Contents

目 录

Master Program (for International Students) in Mathematics	1
Master Program (for International Students) in Physics	4
Master Program (for International Students) in Mechanical Engineering	7
Master Program (for International Students) in Optical Engineering	10
Master Program (for International Students) in Materials Science and Engineering	13
Master Program (for International Students) in Electrical Engineering	17
Master Program (for International Students) in Electronic Science and Technology	20
Master Program (for International Students) in Information and Communication Engineering	23
Master Program (for International Students) in Control Science and Engineering	27
Master Program (for International Students) in Computer Science and Technology	30
Master Program (for International Students) in Biomedical Engineering	33
Master Program (for International Students) in Software Engineering	36
Master Program (for International Students) in Public Management	39
Ph.D Program (for International Students) in Physics	42
Ph.D Program (for International Students) in Mechanical Engineering	46
Ph.D Program (for International Students) in Optical Engineering	50
Ph.D Program (for International Students) in Materials Science and Engineering	54
Ph.D Program (for International Students) in Electronic Science and Technology	58
Ph.D Program (for International Students) in Information and Communication Engineering	62
Ph.D Program (for International Students) in Control Science and Engineering	67
Ph.D Program (for International Students) in Computer Science and Technology	71
Ph.D Program (for International Students) in Biomedical Engineering	75
Ph.D Program (for International Students) in Software Engineering	79
Ph.D Program (for International Students) in Management Science and Engineering	83
Ph.D Program (for International Students) in Business Administration	87

数学 来华留学硕士培养方案	91
物理学 来华留学硕士培养方案	93
机械工程 来华留学硕士培养方案	95
光学工程 来华留学硕士培养方案	97
材料科学与工程 来华留学硕士培养方案	99
电气工程 来华留学硕士培养方案	102
电子科学与技术 来华留学硕士培养方案	104
信息与通信工程 来华留学硕士培养方案	106
控制科学与工程 来华留学硕士培养方案	109
计算机科学与技术 来华留学硕士培养方案	112
生物医学工程 来华留学硕士培养方案	115
软件工程 来华留学硕士培养方案	118
公共管理 来华留学硕士培养方案	120
物理学 来华留学博士培养方案	122
机械工程 来华留学博士培养方案	125
光学工程 来华留学博士培养方案	128
材料科学与工程 来华留学博士培养方案	131
电子科学与技术 来华留学博士培养方案	134
信息与通信工程 来华留学博士培养方案	137
控制科学与工程 来华留学博士培养方案	140
计算机科学与技术 来华留学博士培养方案	143
生物医学工程 来华留学博士培养方案	146
软件工程 来华留学博士培养方案	149
管理科学与工程 来华留学博士培养方案	152
工商管理 来华留学博士培养方案	155

Master Program (for International Students) in Mathematics

Mathematical Discipline of UESTC is identified as Key Primary Discipline in Sichuan Province, it has rights to grant Primary Discipline Doctoral and Postgraduate Programs and Post-doctoral Scientific Research Station, covering 5 secondary disciplines: Basic Mathematics, Computational Mathematics, Probability Theory and Mathematical Statistics, Applied Mathematics, Operations Research and Cybernetics. With the support of "10th Five-year", "11th Five-year", "211-Project" and "985-Project", the discipline has become more competitive in basic research, applied basic research and interdisciplinary research, with strong comprehensive advantages of discipline, and its research level and ability have been improved significantly. And now, the Mathematical Discipline has formed its own research directions, which are internationally influential and domestic leading, covering Numerical Linear Algebra and Scientific Computing, Modeling for Image and Visual Processing and High-Performance Numerical Algorithm, Dynamical Systems and Control, Numerical Solution of Differential/Integral Equations with Applications, Partial Differential Equations and Harmonic Analysis with Applications, Probability Theory with Applications, Porosity Modeling and Numerical Simulation, etc. Its theories and methods have played an important role in Physics, Chemistry, Biomedicine, Electronic Information Science, Life Science, Management Science, Automatic Control, Computer Science, Material Science, Environment Science and other fields.

1.Objectives

The major fosters high-level mathematical professionals who are brave in pursuing truth and dedicated to scientific research. Masters of mathematical discipline are expected to master the current situation of the cutting-edge research and development trend of the relevant fields at home and abroad, to independently carry out research on basic theories as well as frontier topics and make innovative research results. The master's degree recipients of this subject should be proficient in at least one foreign language with ability to read, write, listen and speak.

Masters of this discipline are also expected to have a preliminary understanding of Chinese history and culture, and to be capable of reading simple Chinese scientific and technical literatures and communicating with others in simple Chinese. A Survey of China and Comprehensive Chinese are compulsory for international postgraduates, who are required to pass the HSK 3 or equivalent Chinese language test by graduation.

2. Orientations

- 1) Modeling for Image and Visual Processing and High-Performance Numerical Algorithm
- 2) Numerical Linear Algebra and Scientific Computing with Applications

- 3) Numerical Solution of Differential/Integral Equations with Applications
- 4) Partial Differential Equations and Harmonic Analysis with Applications
- 5)Probability Theory with Applications
- 6)Optimization and its Application

3. Duration

The duration set for master candidates is 2 years full-time. An extension can be applied for by those who cannot finish their courses in time owing to objective causes, yet altogether 4 years is the last due.

