



2016-2017 Chinese Government Scholarship Program Harbin Institute of Technology

I Application

The applicants should send their applications in time to the International Student Center (hereinafter referred to as ISC) of HIT before **31st December, 2015**.

II Eligibility

1. Applicants must be non-Chinese nationals in good health.
2. Education background required and age limit:
Applicants for master degree studies must have bachelor's degree and be under the age of 35;
Applicants for doctoral degree studies must have master's degree and be under the age of 40.
3. Excellent results in study.
4. Applicants should have good ability in scientific research.

Note: The scholarship cannot be combined with any other scholarship.

III Details of the Scholarship

1. Exempt from registration fee, tuition fee, fee for laboratory experiment, internship fee, fee for basic learning materials and on-campus accommodation fee;
2. Per year CNY 800 for Comprehensive Medical Insurance;
3. Monthly living allowance is granted to the students at the following rates (CNY Yuan per month):
Master degree candidate: CNY 3000 Yuan
Doctoral degree candidate: CNY 3500 Yuan

Complement:



1. The students are required to cover the expenses for experiments or internship, which exceeds the teaching arrangements of HIT.
2. The living allowances will be allotted monthly to the students from the time of registration at the ISC. The new students who register before 15th (15th included) of the registration month will enjoy the whole amount of living allowance of that month; those who register after the 15th will get that of a half month. Graduates will get the living allowances till 15 days after the graduation date set by HIT. The scholarship will be terminated from next month for the students who suspend their studies, quit or graduate from HIT. The students are entitled to living allowance during the vacation period arranged by the university. The living allowance, which students didn't get in time as the departure for vacation, can be refunded when they are back to school. The living allowances will be stopped for one month for the students who do not register on time without permission from the ISC beforehand, leave with non-health reasons or are absent from the university over a month.
3. Scholarship students who have to suspend their education for illness should return to their home country for further treatment and rest. The international travel expenses of returning and coming back should be paid for their own. The students, who are allowed by the school authority to suspend their education, can remain their scholarship. The scholarship status will be reserved one year at the most; however, the monthly living allowance will be stopped during the suspension of education. The scholarship status of the students who suspend their education for reasons other than illness will be terminated.
4. Comprehensive Insurance for International students in China refers to the Comprehensive Medical Insurance insured by Chinese Educational Ministry for the scholarship students in China. The institution is entitled to ask for compensation on the payment receipts from the insurance company for the expenses generated from hospitalizing for serious diseases or from accidental injury according to the stipulated insurance articles. The insurance company does not accept individual claims.



IV 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	1	2-3
2.	Doctoral Degree Students	3	1	3-4

V Application materials

The applicants must fill in and provide the following materials truly and correctly (in duplicate) and pay for the material assessment fee.

1. Application Form for Chinese Government Scholarship. Those who are available for online application shall fill in and print the application form after submitting online.
 - i. The CSC Online Application System for Study in China is available at <http://laihua.csc.edu.cn>
 - ii. **HIT university code is 10213**
 - iii. Online application time: From 1st October, 2015
2. Highest diploma (notarized photocopy). If applicants are university students or already employed, they should provide pre-graduation certificate or employment certificate.
3. Transcripts (notarized photocopy in English or Chinese).
4. A study or research plan (no less than 800 words).
5. Two recommendation letters by professors or associate professors.
6. Passport copy. (Valid not earlier than Feb.28, 2017)
7. Photocopy of Foreigner Physical Examination Form (printed by Chinese quarantine authority and only for those whose period of studies in China lasts up to six months). 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, official stamp of the hospital or a sealed photograph of the applicants are



invalid. The medical examination result is generally valid for 6 months.

8. Material Assessment Fee: 60 USD

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

NOTICE: Applicants should submit the paper application materials with remittance receipt. Whether admitted or not, paper materials and material assessment fee will not be returned. Please inform us promptly if the materials cannot be sent in time.

VI Selection of Specialty

Please visit our website at <http://www.studyathit.cn/en/> for more details. For more information about HIT, please visit <http://en.hit.edu.cn/index.asp>

VII Teaching Language

All doctoral degree programs are taught in English or Chinese. Master's degree programs are generally taught in Chinese, except the programs of Management, Materials, Civil Engineering, Mechanics and Electricity. Applicant with no command of Chinese is required to take one-year Chinese language course. For English-taught programs, applicant whose native language is not English should submit an English-proficiency score, a score of at least 550 on the TOEFL Internet-based exam or 5.5 on the IELTS.

VIII Approval and Notification

1. HIT will review all the application materials and is authorized to make necessary adjustments on specialties and duration of study. The application will be seen as invalid and will not be processed if the applicants are not qualified or the application materials



- are inconsistent with the recruitment regulations or are incomplete.
2. Applicants are encouraged to contact the professor prior to application and please enclose the relevant admission or recommendation letter if there is.
 3. Scholarship applicants accepted by HIT will be officially awarded the Chinese Government Scholarship with endorsement from CSC and submitted to MOEC for the record.
 4. Applicants are not permitted, in principle, to change their supervisors, specialties, institutions, or the duration of study specified in the Admission Notice after registration.
 5. HIT will send Admission Notice and Visa Application Form for Study in China (JW201) to the relevant dispatching authorities by July 31, so as to have these documents forwarded to the awardees.
 6. Applicants who cannot register before September 30 are regarded as giving up the scholarship.

