none"> 1. Laser Spatial Information and Confrontation 2. Tunable Lase and Short Wavelength Laser 3. Nonlinear Optics, Quantum Optics and its Application 4. Optoelectronic Devices and Technology 5. Study on Lase Medium Spectrum and Laser Mechanism 6. Micro-Nano Device and Micro-System 7. Design and Application of Integrated Circuits 8. Wireless Sensor Network Technology 9. Advanced SoC High Reliability IC Design Technology 10. Microwave and Millimeter Wave Circuit Theory and System 11. Wireless Theory and Technology 12. Microwave Intelligent Materials and Microwave Imaging Theory and Technology
School of Energy Science and Engineering	0807 Power Engineering and Engineering Thermo-Physics	<ol style="list-style-type: none"> 1. Engineering Thermo-physics 2. Thermal Engineering 3. Power Machinery and Engineering 4. Fluid Machinery and Engineering 5. Refrigeration and Cryogenic Engineering 6. Chemical Process Machinery
School of Computer Science and Technology	0812 Computer Science and Technology	<ol style="list-style-type: none"> 1. High Reliability Computing and Fault Tolerant Computing 2. Mobile Computing 3. Computer Network and Information Technology 4. Massive Data Computation 5. Digital Media and Human-Computer Interaction 6. Natural Language Computing Technology 7. Enterprise Computing and Service Computing

		<ul style="list-style-type: none"> 8. Biocomputing and Bioinformatics Technology 9. Multi-agent Robot Technology 10. Artificial Intelligence and Pattern Recognition 11. Information Fusion Technology and Application 12. Computational Theory 13. Social Computing 14. Machine Learning
	0835 Software Engineering	<ul style="list-style-type: none"> 1. Software Service Engineering and Service Computing 2. Service Science and Engineering 3. Software Engineering Technology and Software Architecture 4. Software Reliability and Software Testing 5. Intelligent Software Theory and Machine Learning 6. Data Mining and Business Intelligence 7. Application of Software Engineering
School of Instrumentation Science and Engineering	0804 Instrument Science and Technology	<ul style="list-style-type: none"> 1. Ultra Precision Measurement Technology and Instruments 2. Laser Measurement and Detection Technology 3. Modern Microscopic Technology and Instruments 4. Visual and Photoelectric Measurement Technology 5. Precision Electromagnetic Measurement Technology and Instruments 6. Advanced Acousto-optic Materials and Instruments 7. Technology of Radiation Temperature Measurement and Thermo-physical Properties Measurement 8. Navigation Instruments and System Technology 9. Bioinformatics Detection and Medical Instruments
School of Electrical Engineering and Automation	0808 Electrical Engineering	<ul style="list-style-type: none"> 1. Motor and Electrical Appliances 2. Power Electronics and Power Transmission 3. Power System and Automation 4. Electrician Theory and New Technique
School of Mathematics	0701 Mathematics	<ul style="list-style-type: none"> 1. Analysis and Partial Differential Equations 2. Algebra and Topology 3. Ordinary Differential Equation and Dynamical System 4. Science and Engineering Computation 5. Inverse Problem of Mathematical Physics 6. Operational Control and Optimization

School of Physics	0702 Physics	<ol style="list-style-type: none"> 1. Nonlinear Optics and Photonic Devices 2. Military Photonics 3. Nano-photonics and Physics of Nano-materials 4. Optical Information Processing 5. Functional Materials Physics and Application 6. Cross-extreme Conditional Physics 7. Condensate Theory 8. Medium and High Energy Nuclear Physics 9. Hadron Physics 10. Atomic and Molecular Physics 11. Plasma Physics
School of Mechatronics Engineering	0802 Mechanical Engineering	<ol style="list-style-type: none"> 1. Precision and Special Processing Technology 2. Modern Design Method and Intelligent Manufacturing Technology 3. Electromechanical System Control and Automation 4. Fluid Transmission and Control 5. Robot Technology and System 6. Basic Theory and Application of Mechanical Transmission 7. Engineering Machinery 8. Micro-nanotechnology and its Application 9. Industrial Engineering
	082503 Manufacturing Engineering of Aerospace Vehicle	<ol style="list-style-type: none"> 1. Space Structure and Control 2. Aerospace High Precision Manufacturing Technology 3. Space Robot Technology 4. Space of Special Processing Technology 5. Aircraft Digital Manufacturing Technology 6. Aircraft Ground Simulation and Testing Technology
	0872 Design (Industrial Design)	<ol style="list-style-type: none"> 1. Industrial Design
School of Materials Science and Engineering	0805 Materials Science and Engineering	<ol style="list-style-type: none"> 1. Functional Materials and Devices 2. Space Material and its Environmental Effects 3. Photoelectric Information Science and Engineering 4. Advanced Metals and Ceramic Materials 5. Solidification Science and Engineering 6. Plastic Processing Science and Engineering