4. Progression and Requirements

The minimum sum total credits for international students of master candidates are 26. Master candidates should complete the course work of no less than a total of 24 credits (out of which at least 15 credits should be acquired from degree courses), compulsory sections of no less than 2 credits. Master candidates should complete the thesis (or a research report) independently, and pass the degree thesis defense.

The supervisor responsibility mechanism is adopted in the education for international master candidates. The supervisor is responsible for the student's making of personal study plan, the choice of courses, and the completion of the research report or the degree thesis. The personal study plan cannot be changed without permission of the supervisor.

During the course work, according to specifications by the discipline, the student is to pass examinations held for the degree courses and examinations or assessments held for the other optional courses. Of all the degree courses, common core courses are compulsory; at least one in core courses should be taken. Master candidates are allowed to choose 1~2 inter-disciplinary core courses as their degree courses under supervisors' guidance. International students of Chinese language abilities can apply to take courses given in Chinese to local full-time graduate students and acquire corresponding credits if pass.

Those who fail to meet the requirements as described above can fill up the gap by repetition or make-up in the limit of one year. Those who fail to meet the credit requirements even till the end of the due time are to be terminated.

Course (Categories	Course Number	Course Name	Class Hours	Credits	Semester	Notes
	Common	6900005001	Comprehensive Chinese	60	2	1	Commulatory
	Core Course	6900005002	A Survey of China	40	2	2	Compulsory
Degree Courses	Major Core	1100016001	Stochastic Processes and Applications	60	3	1	
	Course	1100016004	Matrix Theory	60	3	1	

		1107016001	Functional Analysis	60	3	1	
		1107016002	Partial differential equations	60	3	1	
Degree Courses	Major Core Course	1107016004	Optimization Methods and Applications	50	2.5	1	
		1107016005	Numerical Analysis	60	3	1/2	
		1107016007	Numerical Algebra	50	2.5	2	
	Elective Major	1107016008	Numerical Solution of Partial Differential Equations	50	2.5	2	
Non-degree	Course	1107017011	Special Matrices	50	2.5	2	
Optional Courses	Other Elective Course	6900005003	Chinese Reading & Writing	60	2	2	
		6400006003	Academic Activities	0	1	1,2	Compulsory
Compulso	ory Section	6900006001	Chinese Proficiency Assessment	60	0	1,2	Compulsory
Compulsory Section		XX00025XXX	Elective Competence Development Courses	0	1	1,2	Compulsory

6. Compulsory Sections

The compulsory sections for international students of master candidates include three parts, a candidate is required to complete the following aspects:

1)Elective Competence Development Courses: through introducing the academic cutting edge knowledge, culture, arts and sports, etc., such courses are given to improve the master candidates' comprehensive competence. A candidate should take at least one course and get one credit after assessment.

2)Academic Activities: to enliven academic atmosphere and to further and broaden master candidates' scope of knowledge, one should attend at least five academic lectures within and out of UESTC, and fill in the Academic Activities Registration Form and get the official stamp upon attendance. One credit can be granted to the candidate when he/she succeeds in completing the above procedures.

3)Chinese Proficiency Assessment: The Ministry of Education requires the Chinese language ability of international graduates' to reach the level 3 based on the International Chinese Proficiency Standards at the time of graduation. Master's/doctoral students are required to undergo a Chinese assessment level 3 during their stay at the university, and those who meet the requirements are eligible to apply for their graduation defense. Chinese Proficiency Assessment is accredited by School of International Education.

7. Degree Thesis

Master Program (for International Students) in Physics

Physics is the natural science that involves the study of matter and its motion through space and time, along with related concepts such as energy and force. It is conducted to disclose the structure of matter, interaction between matters, and the motion laws of matters in order to understand the universe. It results in many significant technologies and products.

The School of Physics at University of Electronic Science and Technology of China has the primary objective of advancing knowledge of physics and training of qualified manpower to acquire and develop an economy based on high technology. It is also involved in inter-disciplinary research with other branches of science as well as engaging in collaborative work with industry. Six fields, Theoretical Physics, Condensed Matter Physics, Radio physics, Optics, Plasma Physics, and Quantum Physics and Quantum Information, have established their reputation for research excellence. Collaborations in research across national borders and disciplines have been built. The school intends to play a key role in the advancement of China into a high-tech era.

This programme offers excellent opportunities for students to further develop their potential as intellectual leaders for a wide range of career paths. They will not only acquire fundamental and emerging knowledge in physics, but also solve practical problems of relevance to industrial development.

1.Objectives

Candidates of Master of Science in Physics are expected to have a profound knowledge in fundamental physics and experimental skills. They are also required to have a clear vision of cutting-edge research and emerging trends in physics.

A Survey of China and Comprehensive Chinese are compulsory for international postgraduates, who are required to pass the HSK 3 or equivalent Chinese language test by graduation.

2. Orientations

1) Theoretical Physics 2) Condensed Matter Physics

3) Radio Physics 4) Optics

5) Plasma Physics 6) Quantum Physics and Quantum Information

3. Duration

The duration set for master candidates is 2 years full-time. An extension can be applied for by those who cannot finish their courses in time owing to objective causes, yet altogether 4 years is the last due.