IX Contact us

Ms. ZHAO Lin (Asia, Europe): Tel: +86-451-86402455 E-mail: studyatHIT@hit.edu.cn

Ms. LI Zhuoran (Oceania, Africa, Americas): Tel: +86-451-86402455 E-mail: lzhr@hit.edu.cn

Ms. MENG Xiaoli(Mongolia, Japan): Tel: +86-451-86412647 E-mail: mengxiaoli@hit.edu.cn

Ms. PIAO Yuejin (Korea): Tel: +86-451-86402455 E-mail: piaoyuejin@hit.edu.cn

Mr. LIU Wei (Russian Countries and Regions): Tel: +86-451-86412847 E-mail: anatolii@hit.edu.cn

Fax: 0086-451-86417792

Post Code: 150001

Website: <http://www.studyathit.cn>

Add: Room 300 No.11 Siling Street, Nangang District, Harbin 150001, China

Please mark clearly “CSC Scholarship Application” in the email subject or on the envelope.

The ISC will keep the Explanation authority for this brochure.



The following attachment is the Programs offered by HIT.

- ★ *HIT Doctoral Degree Programs*
- ★ *HIT Master's Degree Programs*
- ★ *Master's Degree Programs Taught in English*

Better University

Better Future





HIT Doctoral Degree Programs

School	Major	Direction
Department of Test Automation and Control System	Instrument Science and Technology	<ol style="list-style-type: none"> 1. Nanometer measurement and ultra precision instrument technology 2. Laser measurement and detection technology 3. Photoelectric measurement technology and instruments 4. Radiation temperature measurement and testing technology in thermal and physical properties 5. Image and information processing technology 6. The technology of electronic measurement and instrument 7. Sensor technology and light mechanical and electrical system 8. Test automation and control technology 9. Quality measurement technology and instruments
School of Energy Science and Engineering	Power Engineering and Engineering Thermo-physics	<ol style="list-style-type: none"> 1. The comprehensive utilization of energy and energy saving technology 2. Multiphase flow system engineering 3. Air pollution control technology 4. Convection. Pneumatic coupling heat transfer and radiation 5. Dynamic mechanical pneumatic thermodynamics 6. The optimization of supernormal parameter steam turbine 7. Thermal system dynamics and control machinery 8. The flow analysis of fluid power components 9. Automation in Petro-Chemical Industry
School of Computer Science and Technology	Computer Science and Technology	<ol style="list-style-type: none"> 1. High reliable high performance computer architecture 2. Mobile computing and embedded computing 3. The 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
	Software Engineering	<ol style="list-style-type: none"> 1. Software Service engineering 2. Software engineering and software architecture 3. Software trustworthiness and reliability



		<ol style="list-style-type: none"> 4. Intelligent software theory and machine learning 5. Business intelligence and data mining 6. Field of software engineering
Department of Control Science and Engineering	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. Pattern recognition and intelligent system 5. systems engineering
School of Electronics and Information Technology	Information and Communication Engineering	<ol style="list-style-type: none"> 1. Broadband communication theory and signal processing 2. Wireless mobile communication and network 3. Deep space communication theory and satellite communication technology 4. Modern signal processing theory and technology 5. Microwave imaging and target recognition technology 6. Advanced image processing theory and technology 7. Remote sensing information processing technology 8. Electronic countermeasure theory and technology 9. Electromagnetic theory and rf technology
Department of Electrical Engineering	Electrical Engineering	<ol style="list-style-type: none"> 1. electrical machinery and appliance 2. Power System and Automation 3. High Voltage and Insulation Technology 4. power electronics and power drives 5. The electrician theory and new technique
Department of Chemistry	Chemistry Engineering and Technology	<ol style="list-style-type: none"> 1. Surface and interface chemistry 2. Polymer composite and modification 3. electrochemical power source 4. Metal electrode position and chemical deposition 5. Preparation and performance of functional materials 6. Catalyst and catalytic reaction engineering 7. Biological synthesis and separation engineering 8. Bimolecular Engineering 9. New energy chemical industry
School of Mechanical and	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



Electrical Engineering		<ol style="list-style-type: none"> 8. The 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
	Aeronautical and Astronautical Science and Technology	<ol style="list-style-type: none"> 1. The space structure and control 2. Aerospace high precision manufacturing technology 3. Space robot technology 4. The space of special processing technology 5. Aircraft digital manufacturing technology 6. Aircraft ground simulation and testing technology
School of Materials Science and Engineering	Materials Science and Engineering	<ol style="list-style-type: none"> 1. Intelligent materials and devices 2. Photoelectric film material with quantum devices 3. Special optical fiber and device 4. Space material and its environmental effects 5. Metal and composite materials 6. Inorganic nonmetallic materials 7. Polymer and composite materials 8. Thin film materials and surface engineering 9. Solidification science and engineering 10. Plastic processing science and engineering 11. Materials science and engineering connection
School of Economy and Management	Management Science and Engineering	<ol style="list-style-type: none"> 1. Management information systems and decision support system 2. The electronic commerce and business intelligence 3. Project management theory and method 4. Urban management theory and method 5. Systems engineering theory and method
	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



