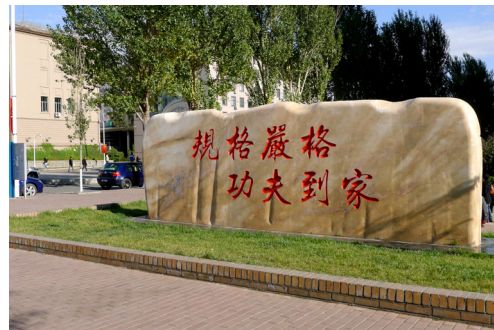哈尔滨工业大学
HARBIN INSTITUTE OF TECHNOLOGY

2023-2024

Chinese Government Scholarship Program

Harbin Institute of Technology

Harbin Institute of Technology

Founded in 1920, Harbin Institute of Technology (HIT), with science, engineering, and research as its core, encompassing management and liberal arts, economy and law, is now developing into an open, multi-disciplinary and world-class university.

• Founding member of the C9 League (a group of China's top universities)
• Top 5 Best Global Universities for Engineering in 2022 U.S. News Ranking
• Double First-Class University (only 36 Class A universities in China)

Eligibility

1. Be a citizen of a country other than the People's Republic of China, and be in good health both mentally and physically;
2. Be a bachelor's degree holder under the age of 35 when applying for master's degree;
3. Be a master's degree holder under the age of 40 when applying for doctoral degree;
4. Have acquired the Chinese proficiency of HSK Level 4 when applying for Chinese-taught master's or doctoral degree;
5. Meet the admission requirements of Harbin Institute of Technology in terms of academic ability, language proficiency and other relevant criteria.

Note: Scholarship students are not eligible for other scholarships established by the Chinese Government and admission institutions during the same period.

Application Period

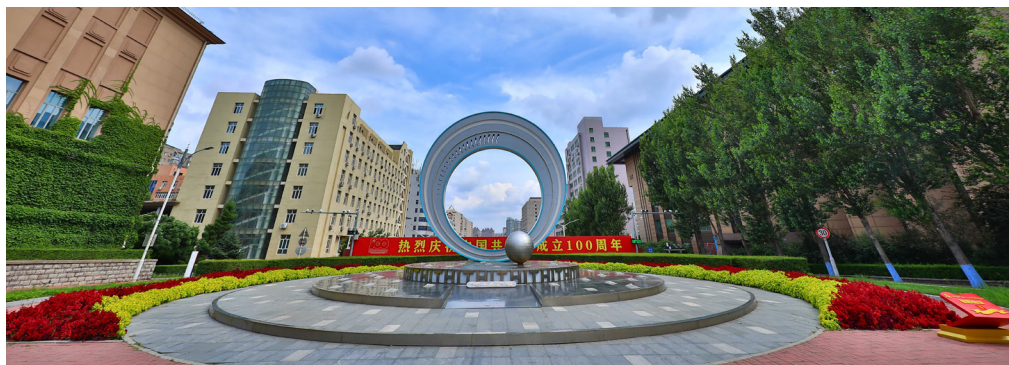|	
Oct 15, 2022	2023 Scholarship Application Opens
Dec 20, 2022	Deadline for Early Action Scholarship Application
Feb 18, 2023	Deadline for Regular Scholarship Application

Application Process

Step 1: Submit all the application documents (electronic version) to **StudyatHIT@hit.edu.cn** before the deadline.

Step 2: Receive the application confirmation E-mail from the Office of International Students Admission of HIT.
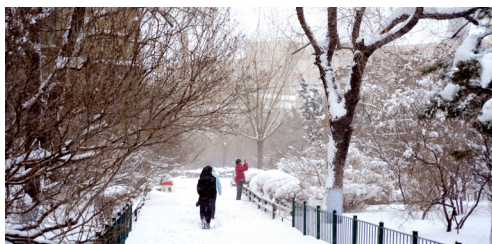
Reminder: The admission officer will follow-up on the application via email. Please check the email frequently. We average a response within 24 hours, but the number of emails tends to spike especially around the application deadlines. Please be patient if we don't respond in time.

Application Documents

1. Application Form for Chinese Government Scholarship;
   The CSC Online Application System is available at **http://studyinchina.csc.edu.cn/**
   Scholarship type: B
   University code: 10213

2. Passport home page (the passport expires before September 2023);

3. Notarized highest diploma;

4. Academic transcripts (from the undergraduate program onwards issued by the attending university's academic affairs office, graduate school or student management department);

5. Language qualification certificates;
   Chinese-taught programs:
   Master's Degree: HSK4 report or above (valid for two years)
   Doctoral Degree: HSK4 report or above (valid for two years)
   English-taught programs (for non-English native speakers):
   IELTS report 6.0 or above, TOEFL report 80 or above or other equivalent English language proficiency certificates

6. A written proposal of the study plan (more than 1,000 characters or words);
   Note: 1. The proposal of a doctoral degree applicant shall be approved and signed by the applicant's Chinese supervisor.
   2. The template of the study plan can be referred to **http://studyathit.hit.edu.cn/post/index/459**.