4. Progression and Requirements

The minimum sum total credits for international students of master candidates are 26. Master

candidates should complete the course work of no less than a total of 24 credits (out of which at least 15 credits should be acquired from degree courses), compulsory sections of no less than 2 credits, complete the thesis (or a research report) independently, and pass the degree thesis defense.

The supervisor responsibility mechanism is adopted in the education for international master candidates. The supervisor is responsible for the student's making of personal study plan, the choice of courses, and the completion of the research report or the degree thesis. The personal study plan cannot be changed without permission of the supervisor.

During the course work, according to specifications by the discipline, the student is to pass examinations held for the degree courses and examinations or assessments held for the other optional courses. Of all the degree courses, common core courses are compulsory. Master candidates are allowed to choose 1~2 inter-disciplinary core courses as their degree courses under supervisors' guidance. International students of Chinese language abilities can apply to take courses given in Chinese to local full-time graduate students and acquire corresponding credits if pass.

Those who fail to meet the requirements as described above can fill up the gap by repetition or make-up in the limit of one year. Those who fail to meet the credit requirements even till the end of the due time are to be terminated.

Course (Categories	Course Number	Course Name	Class Hours	Credits	Semester	Notes
	Common	6900005001	Comprehensive Chinese	60	2	1	Commulación
	Core Course	6900005002	A Survey of China	40	2	2	Compulsory
		1100016001	Stochastic Processes and Applications	60	3	1	A.11
Degree		1107016004	Optimization Methods and Applications	50	2.5	1	At least 1 from 3
Courses	Major Core Course	1107016005	Numerical Analysis	60	3	1/2	
		0208096106	Advanced Electromagnetic Field Theory	60	3	1	
		1207026002	Quantum field theory (I)	50	2.5	1	
		1207026006	Advanced quantum mechanics	60	3	2	
		1207026026	General Relativity	40	2	2	
		0108107028	Radar Theory	30	1.5	2	
Non-degree Optional Courses	Elective Major Course	1207027013	Silicon-Based RF Integrated Circuits Design	20	1	1/2	
		1207027028	Nano-Optics	40	2	2	
		1207027029	Quantum Field Theory (II)	50	2.5	2	

Non-degree	Other						
Optional	Elective	6900005003	Chinese Reading & Writing	60	2	2	
Courses	Course						
Compulsory Section		6400006003	Academic Activities	0	1	1,2	
		6900006001	Chinese Proficiency Assessment	60	0	1,2	Compulsory
		1/1/00/00 51/1/1/	Elective Competence		1	1.0	Compuisory
		XX00025XXX	Development Courses	0	1	1,2	

6. Compulsory Sections

The compulsory sections for international students of master candidates include three parts, a candidate is required to complete the following aspects:

- 1)Elective Competence Development Courses: through introducing the academic cutting edge knowledge, culture, arts and sports, etc, such courses are given to improve the master candidates' comprehensive competence. A candidate should take at least one course and get one credit after assessment.
- 2) Academic Activities: to enliven academic atmosphere and to further and broaden master candidates' scope of knowledge, one should attend at least five academic lectures within and out of UESTC, and fill in the Academic Activities Registration Form and get the official stamp upon attendance. One credit can be granted to the candidate when he/she succeeds in completing the above procedures.
- 3)Chinese Proficiency Assessment: The Ministry of Education requires the Chinese language ability of international graduates' to reach the level 3 based on the International Chinese Proficiency Standards at the time of graduation. Master's/doctoral students are required to undergo a Chinese assessment level 3 during their stay at the university, and those who meet the requirements are eligible to apply for their graduation defense. Chinese Proficiency Assessment is accredited by School of International Education.

7. Degree Thesis

Master Program (for International Students) in Mechanical Engineering

Mechanical Engineering is the first level discipline based on natural science and engineering technology, which aims to study the related theory on mechanical design, manufacturing, control, operation and maintenance during the usage of the mechanical equipment, and further resolve practical engineering problems. This discipline covers several directions, such as mechanical design and theory, mechanical manufacturing and automation, and mechatronics engineering, which leads to the discipline advantage with the multi-disciplinary synthesis of machine, electronic information, and measurement & control technology.

1.Objectives

Masters of the discipline are expected to have a rather profound knowledge of the cutting-edge research and trend of the field and relatively sound grasp of the theoretical and systematic expertise in mechanical engineering fields, as are able to master corresponding experimental skills, to be proficient in the use of computers, at least familiar with one software closely related to the discipline, so as to independently conduct the high-level research by integrating the machine science and information science.

A Survey of China and Comprehensive Chinese are compulsory for international postgraduates, who are required to pass the HSK 3 or equivalent Chinese language test by graduation.

2. Orientations

- 1) Equipment reliability and equipment monitoring management
- 2) Intelligent manufacturing equipment,
- 3) Intelligent perception and control technology
- 4) Equipment intelligence design and simulation

3. Duration

The duration set for master candidates is 2 years full-time. An extension can be applied for by those who cannot finish their courses in time owing to objective causes, yet altogether 4 years is the last due.

4. Progression and Requirements

The minimum sum total credits for international students of master candidates are 26. Master candidates should complete the course work of no less than a total of 24 credits (out of which at least 15 credits should be acquired from degree courses), compulsory sections of no less than 2 credits, complete the thesis independently, and pass the degree thesis defense.