		<ul style="list-style-type: none"> 5. Investment and financing theory and financial engineering 6. The sustainable development theory, method and policy 7. Management control. Corporate governance and corporate value
	Public Administration	<ul style="list-style-type: none"> 1. Public policy analysis and simulation 2. City management and government management innovation 3. Influence of public policy evaluation 4. Infrastructure, economy and management
Department of Physics	Physics	<ul style="list-style-type: none"> 1. Nonlinear optics and laser spectroscopy 2. Military information photonics technology and devices 3. Nano photonics and surface from excimer optics, etc 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. The 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. On ultra-weak bioluminescence (uwl) and optical imaging technology
Department of Mathematics	Mathematics	<ul style="list-style-type: none"> 1. Calculus 2. Algebra 3. Topology 4. Differential equation 5. Numerical analysis of differential equations 6. Scientific calculation 7. Probability and statistics 8. Functional differential equation
School of Humanities and Social Science	Sociology	<ul style="list-style-type: none"> 1. Theory and practice 2. Sociology engineering technology 3. Social development and the underclass 4. Social development and the underclass 5. The network society
Department of Aerospace Engineering and	Mechanics	<ul style="list-style-type: none"> 1. Structural Dynamics and vibration control 2. Dynamics of composite materials 3. Concept of micro Dynamics 4. Solid Dynamics 5. Dynamic inverse problem and fault diagnosis 6. Material performance characterization and failure analysis



Mechanics		<ul style="list-style-type: none"> 7. nonlinear kinetics 8. Intelligent material systems and structures 9. fluid Dynamics 10. optimum structural design
	Aeronautical and Astronautical Science and Technology	<ul style="list-style-type: none"> 1. Aircraft system optimization design and simulation 2. Aircraft system optimization design and simulation 3. Deep space probe landing and return 4. Space structure Dynamics and control 5. The effect of space environment and protection
Department of Electronics Science and Technology	Optical Engineering	<ul style="list-style-type: none"> 1. Space optical access to information 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 optics technology and application 10. photoelectric device and technology
	Electronics Science and Technology	<ul 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. Mixed signal and rf IC/a 8. Integrated sensor technology 9. System-on-a-chip SoC and IP design technology 10. Microwave transmission theory and antenna system
School of Chemical Engineering & Technology	Chemistry Engineering and Technology	<ul style="list-style-type: none"> 1. Surface and interface chemistry 2. Polymer composite and modification 3. electrochemical power source 4. Metal electrodeposition and chemical deposition 5. Preparation and performance of functional materials 6. Catalyst and catalytic reaction engineering 7. Biological synthesis and separation engineering 8. Bimolecular Engineering 9. New energy chemical industry



School of Municipal and Environmental Engineering	Civil Engineering	<ol style="list-style-type: none">1. Urban drinking water security2. Sludge wastewater treatment and reuse theory and technology3. Urban water system digital and network optimization4. The microbiology and chemical environment and water science5. Optimal allocation of urban water resources protection. With the development and utilization6. Solid waste reduction, resource and energy7. Circular economy and low-carbon technologies8. Heating calculation theory and application technology9. Ventilation and air conditioning theory and application10. Building energy efficiency and energy utilization11. Gas storage and transportation and urban gas application12. Hvac systems and control theory and technology13. built environment
	Environmental Science and Engineering	<ol style="list-style-type: none">1. Sludge wastewater treatment and reuse theory and technology2. The microbiology and chemical environment and water science3. Regional watershed pollution control. Environmental planning and ecological security4. Environmental science and functional materials with water5. Gaseous pollutants reduction and prevention and control technology6. Solid waste reduction, resource and energy7. New energy and energy conservation and emissions reduction technologies8. Circular economy and low-carbon technologies
School of Life Science and Technology	Biomedical Engineering	<ol style="list-style-type: none">1. Biomedical information technology2. Nano biotechnology and biological sensors3. Biomedical detection technology4. Biological electromechanical integration technology5. Biomedical image processing6. Tissue engineering and technology7. Tissue engineering and technology
School of Transportation Science and Technology	Communication and Transportation Engineering	<ol style="list-style-type: none">1. Road construction materials2. Composite subgrade stability technology3. Pavement Dynamics and design method4. Road nondestructive testing technology5. road transportation safety6. Transportation planning7. traffic economy