7. Two recommendation letters from professors or associate professors;
   Note: These letters shall describe the applicant's objectives of learning in China, comprehensive abilities and evaluation of future growth, as well as the cooperation between the supervisors or the exchange between universities both in China and abroad.

8. A photocopy of the Foreigner Physical Examination Form (valid for only six months);
   Note: The medical examinations must cover all the items listed in the Foreigner Physical Examination Form. Incomplete records or those without the signature of the attending physician, the official stamp of the hospital or a sealed photograph of the applicant are invalid.

9. Bank receipt of application fee: 60 USD or 400 RMB;
   Remittance Information:
   Bank Name: Industrial and Commercial Bank of China, Harbin, Da Zhi Branch
   Bank Address: 318 East Dazhi Street, Harbin, People's Republic of China
   Name: Harbin Institute of Technology
   Account Number: 3500040109008900513
   SWIFT/BIC: ICBKCNBJHLJ
   Note: The application fee is non-refundable.

10. Non- criminal record report (usually issued within 6 months prior to the submission date of application);

11. Acceptance letter (non-compulsory)
    Note: An applicant is encouraged to contact professors before application and enclose the acceptance letter from professors of HIT.

Reminder: Uploaded supporting documents must be clear, authentic and valid. Applicants should use a professional scanner for the relevant documents (to have clear and concise pictures). Applicants shall bear the consequences caused by unclear or unidentifiable uploaded documents.

Scholarship Information

1. Scholarship Coverage

1) Tuition fees;
2) Free university dormitory;
3) Stipend: Granted to the students after their arrival to China and after registration at the school. No stipend is issued before arrival.
   Master's students: CNY 3,000/month;
   Doctoral students: CNY 3,500/month;
4) Comprehensive medical insurance: CNY 800/ year.
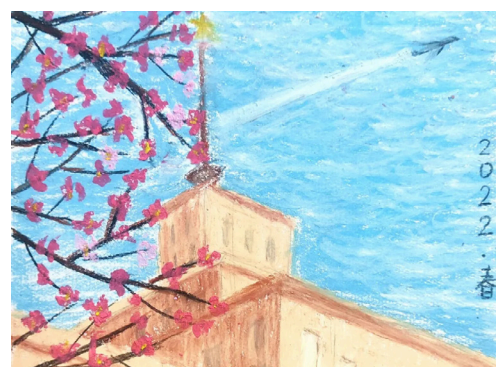
2. Categories of Applicants and Duration of Scholarship

No.	Categories of Applicants	Duration of Major Studies	Duration of Remedial Chinese Language Studies	Duration of Scholarship
		Academic Years		
1.	Master's Degree Students	2-3	1	2-3
2.	Doctoral Degree Students	4	1	4

Note: The duration of a Master's degree is generally 3 years at HIT. Duration varies in some schools or faculties as follows.
1. Duration of Master's degree programs (2 years): School of Management, School of Instrumentation Science and Engineering, School of Humanities, Social Science and Law, School of Life Science and Technology.
2. Duration of Master's degree programs (2.5 years): Faculty of Computing, School of Architecture.

3. Teaching Language

- Doctoral degree programs can be taught in Chinese or English except the programs in the School of Humanities, Social Science and Law which can be taught in Chinese only.
- Master's degree programs are taught in Chinese. English-taught programs are Management, Materials Science, Civil Engineering, Mechanical Engineering, Electronics and Chemical Engineering.

Important notes

1. Harbin Institute of Technology has the right to adjust the selected majors and study duration according to the applicant's educational background and study plan. If the applicant's conditions or application documents do not meet the provisions or requirements, the application shall be regarded invalid and not be accepted.

2. Applicants are not allowed to change their professors, specialties, institutions, study duration or teaching language specified in the Admission Notice after registration.