The supervisor responsibility mechanism is adopted in the education for international master

candidates. The supervisor is responsible for the student's making of personal study plan, the choice of courses, and the completion of the research report or the degree thesis. The personal study plan cannot be changed without permission of the supervisor.

During the course work, according to specifications by the discipline, the student is to pass examinations held for the degree courses and examinations or assessments held for the other optional courses. Of all the degree courses, common core courses are compulsory. Master candidates are allowed to choose 1~2 inter-disciplinary core courses as their degree courses under supervisors' guidance. International students of Chinese language abilities can apply to take courses given in Chinese to local full-time graduate students and acquire corresponding credits if pass.

Those who fail to meet the requirements as described above can fill up the gap by repetition or make-up in the limit of one year. Those who fail to meet the credit requirements even till the end of the due time are to be terminated.

Course (Categories	Course Number	Course Name	Class Hours	Credits	Semester	Notes
	Common	6900005001	Comprehensive Chinese	60	2	1	Comm. Inc.
	Core Course	6900005002	A Survey of China	40	2	2	Compulsory
		1100016001	Stochastic Processes and Applications	60	3	1	At least 1
		1100016004	Matrix Theory	60	3	1	from 3
		1107016005	Numerical Analysis	60	3	1/2	
Degree Courses	Major Core	0408026009	Micro-Electro-Mechanical System (MEMS)	40	2	1	
	Course	0408026010	Advanced Manufacturing Technology	40	2	1	
		0808126020	Embedded Operating System and Application	40	2	2	
		1107016004	Optimization Methods and Applications	50	2.5	1	
		0108106007	Signal Detection and Estimation	40	2	1	
	Elective	0408027013	Reliability Design	40	2	2	
N. 1	Major	0408027018	Machinery Dynamics	40	2	2	
Non-degree Optional Courses	Course	1008116004	Theories and Methods of Systems Engineering	40	2	1	
	Other Elective Course	6900005003	Chinese Reading & Writing	60	2	2	

Master Program (for International Students) in Mechanical Engineering

	6400006003	Academic Activities	0	1	1,2	Compulsory
Compulsory Section	6900006001	Chinese Proficiency Assessment	60	0	1,2	Compulsory
Compaisory Section	XX00025XXX	Elective Competence	0	1	1.2	Compulsory
	AAUUU23AAA	Development Courses	0	1	1,2	Compulsory

6. Compulsory Sections

The compulsory sections for international students of master candidates include three parts, a candidate is required to complete the following aspects:

- 1) Elective Competence Development Courses: through introducing the academic cutting edge knowledge, culture, arts and sports, etc, such courses are given to improve the master candidates' comprehensive competence. A candidate should take at least one course and get one credit after assessment.
- 2) Academic Activities: to enliven academic atmosphere and to further and broaden master candidates' scope of knowledge, one should attend at least five academic lectures within and out of UESTC, and fill in the Academic Activities Registration Form and get the official stamp upon attendance. One credit can be granted to the candidate when he/she succeeds in completing the above procedures.
- 3) Chinese Proficiency Assessment: The Ministry of Education requires the Chinese language ability of international graduates' to reach the level 3 based on the International Chinese Proficiency Standards at the time of graduation. Master's/doctoral students are required to undergo a Chinese assessment level 3 during their stay at the university, and those who meet the requirements are eligible to apply for their graduation defense. Chinese Proficiency Assessment is accredited by School of International Education.

7. Degree Thesis

Master Program (for International Students) in Optical Engineering

Optical Engineering, which mainly focuses on Light Information Acquisition, Optical Transmission, Optical Switching, Optical Information Processing and Photoelectric Image Display, has wide applications in the industry, and becomes an important discipline in the current information technology field.

The teaching and research area of Optical Engineering in UESTC covers the theory and application of the whole optical engineering discipline, especially strong in optical communication, photonic integration, infrared and sensing technology, panel display and imaging technology. The discipline has undertaken a number of national key research projects, receiving sufficient funds, and wining several state or provincial awards. The main research direction of this discipline has stepped into the leading position in China, also having a certain international influence.

The discipline of optical engineering was rated as A class discipline in the fourth round of discipline evaluation of national colleges and universities.

1.Objectives

Masters of the discipline are expected to have a rather profound knowledge of the cutting-edge research and trend of the field and a relatively sound grasp of the theoretical and systematic expertise, as are able to master corresponding experimental skills, to be proficient in the use of computers, familiar at least with one simulation software closely related to this discipline, able to contribute academic papers and exchange views in conferences, and to demonstrate rigorous spirits in scientific approaches and working style and professional ethics, so as to be competent in research, development, teaching or management jobs at research institutes and universities.

A Survey of China and Comprehensive Chinese are compulsory for international postgraduates, who are required to pass the HSK 3 or equivalent Chinese language test by graduation.

2. Orientations

- 1)Optic communication and optic integration
- 2)Photoelectric Detection and System Integration
- 3)Sensitive electronics and sensor network
- 4)Display and Imaging
- 5)Microwave photonics
- 6)Photoelectric measurement and control technology

3. Duration

The supervisor responsibility mechanism is adopted in the education for international master candidates. The supervisor is responsible for the student's making of personal study plan, the choice of courses, and the completion of the research report or the degree thesis. The personal study plan cannot be changed without permission of the supervisor.