		<ul style="list-style-type: none"> 8. Intelligent transportation system 9. traffic management and control
	Civil Engineering	<ul style="list-style-type: none"> 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	Civil Engineering	<ul style="list-style-type: none"> 1. Geotechnical engineering and underground structure 2. Rock geological engineering to the environment 3. Large-span space and the high-rise structures 4. Steel structure. The wood structure and composite structure 5. Reinforced concrete structure. Masonry structure with prestressed structure 6. Bridge structure and offshore platform 7. Civil engineering construction and structure make a diagnosis and give treatment. Modification technology 8. Earthquake engineering and wind engineering 9. Major projects safety protection and urban disaster prevention and mitigation 10. High performance concrete. The intelligent materials and structures
	Mechanics	<ul style="list-style-type: none"> 1. Structural vibration, impact and control 2. And the reliability of structural damage. Health monitoring 3. Computational structural Dynamics and computational fluid Dynamics 4. Civil engineering intelligent materials and structures system 5. Civil engineering structure and the theory of system design
	Architecture	<ul style="list-style-type: none"> 1. The 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. The urban design and interior design
School of Architecture	Urban and Rural Planning	<ul style="list-style-type: none"> 1. Urban and rural planning theory and methods 2. Urban historical and 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



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





HIT Master's Degree Programs

School	Major	Direction
School of Astronautics Department of Aerospace Engineering and Mechanics	Mechanics	<ol style="list-style-type: none">1. Damage and fracture Dynamics2. Solid Dynamics3. Structural Dynamics and software engineering4. Composite materials and structural Dynamics5. Advanced composite materials performance characterization and failure analysis6. Composite material structure design, analysis, evaluation of integration7. Complex structural engineering reliability and optimization8. The spacecraft Dynamics and control9. Underwater bodies, fluid Dynamics and control10. Engineering system health monitoring and fault diagnosis technology11. nonlinear kinetics
School of Astronautics Department of Electronic Science and Technology	Optical Engineering	<ol style="list-style-type: none">1. The optical image and information processing technology2. High resolution optical remote sensing technology3. Target detection and recognition technology4. Modern photoelectric detection technology5. Photoelectric guidance and simulation technology6. Optical remote sensing technology7. Space photoelectric information technology8. Modern photoelectric detection technology9. Advanced optical processing and detection technology10. Modern optical technology11. Laser spatial information and confrontation12. Tunable laser, short wavelength laser13. Nonlinear optics, quantum optics technology and application14. Photoelectric device and technology15. Laser spectrum and the mechanism of laser medium



	1.physical electronics 2.microsystem electronics and solid state electronics	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. Mixed signal and rf IC/a 8. Integrated sensor technology 9. System level chip (SoC) and IP design technology
School of Astronautics Department of control science and engineering	Control Science and Engineering	1. Control Theory and Applications 2. Advanced Process Control 3. Modern testing technology 4. Navigation control system 5. inertial technology 6. Guidance, control and simulation 7. Pattern recognition theory and application 8. Intelligent control
School of Astronautics	Aeronautical and Astronautical Science and Technology	1. Aircraft systems engineering and design 2. Vehicle Dynamics and control 3. Vehicle autonomous navigation and control 4. Complex spacecraft Dynamics and control 5. Aircraft reliability and fault diagnosis 6. The integration of design and system simulation 7. Dynamic design and simulation of space agencies 8. Aircraft environment control and human-computer ergonomics 9. Environmental effect of spacecraft simulation and countermeasures 10. High speed impact Dynamics 11. Plasma engine principle and design theory 12. Plasma engine life and reliability 13. Plasma enhanced combustion and flow control 14. Supersonic combustion ramjet technology 15. Combination of advancing technology
		1.Clean coal combustion and pollutant emission reduction



<p>School of Energy Science and Engineering</p>	<p>Power Engineering and Engineering Thermo-physics</p>	<ol style="list-style-type: none"> 2. The flow of the impeller mechanical control, and its reliability optimization design technology research 3. Under extreme conditions of flow, heat transfer and mass transfer 4. Electric propulsion 5. Microscale heat physical process and cross-cultural dimension analysis 6. The theory of infrared thermal image target and environment modeling 7. Fluid machinery/chemical machinery of control and system optimization 8. The comprehensive utilization of energy and section technology 9. Multiphase flow system engineering 10. Air pollution control technology 11. Convection, pneumatic coupling heat transfer and radiation 12. Dynamic mechanical pneumatic thermo Dynamics 13. The optimization of supernormal parameter steam turbine 14. Thermal system Dynamics and control machinery 15. The flow analysis of fluid power components 16. Automation in Petro-Chemical Industry
<p>School of Computer Science and Technology</p>	<p>Computer Science and Technology</p>	<ol style="list-style-type: none"> 1. High reliability and fault-tolerant computing 2. Mobile computing 3. The computer network and information security technology 4. Huge amounts of data calculation 5. Intelligent interface and human-computer interaction 6. Natural language computing technology 7. Enterprise computing and service computing 8. Biological computing and information technology 9. Multi-agent robotic technology 10. Artificial Intelligence and Pattern Recognition 11. Space computing technology and its application <ol style="list-style-type: none"> 1. Software engineering and service computing 2. Service science and engineering