		7. Material Connection Science and Engineering
School of Management	1201 Management Science and Engineering	<ol style="list-style-type: none"> 1. Management Information System and Decision Support System 2. Electronic Commerce and Business Intelligence 3. System Engineering and Operational Management 4. Electronic Health and Management 5. Knowledge Management and Knowledge Engineering
	1202 Business Administration	<ol style="list-style-type: none"> 1. Technological Innovation and Technology Management 2. Theory of Industry and Regional Development 3. Risk Analysis and Management 4. Modern Manufacturing System management Theory 5. Strategic Management and Modern Enterprise Operation 6. Marketing Theory 7. Accounting and Management Accounting Theory 8. Financial and Cost Management 9. Organizational Management and New Leadership
	1204 Public Management	<ol style="list-style-type: none"> 1. Administrative Management 2. Urban Governance 3. Education Economy and Management
	0202 Applied Economics	<ol style="list-style-type: none"> 1. Financial Markets and Financial Stability 2. Financial Engineering and Financial Mathematics 3. Internet + and Financial Innovation 4. Urban Economy and Urban Governance 5. International Trade Theory and Practice 6. Behavioral Economics Theory and Experimental Methods
School of Humanities, Social Science and Law	0201 Theoretical Economics	<ol style="list-style-type: none"> 1. Macroeconomic Theory and Policy 2. Economic Globalization and World Economy 3. Resource Environment and Economic Development 4. Study on Regional Economic Problems 5. International Trade Theory and Policy
	0202 Applied Economics	<ol style="list-style-type: none"> 1. International Trade Theory and Practice 2. International Finance Theory and Empirical Research 3. WTO and Economic Globalization

	0303 Sociology	<ol style="list-style-type: none"> 1. Research on Social Problems of Information and Network 2. Social Research Methods 3. Frontier of Psychodynamics 4. Industrial Sociology 5. Cultural Society and Social Theory 6. Urban Politics and Community Studies
	0301 Law	<ol style="list-style-type: none"> 1. Jurisprudence 2. Civil and Commercial Law 3. Criminal law 4. International Law
School of Civil Engineering	0814 Civil Engineering	<ol style="list-style-type: none"> 1. Steel, Wood and Composite Structures 2. Concrete Structure, Masonry Structure and New Structure 3. Bridges and Ocean Engineering Structures 4. Civil Engineering Materials 5. Disaster Prevention and Mitigation Works and Protection Works 6. Geotechnical and Underground Engineering 7. Civil Engineering Construction and Management
	0801 Mechanics	<ol style="list-style-type: none"> 1. Structural Vibration, Impact, Explosion and Control 2. Structural Damage, Reliability and Health Monitoring 3. Computational Structural Mechanics and Computational Fluid Dynamics 4. Civil Engineering Intelligent Materials and Structural System 5. Civil Engineering Structure and System Design Theory
School of Environment	0830 Environmental Science and Engineering	<ol style="list-style-type: none"> 1. Prevention and Control of Water Pollution and Sustainable Utilization of Water Resources 2. Hydro-chemical and Environmental Functional Materials 3. Safe Disposal and Resource Utilization of Municipal Solid Waste 4. Formation Mechanism and Prevention and Control of air Pollution 5. Regional Environmental Pollution Prevention and Control and Ecological Engineering 6. Environmental System Simulation, Prediction and

		Planning Management
	071005 Microbiology	<ol style="list-style-type: none"> 1. Physiological Ecology of Environmental Microorganisms 2. Biotechnology and Molecular Biotechnology in Environmental Pollution Control 3. Biological Resources and Energy Development and Utilization
	081403 Municipal Engineering	<ol style="list-style-type: none"> 1. Safety Control of Drinking Water Quality in Cities and Towns 2. Theory and Technology of Pollution (Waste) Water Treatment and Resource Utilization 3. Prevention and Control of Water Pollution and Sustainable Utilization of Water Resources 4. Hydro-chemical and Environmental Functional Materials 5. Safe Disposal and Resource Utilization of Municipal Solid Waste 6. Digitalization and Management Optimization of Urban Water System 7. Urban Water Circulation System
School of Architecture	0813 Architecture	<ol style="list-style-type: none"> 1. Regional Architectural Design and Theory 2. Public Architectural Design and Its Theory 3. Green Building Theory and Energy Saving Technology 4. Urban and Architectural Physical Environment 5. Chinese and Foreign Architectural History and Heritage Protection 6. Urban Design Theory 7. Interior Design Theory 8. Architectural Planning and Its Theory
	081404 Heating, Gas Supply, Ventilating and Air Conditioning Engineering	<ol style="list-style-type: none"> 1. Theory and Application Technology of Heating Calculation 2. Theory and Application of Ventilation and Air Conditioning 3. Building Energy Conservation and Energy Utilization 4. Gas Storage and Transportation and Urban Gas Application
	0833 Urban and Rural Planning	<ol style="list-style-type: none"> 1. Urban and Rural Planning Theory and Methods 2. Urban Historical & Cultural Protection and Planning