The duration set for master candidates is 2 years full-time. An extension can be applied for by those who cannot finish their courses in time owing to objective causes, yet altogether 4 years is the last due.

4. Progression and Requirements

The minimum sum total credits for international students of master candidates are 26. Master candidates should complete the course work of no less than a total of 24 credits (out of which at least 15 credits should be acquired from degree courses), compulsory sections of no less than 2 credits, complete the thesis independently, and pass the degree thesis defense.

During the course work, according to specifications by the discipline, the student is to pass examinations held for the degree courses and examinations or assessments held for the other optional courses. Of all the degree courses, common core courses are compulsory. Master candidates are allowed to choose 1~2 inter-disciplinary core courses as their degree courses under supervisors' guidance. International students of Chinese language abilities can apply to take courses given in Chinese to local full-time graduate students and acquire corresponding credits if pass.

Those who fail to meet the requirements as described above can fill up the gap by repetition or make-up in the limit of one year. Those who fail to meet the credit requirements even till the end of the due time are to be terminated.

Course (Categories	Course Number	Course Name	Class Hours	Credits	Semester	Notes
	Common	6900005001	Comprehensive Chinese	60	2	1	Camanalasan
	Core Course	6900005002	A Survey of China	40	2	2	Compulsory
		1100016001	Stochastic Processes and Applications	60	3	1	At least 1
	Major Core Course	1100016004	Matrix Theory	60	3	1	from 3
Degree Courses		1107016005	Numerical Analysis	60	3	1/2	
		0108106013	Digital Communications	40	2	2	
		0108106014	Digital Signal Processing	40	2	1	
		0108106020	Fiber Optical Communication	30	1.5	2	
		0508036001	Optoelectronics Technology	40	2	1	
		0508036021	Fiber Optics	30	1.5	1	

		0108106007	Signal Detection and Estimation	40	2	1	
		0108107026	Optical Fiber Technology	40	2	1	
	E1 .:	0508037029	Optoelectronics and Photonics	20	1	1	
	Elective Major	0508037033	Organic Electronics	20	1	2	
Non-degree	Course	0808126016	Network Security	60	3	1	
Optional Courses		0808127022	Mathematical Fundamental of Information Security	40	2	1	
		1207026016	Nano-optics	40	2	1,2	
	Other Elective Course	6900005003	Chinese Reading & Writing	60	2	2	
		6400006003	Academic Activities	0	1	1,2	Compulsory
Compulso	Compulsory Section		Chinese Proficiency Assessment	60	0	1,2	Compulsory
Compuiso			Elective Competence Development Courses	0	1	1,2	Compulsory

6. Compulsory Sections

The compulsory sections for international students of master candidates include three parts, a candidate is required to complete the following aspects:

- 1) Elective Competence Development Courses: through introducing the academic cutting edge knowledge, culture, arts and sports, etc, such courses are given to improve the master candidates' comprehensive competence. A candidate should take at least one course and get one credit after assessment.
- 2) Academic Activities: to enliven academic atmosphere and to further and broaden master candidates' scope of knowledge, one should attend at least five academic lectures within and out of UESTC, and fill in the Academic Activities Registration Form and get the official stamp upon attendance. One credit can be granted to the candidate when he/she succeeds in completing the above procedures.
- 3) Chinese Proficiency Assessment: The Ministry of Education requires international graduates' Chinese language ability of to reach the level 3 based on the International Chinese Proficiency Standards at the time of graduation. Master's students are required to undergo a Chinese assessment level 3 during their stay at the university, and those who meet the requirements are eligible to apply for their graduation defense. Chinese Proficiency Assessment is accredited by School of International Education.

7. Degree Thesis

Master Program (for International Students) in Materials Science and Engineering

The Discipline of Materials Science and Engineering studies the composition, structure, preparation process, properties and applications of materials. The research objects include the theory, design, preparation, testing and application of electrical, magnetic, acoustic, optical, thermal, mechanical and biological functional materials. The research process involves the acquisition, transformation, storage, processing and control of materials information. UESTC is the first batch selected into the national project of First-class Universities and Disciplines of the World. Research and development of electronic information materials and application are characteristics and advantages of UESTC. The discipline of Materials Science and Engineering has strong academic faculties, which include doctoral supervisor, professors, associate professors, and a number of Ph.D talents, advanced experimental facilities and plenty of research funds.

With the development of science and technology, the discipline of Materials Science and Engineering has become more and more closely interdisciplinary with other disciplines. At the same time, as an important pillar of modern civilization, the discipline has become the forerunner and foundation of the development of modern science and technology, and has a very close relationship with the development of contemporary society.

1.Objectives

Masters of the discipline are expected to have a rather profound knowledge of the cutting-edge research and trend of the field and a relatively sound grasp of the theoretical and systematic expertise, as are able to master corresponding experimental skills, to be proficient in the use of computers, familiar at least with one simulation software closely related to this discipline, able to contribute academic papers and exchange views in conferences, and to demonstrate rigorous spirits in scientific approaches and working style and professional ethics, so as to be competent in research, development, teaching or management jobs at research institutes and universities.