	Software Engineering	<ol style="list-style-type: none">3. Software engineering and software architecture4. Software reliability and software testing5. Intelligent software theory and machine learning6. Data mining and business intelligence7. Software engineering application (① Network & Information Security Technology ② Language processing and information retrieval ③ Digital media and games ④ mobile internet ⑤ Internet of Things Engineering ⑥ Digital enterprise and e-commerce ⑦ Embedded system and software ⑧ Image processing and retrieval ⑨ Biological information processing software)
School of Electrical Engineering and Automation	Instrument Science and Technology	<ol style="list-style-type: none">1. Ultra precision manufacturing technology and equipment engineering2. Laser measurement and detection technology3. Photoelectric measurement technology and instruments4. Biological image measurement technology5. Radiation temperature measurement and testing technology in thermal and physical properties6. Measurement and control technology and signal processing7. Modern sensor technology and MEMS8. Test automation and control technology9. Intelligence tests and information processing technology
	Electrical Engineering	<ol style="list-style-type: none">1. New technology of modern electric network analysis and design2. Engineering electromagnetic field theory and numerical analysis3. The integrated motor system4. Micro & special motor and its control5. Electric intelligent and network technology6. Electrical reliability and testing technology7. Power System Analysis and Control8. Power system operation and operation9. Power electronic technology and application10. The electromagnetic drive control and power



		transmission control 11. Process control automation 12. Building automation 13. Flexible power system 14. Power optical measurement and protection
School of Science Department of Mathematics	1. Fundamental Mathematics 2. Computing Mathematics 3. Probability Theory and Mathematical Statistics 4. Applied Mathematics, 5. Operational Research and Cybernetics	1. functional analysis 2. Algebra and number theory 3. Topology 4. Geometry 5. partial differential equation 6. ordinary differential equation 7. Numerical analysis and scientific computing 8. Harmonic analysis and Fourier analysis 9. probability and mathematical statistics 10. optimization theory
School of Science Department of Physics	1. Particle Physics and Atomic Nucleus Physics 2. Atom and Molecule Physics 3 Condensed Matter Physics	1. Nonlinear optics and photonic devices 2. Military photonics 3. Nano photonics and nanometer materials physics 4. Optical information handling 5. Functional materials physics and applications 6. Physical crosses extreme conditions 7. Theory of Condensed Matter 8. Hadron physics 9. Hadron physics 10. Atomic and molecular physics 11. plasma physics
School of Science Department of Chemistry	1. Inorganic Chemistry 2. Analytical Chemistry 3. Organic Chemistry 4. Physical Chemistry	1. Laser spectroscopy applications 2. Supramolecular chemistry and molecular imprinting technology 3. Computational chemistry application 4. Inorganic, organic functional materials and composite material preparation 5. Energy conversion function materials and solar cells 6. Space and nanometer functional materials 7. Isolation and identification of natural drugs



		<ol style="list-style-type: none">8. And organic photochemistry in organic synthesis9. macromolecule materials10. Catalyst and catalytic technology11. asymmetric catalysis
School of Mechanical and Electrical Engineering	<ol style="list-style-type: none">1. Mechanical Manufacture and Automation2. Mechatronic Engineering3. Mechanical Design and Theory4. Engineering Management	<ol style="list-style-type: none">1. Precision and ultra-precision processing technology2. Micro-Nano manufacturing techniques3. Special processing and special material processing technology4. Modern design theory and method5. Digital Design and Manufacturing Technology6. Mechanical and electrical system control and automation7. Modern sensor and testing technology8. The fluid flow control and automation9. Robot technology and system10. Special transmission intelligent design and control11. Tribology basic theory and application technology12. Engineering structure design and analysis13. Vibration and Noise Control14. Biomechanical Engineering15. Production system automation technology16. Manufacturing system engineering management17. Vehicle Dynamics and control18. Vehicles of modern manufacturing technology
	Manufacturing Engineering of Aerospace Vehicle	<ol style="list-style-type: none">1. The space agencies and control2. Aerospace high precision manufacturing technology3. Space robot technology4. The space of special processing technology5. Aircraft digital manufacturing technology6. Aircraft ground simulation and testing technology
	Design (Industrial Design)	<ol style="list-style-type: none">1. Digital Media Design2. Industrial design3. environmental art design4. Chinese traditional art and digital design
	<ol style="list-style-type: none">1. Material Physics and	<ol style="list-style-type: none">1. Metal and ceramic materials2. Surface engineering



School of Materials Science and Engineering	Chemistry 2. Material Science 3. Material Processing Engineering 4. Space Materials and Processing 5. Information Materials and Devices	3. The material behavior under the space environment 4. Polymer matrix composite 5. Macroscopic Dynamics of composite materials 6. Information function material and devices 7. Biomedical materials and devices 8. Science and solidification of liquid forming technology 9. Plastic forming theory and technology 10. Between materials science and technology
School of Economy and Management	1.Monetary Finance 2.International Trade	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
	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 of statistical analysis, Decision theory and the 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
	1.Accounting 2.Enterprise Management 3.Technical Economics and Management	1. Project management decisions 2. Enterprise Innovation and Entrepreneurship 3. Business operations and strategy 4. Human resource management 5. enterprise marketing strategy 6. Business Logistics/Supply Chain Management 7. Financial accounting practice 8. Corporate finance 9. Cost and management accounting application