		<p>Design</p> <ol style="list-style-type: none"> 3. Cold to Urban and Rural Living Environment Planning 4. Urban Form and Landscape Planning 5. Urban and Rural Security and Regional Planning
	0834 Landscape Architecture	<ol style="list-style-type: none"> 1. Theory and Method of Landscape Architecture Planning and Design in Cold Regions 2. Landscape Ecology Theory and Method 3. Theory of Landscape Architecture and Landscape Heritage Protection 4. Landscape Architecture History and Theory
	0872 、 1305 Design (Digital Media)	<ol style="list-style-type: none"> 1. Environmental Art Design and Theoretical Research 2. Product Design and Theoretical Research 3. Visual Communication Design and Theoretical Research 4. Public Art Design and Theoretical Research 5. Research on Design Education and Management 6. Digital Media Design 7. Digital Media Art
School of Transportation Science and Engineering	0823 Communication and Transportation Engineering	<ol style="list-style-type: none"> 1. Road Building Materials 2. Subgrade and Pavement Engineering 3. Road Alignment Design Theory 4. Traffic Planning and Management 5. Traffic Safety 6. Traffic Information and Control 7. Road Economy and Management 8. Logistics Engineering 9. Road Traffic Environment 10. Intelligent Transportation System
	081406 Bridge and Tunnel Engineering	<ol style="list-style-type: none"> 1. Design Theory and Construction Technology of Bridge Structure 2. Coupled Vibration of Vehicle-Bridge System 3. Seismic Resistance of Bridges 4. State Assessment, Detection and Reinforcement of Existing Bridges 5. Composite Bridge Structures 6. Bridge Health Monitoring
School of Chemistry and	0817 Chemical Engineering and	<ol style="list-style-type: none"> 1. Chemical Power Supply 2. Electrochemical Surface Modification

Chemical Engineering	Technology	<ol style="list-style-type: none"> 3. Interfacial Chemistry and Engineering of Composite Polymers 4. Polymerization and Engineering 5. Green Chemical Technology 6. Preparation and Application of Inorganic Functional Materials 7. New Catalysts 8. Catalytic Reaction Engineering 9. Bioprocessing Technology 10. Biosynthesis and Separation Engineering
	0832 Food Science and Engineering	<ol style="list-style-type: none"> 1. Food Processing Engineering 2. Food Science 3. Chemistry of Natural Products 4. Extreme Environmental Nutrition
	0703 Chemistry	<ol style="list-style-type: none"> 1. Organic Synthesis and Structure Analysis 2. Energy Conversion Materials 3. Functional Nano-materials and Devices 4. Spectral Analysis 5. Polymer Synthesis and Modification 6. Bio-molecular Science 7. Computational Chemistry
	070305 Chemistry and Physics of Polymers	<ol style="list-style-type: none"> 1. Interface modification and characterization of composite materials 2. Polymer Modification 3. Functional Polymers 4. High Performance Reinforcing Fibers 5. Molecular Simulation
School of Marxist	0101 philosophy	<ol style="list-style-type: none"> 1. Marxist Philosophy 2. Philosophy of Science and Technology
	0305 Marxist theory	<ol style="list-style-type: none"> 1. Study on the Sinicization of Marxism 2. Ideological and Political Education 3. Research on the Basic Problems of Modern Chinese History
School of Electronics and Information Engineering	0810 Information and Communication Engineering	<ol style="list-style-type: none"> 1. Wireless Communication and Network 2. Theory and Technology of Space Communication 3. New System Radar Theory and Technology 4. Microwave Imaging and Target Recognition Technology 5. Remote Sensing Information Processing Technology

		<ul style="list-style-type: none"> 6. Electronic Countermeasure Theory and Technology 7. Measurement and Control Theory and Technology
School of Life Science and Technology	0710 Biology	<ul style="list-style-type: none"> 1. Cancer Biology 2. Microbial Genetic Engineering 3. Developmental Biology 4. Neurobiology 5. Space Biology/Space Medicine 6. Protein Structure and Function 7. Structural Molecular Biology
	0831 Biomedical Engineering (Master of Engineering)	<ul style="list-style-type: none"> 1. Nano-biotechnology 2. Medical Physics and Engineering 3. Bioinformatics Technology 4. Medical Image Processing 5. Bio-electromechanical Signal Processing 6. Tissue Engineering and Biomaterials
	0777 Biomedical Engineering (Master of Science)	<ul style="list-style-type: none"> 1. Nano-biotechnology 2. Medical Physics and Engineering 3. Bioinformatics Technology 4. Medical Image Processing 5. Bio-electromechanical Signal Processing 6. Tissue Engineering and Biomaterials