More Information

Find a supervisor, please visit http://homepage.hit.edu.cn/home-index

For reference materials, please visit http://studyathit.hit.edu.cn/post/index/459

Schools and Majors

Master Degree Programs (Chinese-taught) : http://studyathit.hit.edu.cn/post/detail/5781

Master Degree Programs (English-taught) : http://studyathit.hit.edu.cn/post/detail/5782

Doctoral Degree Programs (Chinese-taught) : http://studyathit.hit.edu.cn/post/detail/5784

Doctoral Degree Programs (English-taught) : http://studyathit.hit.edu.cn/post/detail/5783

Contact

Tel: +86-451-86412647 +86-451-86402455

E-mail: StudyatHIT@hit.edu.cn

Website: http://studyathit.hit.edu.cn/

Address: No. 11 Siling Street, Nangang District, Harbin 150001 P.R. China

摄影／辛然

School	Major	Research Field
School of Astronautics 航天学院	0811 Control Science and Engineering 控制科学与工程	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 力学	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 航空宇航科学与技术	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 Engineering 光学工程	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 电子科学与技术	1. Laser Spatial Information and Confrontation 2. Tunable Laser 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	Major	Research Field
School of Energy Science and Engineering 能源科学与工程学院	0807 Power Engineering and Engineering Thermo-Physics 动力工程及工程热物理	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
Faculty of Computing 计算学部	0812 Computer Science and Technology 计算机科学与技术	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 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 软件工程	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 仪器科学与工程学院	0804 Instrument Science and Technology 仪器科学与技术	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 电气工程及自动化学院	0808 Electrical Engineering 电气工程	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 数学学院	0701 Mathematics 数学	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	Major	Research Field
School of Physics 物理学院	0702 Physics 物理学	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 机电工程学院	0802 Mechanical Engineering 机械工程	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 10. Industrial Design
	0825 Aeronautical and Astronautical Science and Technology (Discipline Direction: Manufacturing Engineering of Aerospace Vehicle) 航空宇航科学与技术（学科方向：航空宇航制造工程）	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 材料科学与工程学院	0805 Materials Science and Engineering 材料科学与工程	1. Intelligent Materials and Devices 2. Advanced Space Materials and Environmental Effects 3. Optoelectronic Information Science and Engineering 4. Advanced Metal and Ceramic Materials 5. Solidification Science and Engineering 6. Plastic Processing 7. Material Joining Science and Engineering
School of Management 经济与管理学院	1201 Management Science and Engineering 管理科学与工程	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 工商管理	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

School	Major	Research Field
School of Management 经济与管理学院	0202 Applied Economics 应用经济学	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 人文社科与法学学院	0201 Theoretical Economics 理论经济学	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 应用经济学	1. International Trade Theory and Practice 2. International Finance Theory and Empirical Research 3. WTO and Economic Globalization
	0303 Sociology 社会学	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 法学	1. Jurisprudence 2. Civil and Commercial Law 3. Criminal law 4. International Law
School of Civil Engineering 土木工程学院	0814 Civil Engineering 土木工程	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 力学	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 Systems 5. Civil Engineering Structure and System Design Theory
School of Environment 环境学院	0830 Environmental Science and Engineering 环境科学与工程	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

School	Major	Research Field
School of Environment 环境学院	0710 Biology (Discipline Direction: Microbiology) 生物学（学科方向: 微生物学）	1. Physiological Ecology of Environmental Microorganisms 2. Biotechnology and Molecular Biotechnology in Environmental Pollution Control 3. Biological Resources and Energy Development and Utilization
	0814 Civil Engineering(Discipline Direction: Municipal Engineering) 土木工程（学科方向：市政工程）	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 建筑学院	0813 Architecture 建筑学	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
	0814 Civil Engineering (Discipline Direction: Heating, Gas Supply, Ventilating and Air Conditioning Engineering) 土木工程（学科方向: 供热、供燃气、通风及空调工程）	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 城乡规划学	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 风景园林学	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 设计学	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	Major	Research Field
School of Transportation Science and Engineering 交通科学与工程学院	0823 Communication and Transportation Engineering 交通运输工程	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
	0814 Civil Engineering (Discipline Direction: Bridge and Tunnel Engineering) 土木工程（学科方向：桥梁与隧道工程）	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 Chemical Engineering 化工与化学学院	0817 Chemical Engineering and Technology 化学工程与技术	1. Chemical Power Supply 2. Electrochemical Surface Modification 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 食品科学与工程	1. Food Processing Engineering 2. Food Science 3. Chemistry of Natural Products 4. Extreme Environmental Nutrition
	0703 Chemistry 化学	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
	0703 Chemistry (Discipline Direction: Chemistry and Physics of Polymers) 化学（学科方向：高分子化学与物理）	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 马克思主义学院	0101 philosophy 哲学	1. Marxist Philosophy 2. Philosophy of Science and Technology
	0305 Marxist theory 马克思主义理论	1. Study on the Sinicization of Marxism 2. Ideological and Political Education 3. Research on the Basic Problems of Modern Chinese History