	Public Administration	<ol style="list-style-type: none">1. Administrative management theory and research methods2. Public sector reform and practice3. Policy analysis and evaluation of projects4. Local governance and development strategy
	Education Economics and Management	<ol style="list-style-type: none">1. engineering education and management research2. Russian higher education research3. Science and technology information and university research management research4. Institutional Research
	Land Resource Management	<ol style="list-style-type: none">1. The urban land economic2. Land Planning and Utilization3. Land resources information management4. Real estate development and management
School of Humanities and Social Science	Marxist philosophy	<ol style="list-style-type: none">1. Dialectics. Epistemology research2. Historical materialism and social development research3. Marxist philosophy and Chinese traditional philosophy research4. Marxist philosophy research abroad
	Philosophy of Science and Technology	<ol style="list-style-type: none">1. Modern technology and technology philosophy research2. Science and technology and social development research3. The ecological philosophy and sustainable development research4. Engineering philosophy research
	political economy	<ol style="list-style-type: none">1. Macroeconomic theory and policy2. Investment in economic theory,3. The study population resources and environment
	World Economy	<ol style="list-style-type: none">1. Macroeconomic theory and policy2. International Trade Theory And Policy3. Regional economic studies
	International Trade	<ol style="list-style-type: none">1. International trade theory and practice2. The international financial theory and empirical3. The WTO and economic globalization
	Sociology	<ol style="list-style-type: none">1. Research on social problems of information and network



		<ol style="list-style-type: none"> 2. Research development and modernization 3. The human way of life 4. Sociological research methods and methodology 5. Sociology engineering technology 6. Cultural sociology and social theory 7. Urban political and community research
	Marxist theory	<ol style="list-style-type: none"> 9. The basic principle of Marxism research 10. Foreign Marxism research 3. Ideological and political education theory and practice research 4. Ecological Marxism and socialism 5. Political ethics and social ethics research 6. Study of contemporary political thought and social ideological trend
School of Civil Engineering	Mechanics	<ol style="list-style-type: none"> 1. Structural vibration, impact, explosion and control 2. Structural damage, reliability, and health monitoring 3. Computational structural Dynamics and computational fluid Dynamics 4. Civil engineering intelligent materials and structures system 5. Civil engineering structure and the theory of system design
	Civil Engineering	<ol style="list-style-type: none"> 1. Steel structure. The wood structure and composite structure 2. Reinforced concrete structure and masonry structure 3. geotechnical engineering 4. Disaster prevention and reduction engineering and protective engineering 5. Bridge and Tunnel Engineering 6. Offshore engineering structure 7. civil engineering materials
School of Municipal and Environmental	1.Municipal Engineering 2.Environmental Science and 3.Engineering Urban Water Resource	<ol style="list-style-type: none"> 1. Water treatment theory and technology 2. Water supply and drainage engineering system and its optimization 3. Municipal solid waste management theory and technology 4. The use of water resources and urban planning 5. Air pollution control theory and technology



Engineering	4.Microbiology	6. Pollution control of physical chemistry theory and technology 7. Pollution control of molecular ecology, systems biology and process
	Heating, Gas Supply, Ventilating and Air-Conditioning 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
	1.Hydraulics and River Mechanics 2.Hydromechanics	1. Fluid Dynamics of municipal and environmental engineering 2. Flow and heat transfer numerical simulation in the process of exchange 3. The transient hydrodynamic process 4. In building environment and equipment engineering fluid Dynamics 5. The complex mixture flow in pipe
School of Architecture	Architecture	1. The architectural design and theory 2. Public architecture design and its theory 3. Green building theory and the energy saving technology 4. City and building physical environment 5. Chinese and foreign architectural history and heritage protection 6. Urban design theory 7. Interior design theory 8. Building plan and its theory
	Urban Planning	1. Urban and rural planning and design theory and method 2. Urban form and planning theory 3. Cold environment planning 4. Urban historical and cultural protection planning theory 5. Urban and rural security and regional planning theory