2. Orientations

- 1)Electronic Information Materials and Devices
- 2) Materials Gene Project
- 3) Electronic Film and Integrated Devices
- 4) New Energy Materials and Devices
- 5)Printed Circuits and Printed Electronic Technology

6)Organic Functional Materials and Engineering

3. Duration

The supervisor responsibility mechanism is adopted in the education for international master candidates. The supervisor is responsible for the student's making of personal study plan, the choice of courses, and the completion of the degree thesis. The personal study plan cannot be changed without permission of the supervisor.

During the course work, according to specifications by the discipline, the student is to pass examinations held for the degree courses and examinations or assessments held for the other optional courses. Of all the degree courses, common core courses are compulsory. Master candidates are allowed to choose 1~2 inter-disciplinary core courses as their degree courses under supervisors' guidance. International students of Chinese language abilities can apply to take courses given in Chinese to local full-time graduate students and acquire corresponding credits if pass.

Those who fail to meet the requirements as described above can fill up the gap by repetition or make-up in the limit of one year. Those who fail to meet the credit requirements even till the end of the due time are to be terminated.

The duration set for master candidates is 2 years full-time. An extension can be applied for by those who cannot finish their courses in time owing to objective causes, yet altogether 4 years is the last due.

4. Progression and Requirements

The minimum sum total credits for international students of master candidates are 26. Master candidates should complete the course work of no less than a total of 24 credits (out of which at least 15 credits should be acquired from degree courses), compulsory sections of no less than 2 credits, complete the thesis (or a research report) independently, and pass the degree thesis defense. A Survey of China and Comprehensive Chinese are compulsory for international postgraduates, who are required to pass the HSK 3 or equivalent Chinese language test by graduation.

Course (Categories	Course Number	Course Name	Class Hours	Credits	Semester	Notes
	Common Core Course	6900005001	Comprehensive Chinese	60	2	1	Commulatory
Degree		6900005002	A Survey of China	40	2	2	Compulsory
	Major Core Course	1100016001	Stochastic Processes and Applications	60	3	1	At least 1
Courses		1100016004	Matrix Theory	60	3	1	from 3
		1107016005	Numerical Analysis	60	3	1/2	
		0208096101	IC Design	40	2	2	

Degree	Major Core	0208096106	Advanced Electromagnetic Field Theory	60	3	1	
Courses	Course	0208096107	Microwave Engineering	40	2	2	
		0108107028	Radar Theory	30	1.5	2	
		0208096104	RF IC Design	40	2	2	
		0208097010	Flexible MEMS Technology and Integration	40	2	2	
		0208097019	Advanced Digital Integrated Circuits Design	40	2	2	
Non-degree	Elective Major Course	0208097020	Principles of VLSI Circuit Simulation and Design Automation	40	2	1	
Optional Courses		0308057010	Material design and calculation	30	1.5	2	
Courses		0308057016	Optoelectronic Conversion from Fundamental to Devices	20	1	2	
		0308057024	Frontiers of Physical and Chemical Power Sources	40	2	1	
		0308177009	Laboratory safety and fire safety	20	1	1	
	Other Elective Course	6900005003	Chinese Reading & Writing	60	2	2	
	•	6400006003	Academic Activities	0	1	1,2	
Compulsory Section		XX00025XXX	Elective Competence Development Courses	0	1	1,2	Compulsory
		6900006001	Chinese Proficiency Assessment	60	0	1,2	

6. Compulsory Sections

The compulsory sections for international students of master candidates include three parts, a candidate is required to complete the following aspects:

- 1)Elective Competence Development Courses: through introducing the academic cutting edge knowledge, culture, arts and sports, etc, such courses are given to improve the master candidates' comprehensive competence. A candidate should take at least one course and get one credit after assessment.
- 2) Academic Activities: to enliven academic atmosphere and to further and broaden master candidates' scope of knowledge, one should attend at least five academic lectures within and out of UESTC, and fill in the Academic Activities Registration Form and get the official stamp upon attendance. One credit can be granted to the candidate when he/she succeeds in completing the above procedures.
- 3)Chinese Proficiency Assessment: The Ministry of Education requires international graduates' Chinese language ability of to reach the level 3 based on the International Chinese Proficiency Standards at the time of graduation. Master's students are required to undergo a Chinese assessment level 3 during their stay at the university, and those who meet the requirements are eligible to apply for their graduation

defense. Chinese Proficiency Assessment is accredited by School of International Education.

7.Degree Thesis

All degree thesis problems shall refer to UESTC Regulations for Postgraduate Degree Conferring. For Int'l students, the language used in the defense should be English.

Master Program (for International Students) in Electrical Engineering

Electrical Engineering is an engineering discipline related to the research and application of electricity, electronics, and electromagnetics. It includes electricity, electronics, circuits, control and communications. It is an indispensable key discipline in today's high tech fields. For nearly forty years, under the integrated and cross functional roles of information and communication engineering, control science and engineering, it has become one of the core disciplines in modern science and technology. UESTC conforms to the national energy development strategy and relies on the comprehensive advantages of electronic information, including the wide area measurement and control of power systems, smart grids, power electronics and power transmission, and new types of power generation and energy storage. As a special feature, it has achieved a large number of high level scientific research achievements and laid a good foundation for cultivating high caliber, multi functional, and international high end electrical engineering talents.