School	Major	Research Field
School of Electronics and Information Engineering 电子与信息工程学院	0810 Information and Communication Engineering 信息与通信工程	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 Life Science and Technology 生命科学与技术学院	0710 Biology 生物学	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) 生物医学工程（工学）	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) 生物医学工程（理学）	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 (English-Taught)

Category	School	Major	Research Field
Management	School of Management	0202 Applied Economics	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	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	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	1. The Theory and Practice of the Belt and Road Initiative 2. Application of Infrastructure Management 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	1. Optoelectronic Information Functional Materials and Devices 2. Materials Physics and Chemistry 3. Space Environmental effects of materials and devices 4. Metal and Ceramic Materials 5. Polymer Matrix Composites 6. Solidification Science and Engineering 7. Plastic Processing 8. Advanced Welding and Joining 9. Electronic Packaging Technology
Mechanical Engineering	School of Mechatronics Engineering	802 Mechanical Engineering	1. Mechanical Design and Theory 2. Mechanical Manufacture Automation 3. Mechatronic Engineering 4. Production Process Management

Category	School	Major	Research Field
Mechanical Engineering	School of Energy Science and Engineering	0807 Power Engineering and Engineering Thermo-Physics	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	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	Faculty of Computing	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
	School of Instrumentation Science and Engineering	0804 Instrument Science and Technology	Instrument Science and Technology
Chemical Engineering	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

School	Major	Research Field
School of Instrumentation Science and Engineering	0804 Instrument Science and Technology	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	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	1. Engineering Thermo-physics 2. Thermal Engineering 3. Power Machinery and Engineering 4. Fluid Machinery and Engineering 5. Refrigeration and Cryogenic Engineering
Faculty of Computing	0812 Computer Science and Technology	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 Engineering	1. Software Service Engineering 2. Software Engineering and Software Architecture 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	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

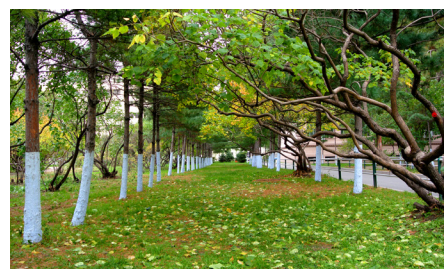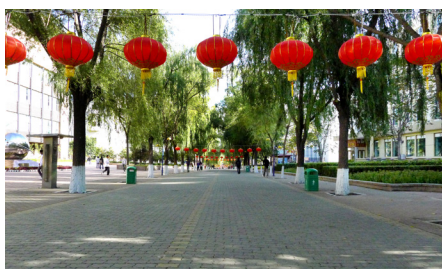| School	Major	Research Field
School of Astronautics	0801 Mechanics	1. Fatigue and Fracture Mechanics 2. Structural Optimization Design 3. Micromechanics 4. Solid Dynamics 5. Thermo/Mechanical/ Electrical/Chemical Multi-field Coupling Mechanics 6. Material and Structural Mechanics in Extreme Environment 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	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 Engineering	1. Space Optical Information Acquisition Technology and Processing 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	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

HIT Doctoral Degree Programs (Chinese-taught)

School	Major	Research Field
School of Mechatronics Engineering	0802 Mechanical Engineering	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	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	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	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	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

HIT Doctoral
Degree Programs (Chinese-taught)

School	Major	Research Field
School of Management	1204 Public Management	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	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	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	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	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	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	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	Major	Research Field
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 Systems 5. Civil Engineering Structure and System Design Theory

School	Major	Research Field
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	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 Doctoral
Degree Programs (English-taught)

School	Major	Research Field
School of Instrumentation Science and Engineering	0804 Instrument Science and Technology	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	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	1. Engineering Thermo-physics 2. Thermal Engineering 3. Power Machinery and Engineering 4. Fluid Machinery and Engineering 5. Refrigeration and Cryogenic Engineering
Faculty of Computing	0812 Computer Science and Technology	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 Engineering	1. Software Service Engineering 2. Software Engineering and Software Architecture 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	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

School	Major	Research Field
School of Astronautics	0801 Mechanics	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	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 Engineering	1. Space Optical Information Acquisition Technology and Processing 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	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	Major	Research Field
School of Mechatronics Engineering	0802 Mechanical Engineering	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	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	1. Optoelectronic Information Science and Engineering 2. Materials Physics and Chemistry 3. Advanced Space Materials and Environmental Effects 4. Advanced Metal and Ceramic Materials 5. Solidification Science and Engineering 6. Plastic Processing 7. Materials Joining Science and Engineering
School of Management	1201 Management Science and Engineering	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	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

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