	Landscape Architecture	<ol style="list-style-type: none">1. Cold landscape architecture planning and design theory and method2. Landscape ecology theory and method3. Landscape architecture and landscape heritage protection theory4. Landscape architecture history and theory
	Design (Digital Media)	<ol style="list-style-type: none">1. Environmental art design and theoretical study2. Product design and theoretical research3. Visual communication design and theoretical study4. Public art design and theoretical study5. Design education and management research
School of Transportation Science and Technology	Bridge & Tunnel Engineering	<ol style="list-style-type: none">1. Bridge structure design theory and construction technology2. Vehicle bridge coupling vibration3. anti-seismic bridges4. Reinforce existing bridge condition assessment and testing5. The compound material to bridge structure6. bridge health monitoring
	<ol style="list-style-type: none">1. Road & Railway Engineering2. Traffic Information Engineering & Control3. Transportation Planning & Management4. Vehicle Operation Engineering	<ol style="list-style-type: none">1. Road construction materials2. Road Bed & Road Surface Project3. Road alignment design theory4. Transportation planning and management5. transportation safety6. Traffic information and control7. Economics and management8. Logistics engineering9. Road traffic environment10. intelligent transportation system
School of Chemical Engineering & Technology	Macromolecule Chemistry and Physics	<ol style="list-style-type: none">1. Composite material surface modification and characterization2. Polymer modification3. functional polymer4. High performance fiber5. molecular simulation



	Chemistry Engineering and Technology	<ol style="list-style-type: none">1. electrochemical power source2. Electrochemical surface modification3. Composite polymer interface chemistry and engineering4. Polymerization and engineering5. green chemical technology6. Inorganic functional material preparation and application7. New type of catalyst8. Catalytic reaction engineering9. Biological process10. Biological synthesis and separation engineering
School of Law	Science of Law	<ol style="list-style-type: none">1 international public law2. International economic law3. private international law
School of Chemical Engineering & Technology	<ol style="list-style-type: none">1. Biochemical Engineering2. Food Science	<ol style="list-style-type: none">1. Food production and preservation2. Food chemistry3. food biotechnology4. Functional food nutrition and extreme environment5. biochemical engineering (5.1 Biological process 5.2 Biological synthesis and separation engineering (With the institute of chemical industry))
Department of Sports	Theory of Sports Pedagogy and Training	<ol style="list-style-type: none">1. Track and field teaching training theory and method2. Snow and ice teaching training theory and method3. College sports and health teaching theories and methods
School of Electronics and Information Technology	Electromagnetism Field and Microwave Technology	<ol style="list-style-type: none">1.Microwave millimeter wave circuit theory and system2.Antenna theory and technology3.Microwave integrated circuits and CAD4.Electromagnetic compatibility technology5.The transient electromagnetic field theory and application6.Artificial electromagnetic material theory and application
	Information and Communication Engineering	<ol style="list-style-type: none">1.Broadband communications theory and technology2.Information transmission theory and coding technology3.Mobile communication and satellite related



		<p>technologies</p> <ol style="list-style-type: none">4.The new system radar theory and technology5.Modern signal processing theory and technology6.Radar imaging and target recognition technology7.digital image processing theory and techniques8.Theories and Techniques of Anti-information9.Data acquisition theory and application10.Remote sensing information processing and application of technology
School of Life Science and Technology	Biology	<ol style="list-style-type: none">1. biology of cancer2. Microbial genetic engineering3. developmental biology4. Neurobiology5. space biology / aerospace medicine6. Protein structure and function7. structural molecular biology
	Biomedical Engineering	<ol style="list-style-type: none">1. Nano-biotechnology2. Medical physics and engineering3. Biology Information Technology4. Medical image processing5. Surgical navigation and planning6. medical instruments7. Biological electrical signal processing8. Tissue engineering and biomaterials



HIT Master's Degree Programs Taught in English

Category	School	Major	Direction
Electricity	School of Astronautics Department of Electronic Science and Technology	1.Physical Electronics 2.microsystem electronics and solid state electronics	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. Mixed signal and rf IC/a 8. Integrated sensor technology 9. System level chip (SoC) and IP design technology
	School of Astronautics Department of control science and engineering	Control Science and Engineering	1. Control Theory and Applications 2. Advanced Process Control 3. Modern testing technology 4. Navigation control system 5. inertial technology 6. Guidance, control and simulation 7. Pattern recognition theory and application
	School of Electronics and Information Technology	Electromagnetism Field and Microwave Technology	1.Microwave millimeter wave circuit theory and system 2.Antenna theory and technology 3.Microwave integrated circuits and CAD 4.Electromagnetic compatibility technology 5.The transient electromagnetic field theory and application 6.Artificial electromagnetic material theory and application
		Information and Communication Engineering	1.Broadband communications theory and technology 2.Information transmission theory and coding technology



			<ul style="list-style-type: none">3.Mobile communication and satellite related technologies4.The new system radar theory and technology5.Modern signal processing theory and technology6.Radar imaging and target recognition technology7.digital image processing theory and techniques8.Theories and Techniques of Anti-information9.Data acquisition theory and application10.Remote sensing information processing and application of technology
	School of Computer Science and Technology	Computer Science and Technology	<ul style="list-style-type: none">1. High reliability and fault-tolerant computing2. Mobile computing3. The computer network and information security technology4. Huge amounts of data calculation5. Intelligent interface and human-computer interaction6. Natural language computing technology7. Enterprise computing and service computing8. Biological computing and information technology9. Multi-agent robotic technology10. Artificial Intelligence and Pattern Recognition11. Space computing technology and its application
		<ul style="list-style-type: none">1. Mechanical Manufacture & Automation2.Mechatronic Engineering3.Mechanical	<ul style="list-style-type: none">1. Precision and ultra-precision processing technology2. Micro-Nano manufacturing techniques3. Special processing and special material processing technology4. Modern design theory and method