HIT Master's Degree Programs Taught in English

Category	School	Major	Research Field
Management	School of Management	0202 Applied Economics	<ol style="list-style-type: none"> 1. International Industry and Technology Transfer 2. International Trade Theory 3. Industry Economic Theory and Method 4. The Financial Policy and Regulation 5. Financial Economics 6. Financial Engineering
		1201 Management Science and Engineering	<ol style="list-style-type: none"> 1. Management Information System, Decision Support System 2. E-commerce E-government Business Intelligence 3. Systems Engineering Theory and Application 4. Number Theory and the Statistical Analysis and Decision Optimization Model 5. Knowledge Management and Knowledge Engineering 6. Project Management 7. Construction Management Theory and Method 8. Real Estate Investment and Management 9. Housing and Housing System
		1202 Business Administration	<ol style="list-style-type: none"> 1. Technology Innovation and Technology Management 2. Industry and Regional Development Theory 3. Risk Analysis and Management 4. Management Theory of Modern Manufacturing System 5. Strategic Management and Modern Organization Theory 6. Marketing Theory 7. Accounting Theory and Practice 8. Cost and Management Accounting Theory and Method 9. Financial Management Theory and Method
		1204 Public Management	<ol style="list-style-type: none"> 1. The Theory and Practice of the Belt and Road Initiative 2. Application of Infrastructure Management

			<ol style="list-style-type: none"> 3. Research on Regional Economic Development 4. Research on Governance Theory and Practice 5. The Belt and Road Country Studies
Materials Science	School of Materials Science and Engineering	0805 Materials Science and Engineering	<ol style="list-style-type: none"> 1. Metal and Ceramics Materials 2. Surface Engineering 3. Behavior of Materials under Space Environment and Test Technologies 4. Polymer Matrix Composite Materials 5. Micromechanics of Composite Materials 6. Information Function Material and Device 7. Biomedical Materials and Device 8. Science and Solidification of Liquid Forming Technology 9. Plastic Forming Theory and Technology 10. Science and Technology of Materials Joining
Mechanical Engineering	School of Mechatronics Engineering	0802 Mechanical Engineering	<ol style="list-style-type: none"> 1. Mechanical Design and Theory 2. Mechanical Manufacture Automation 3. Mechatronic Engineering 4. Production Process Management
	School of Energy Science and Engineering	0807 Power Engineering and Engineering Thermo-Physics	<ol style="list-style-type: none"> 1. Combustion and Pollution Control 2. Dynamic Fluid and Chemical Machinery 3. Heat, Mass Transfer and Multiphase flow 4. The Utilization of Energy
Civil Engineering	School of Civil Engineering	0814 Civil Engineering	<ol style="list-style-type: none"> 1. Steel, Wood and Composite Structures 2. Concrete Structure, Masonry Structure and New Structure 3. Bridges and Ocean Engineering Structures 4. Civil Engineering Materials 5. Disaster Prevention and Mitigation Works and Protection Works 6. Geotechnical and Underground Engineering 7. Civil Engineering Construction and Management

Electronics	School of Computer Science and Technology	0812 Computer Science and Technology	Computer Science and Technology
		0835 Software Engineering	Software Engineering
	School of Astronautics	0811 Control Science and Engineering	Control Science and Engineering
		0809 Electronics Science and Technology	1. Physical Electronics 2. Microelectronics and Solid-State Electronics
	School of Electronics and Information Engineering	0810 Information and Communication Engineering	Information and Communication Engineering
Chemical Engineering & Life Science and Technology	School of Chemistry and Chemical Engineering	0703 Chemistry	1. Surface and Interface Chemistry of Materials 2. Energy Conversion Material Chemistry 3. Solar Cells and Devices 4. Spectrum Detection and Analysis 5. Synthesis and Preparation of Functional Nano-Materials
		0817 Chemical Engineering and Technology	1. Polymer Composite and Modification 2. Chemical Power Source and Electrochemical Technology 3. Preparation and Performance of Functional Materials 4. Energy Chemical Engineering and Catalysis 5. Bimolecular Engineering
		0832 Food Science and Engineering	1. Space Biochemistry and Protection 2. Natural Product Chemistry and Human Health 3. Food Safety and Process Control 4. Food Fermentation and Microbiology 5. New Resource Food Research and Development
	School of Life Science and	0831/0777	1. Nano Biotechnology 2. Tissue Engineering and Regenerative

	Technology	Biomedical Engineering	Medicine 3. Synthetic Biology 4. Cancer Biology 5. Neurobiology
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