1.Objectives

The discipline is positioned to cultivate in the field of electrical engineering, especially in power and control, circuits and systems, power information and communications, with solid basic theory and system expertise, master of electrical engineering and computer applications high-tech talent. Master degree holders should understand the academic status and direction of development in the relevant research areas in China and abroad, have the ability to independently analyze and solve specific technical problems in the subject, have a good international perspective and international communication skills. Students would also be proficient in Chinese. With rigorous and realistic scientific attitude and style of work, courage to innovate and pioneering consciousness and good professional qualities, the students can be competent in related research, teaching, engineering technology development and management in the field of electrical engineering.

A Survey of China and Comprehensive Chinese are compulsory for international postgraduates, who are required to pass the HSK 3 or equivalent Chinese language test by graduation.

2.Orientations

- 1) Power System Analysis and Control
- 2) Power Transformation and Active Distribution Network
- 3) Advanced Transmission and Conversion Technology
- 4) Intelligent Monitoring and Diagnosis of Electrical Equipment
- 5) Motor System and Control

6) Power and Energy Economy

3. Duration

The duration set for master candidates is 2 years full-time. An extension can be applied for by those who cannot finish their courses in time owing to objective causes, yet altogether 4 years is the last due.

4. Progression and Requirements

The minimum sum total credits for international students of master candidates are 26. Master candidates should complete the course work of no less than a total of 24 credits (out of which at least 15 credits should be acquired from degree courses), compulsory sections of no less than 2 credits, complete the thesis (or a research report) independently, and pass the degree thesis defense.

The supervisor responsibility mechanism is adopted in the education for international master candidates. The supervisor is responsible for the student's making of personal study plan, the choice of courses, and the completion of the research report or the degree thesis. The personal study plan cannot be changed without permission of the supervisor.

During the course work, according to specifications by the discipline, the student is to pass examinations held for the degree courses and examinations or assessments held for the other optional courses. Of all the degree courses, common core courses are compulsory; at least one in core courses should be taken. Master candidates are allowed to choose 1~2 Inter-disciplinary core courses as their degree courses under supervisors' guidance. International students of Chinese language abilities can apply to take courses given in Chinese to local full-time graduate students and acquire corresponding credits if pass.

Those who fail to meet the requirements as described above can fill up the gap by repetition or make-up in the limit of one year. Those who fail to meet the credit requirements even till the end of the due time are to be terminated.

Course (Categories	Course Number	Course Name	Class Hours	Credits	Semester	Notes
	Common	6900005001	Comprehensive Chinese	60	2	1	Cammulaam
	Core Course	6900005002	A Survey of China	40	2	2	Compulsory
	Major Core Course	1100016001	Stochastic Processes and Applications	60	3	1	At least 1
Degree Courses		1100016004	Matrix Theory	60	3	1	from 3
Courses		1107016005	Numerical Analysis	60	3	1/2	
		0408086008	Power System Operation and Control	40	2	2	
		0408086009	Power Electronics	40	2	1	

Degree	Major Core	0808126020	Embedded Operating System and Application	40	2	2	
Courses	Course	1107016004	Optimization Methods and Applications	50	2.5	1	
		0108106007	Signal Detection and Estimation	40	2	1	
	Elective	0408027013	Reliability Design	40	2	2	
Non-degree Optional	Major Course	0408087012	Renewable Energy Generation and Integration	40	2	2	
Courses		0408087014	Electricity Market	40	2	1	
Courses	Other Elective Course	6900005003	Chinese Reading & Writing	60	2	2	
		6400006003	Academic Activities	0	1	1,2	
Compulso	ory Section	6900006001	Chinese Proficiency Assessment	60	0	1,2	Compulsory
Compulsory Section		XX00025XXX	Elective Competence Development Courses	0	1	1,2	Compuisory

6. Compulsory Sections

The compulsory sections for international students of master candidates include three parts, a candidate is required to complete the following aspects:

- 1)Elective Competence Development Courses: through introducing the academic cutting edge knowledge, culture, arts and sports, etc, such courses are given to improve the master candidates' comprehensive competence. A candidate should take at least one course and get one credit after assessment.
- 2) Academic Activities: to enliven academic atmosphere and to further and broaden master candidates' scope of knowledge, one should attend at least five academic lectures within and out of UESTC, and fill in the Academic Activities Registration Form and get the official stamp upon attendance. One credit can be granted to the candidate when he/she succeeds in completing the above procedures.
- 3) Chinese Proficiency Assessment: The Ministry of Education requires the Chinese language ability of international graduates' to reach the level 3 based on the International Chinese Proficiency Standards at the time of graduation. Master's/doctoral students are required to undergo a Chinese assessment level 3 during their stay at the university, and those who meet the requirements are eligible to apply for their graduation defense. Chinese Proficiency Assessment is accredited by School of International Education.

7. Degree Thesis

Master Program (for International Students) in Electronic Science and Technology

The Discipline of Electronic Science and Technology, which has been selected into the national project of First-class Universities and Disciplines of the World, is one of the national key disciplines of China. It consists of 5 second disciplines including electromagnetic field and microwave technology, microelectronics and solid state electronics, circuits and systems, electronic information materials and devices and electronic information materials and components. In pursuing the advanced level of scientific research, those disciplines all have very strong research capabilities and extensive academic impact.