Mechanics	School of Mechanical and Electrical Engineering	Design and Theory 4. engineering management	<ul style="list-style-type: none"> 5. Digital Design and Manufacturing Technology 6. Mechanical and electrical system control and automation 7. Modern sensor and testing technology 8. The 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 of modern manufacturing technology
	School of Mechanical and Electrical Engineering	Manufacturing Engineering of Aerospace Vehicle	<ul style="list-style-type: none"> 1. The space agencies and control 2. Aerospace high precision manufacturing technology 3. Space robot technology 4. The space of special processing technology 5. Aircraft digital manufacturing technology 6. Aircraft ground simulation and testing technology
	School of Energy Science and Engineering	Power Engineering and Engineering Thermo-physics	<ul style="list-style-type: none"> 2. Clean coal combustion and pollutant emission reduction 4. The flow of the impeller mechanical control, and its reliability optimization design technology research 3. Under extreme conditions of flow, heat transfer and mass transfer



			<ol style="list-style-type: none"> 4. Electric propulsion 5. Microscale heat physical process and cross-cultural dimension analysis 6. The theory of infrared thermal image target and environment modeling 7. Fluid machinery/chemical machinery of control and system optimization 8. The comprehensive utilization of energy and section technology 9. Multiphase flow system engineering 10. Air pollution control technology 11. Convection, pneumatic coupling heat transfer and radiation 12. Dynamic mechanical pneumatic thermo Dynamics 13. The optimization of supernormal parameter steam turbine 14. Thermal system Dynamics and control machinery 15. The flow analysis of fluid power components 16. Automation in Petro-Chemical Industry
Materials	School of Materials Science and Engineering	<ol style="list-style-type: none"> 1. Material Physics and Chemistry 2. Material Science 3. Material Processing Engineering 4. Space Materials and Processing 5. Information Materials and Devices 	<ol style="list-style-type: none"> 1. Metal and ceramic materials 2. Surface engineering 3. The material behavior under the space environment 4. Polymer matrix composite 5. Macroscopic Dynamics of composite materials 6. Information function material and devices 7. Biomedical materials and devices 8. Science and solidification of liquid forming technology 9. Plastic forming theory and technology 10. Between materials science and technology
		1.Monetary Finance	1. International industry and technology transfer



Management	School of Economy and Management	2.International Trade	<ol style="list-style-type: none"> 2. International trade theory 3. Industry economic theory and method 4. The financial policy and regulation 5. financial economics 6. financial engineering
	School of Economy and Management	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 of statistical analysis, Decision theory and the 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
	School of Economy and Management	<ol style="list-style-type: none"> 1.Accounting 2.Enterprise Management 3.Technical Economics and Management 	<ol style="list-style-type: none"> 1. Project management decisions 2. Enterprise Innovation and Entrepreneurship 3. Business operations and strategy 4. Human resource management 5. enterprise marketing strategy 6. Business Logistics/Supply Chain Management 7. Financial accounting practice 8. Corporate finance 9. Cost and management accounting application
	School of Economy and Management	Public Administration	<ol style="list-style-type: none"> 1. Administrative management theory and research methods 2. Public sector reform and practice 3. Policy analysis and evaluation of projects 4. Local governance and development strategy



	School of Economy and Management	Education Economics and Management	<ol style="list-style-type: none"> 1. engineering education and management research 2. Russian higher education research 3. Science and technology information and university research management research 4. Institutional Research
	School of Economy and Management	Land Resource Management	<ol style="list-style-type: none"> 1. The urban land economic 2. Land Planning and Utilization 3. Land resources information management 4. Real estate development and management
Civil Engineering	School of Civil Engineering	Mechanics	<ol style="list-style-type: none"> 1. Structural vibration, impact, explosion and control 2. Structural damage, reliability, and health monitoring 3. Computational structural Dynamics and computational fluid Dynamics 4. Civil engineering intelligent materials and structures system 5. Civil engineering structure and the theory of system design
	School of Civil Engineering	civil engineering	<ol style="list-style-type: none"> 1. Steel structure. The wood structure and composite structure 2. Reinforced concrete structure and masonry structure 3. geotechnical engineering 4. Disaster prevention and reduction engineering and protective engineering 5. Bridge and Tunnel Engineering 6. Offshore engineering structure 7. civil engineering materials
	School of Municipal and Environmental Engineering	<ol style="list-style-type: none"> 1. Municipal Engineering 2. Environmental Science and 3. Engineering Urban Water Resource 	<ol style="list-style-type: none"> 1. Water treatment theory and technology 2. Water supply and drainage engineering system and its optimization 3. Municipal solid waste management theory and technology 4. The use of water resources and urban planning



		4. Microbiology	5. Air pollution control theory and technology 6. Pollution control of physical chemistry theory and technology 7. Pollution control of molecular ecology, systems biology and process
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