1.Objectives

Masters of the discipline are expected to have a rather profound knowledge of the cutting-edge research and trend of the field and a relatively sound grasp of the theoretical and systematic expertise, as are able to master corresponding experimental skills, to be proficient in the use of computers, familiar at least with one simulation software closely related to this discipline, able to contribute academic papers and exchange views in conferences, and to demonstrate rigorous spirits in scientific approaches and working style and professional ethics, so as to be competent in research, development, teaching or management jobs at research institutes and universities.

A Survey of China and Comprehensive Chinese are compulsory for international postgraduates, who are required to pass the HSK 3 or equivalent Chinese language test by graduation.

2. Orientations

- 1)Electromagnetic Field and Microwave Technology
- 2)Integrated Circuits and Systems
- 3) Electronic Information Materials and Devices
- 4) Microelectronics and Solid Electronics
- 5)Physical electronics

3.Duration

The duration set for master candidates is 2 years full-time. An extension can be applied for by those who cannot finish their courses in time owing to objective causes, yet altogether 4 years is the last due.

4. Progression and Requirements

The minimum sum total credits for international students of master candidates are 26. Master candidates should complete the course work of no less than a total of 24 credits (out of which at least 15 credits should be acquired from degree courses), compulsory sections of no less than 2 credits, complete

the thesis (or a research report) independently, and pass the degree thesis defense.

The supervisor responsibility mechanism is adopted in the education for international master candidates. The supervisor is responsible for the student's making of personal study plan, the choice of courses, and the completion of the research report or the degree thesis. The personal study plan cannot be changed without permission of the supervisor.

During the course work, according to specifications by the discipline, the student is to pass examinations held for the degree courses and examinations or assessments held for the other optional courses. Of all the degree courses, common core courses are compulsory; at least one in core courses should be taken. Master candidates are allowed to choose 1~2 inter-disciplinary core courses as their degree courses under supervisors' guidance. International students of Chinese language abilities can apply to take courses given in Chinese to local full-time graduate students and acquire corresponding credits if pass.

Those who fail to meet the requirements as described above can fill up the gap by repetition or make-up in the limit of one year. Those who fail to meet the credit requirements even till the end of the due time are to be terminated.

Course (Course Categories		Course Name	Class Hours	Credits	Semester	Notes
	Common	6900005001	Comprehensive Chinese	60	2	1	Comm. Inc.
	Core Course	6900005002	A Survey of China	40	2	2	Compulsory
		1100016001	Stochastic Processes and Applications	60	3	1	At least 1
Degree		1100016004	Matrix Theory	60	3	1	from 3
Courses	Major Core	1107016005	Numerical Analysis	60	3	1/2	
	Course	0208096101	IC Design	40	2	2	
		0208096106	Advanced Electromagnetic Field Theory	60	3	1	
		0208096107	Microwave Engineering	40	2	2	
		0108106007	Signal Detection and Estimation	40	2	1	
		0108107028	Radar Theory	30	1.5	2	
		0208096103	Co-Design of Hardware and Software	40	2	2	
Non-degree	Elective	0208096104	RF IC Design	40	2	2	
Optional Courses	Major Course	0208096109	Surface and Bulk Acoustic Wave Devices for Telecommunications	40	2	2	
		0208097010	Flexible MEMS Technology and Integration	40	2	2	
		0208097019	Advanced Digital Integrated Circuits Design	40	2	2	

Non-degree	Other						
Optional	Elective	6900005003	Chinese Reading & Writing	60	2	2	
Courses	Course						
·		6400006003	Academic Activities	0	1	1,2	
Compulso	Compulsory Section		Chinese Proficiency Assessment	60	0	1,2	Compulsory
Compaisory Section		XX00025XXX	Elective Competence	0	1	1.2	Compulsory
		AAUUU23AAA	Development Courses	U	1	1,2	

6. Compulsory Sections

The compulsory sections for international students of master candidates include three parts, a candidate is required to complete the following aspects:

1)Elective Competence Development Courses: through introducing the academic cutting edge knowledge, culture, arts and sports, etc, such courses are given to improve the master candidates' comprehensive competence. A candidate should take at least one course and get one credit after assessment.

2)Academic Activities: to enliven academic atmosphere and to further and broaden master candidates' scope of knowledge, one should attend at least five academic lectures within and out of UESTC, and fill in the Academic Activities Registration Form and get the official stamp upon attendance. One credit can be granted to the candidate when he/she succeeds in completing the above procedures.

3)Chinese Proficiency Assessment: The Ministry of Education requires the Chinese language ability of international graduates' to reach the level 3 based on the International Chinese Proficiency Standards at the time of graduation. Master's/doctoral students are required to undergo a Chinese assessment level 3 during their stay at the university, and those who meet the requirements are eligible to apply for their graduation defense. Chinese Proficiency Assessment is accredited by School of International Education.

7. Degree Thesis

Master Program (for International Students) in Information and Communication Engineering

Information and Communication Engineering of UESTC is the national key discipline, which constituted by 2 sub-disciplines, Communication and Information System, Signal and Information Processing. The disciplines related to Information and Communication Engineering of UESTC are the first batch of disciplines which were authorized to confer doctoral degree and to establish postdoctoral position, and also the first batch of Project 211, Project 985, Double First-Class key disciplines. The discipline was ranked as 2nd in National Discipline Evaluation from Ministry of Education in 2012 and was accredited as A+ in the fourth round of National Discipline Evaluation from Ministry of Education in 2017. The school has 2 academicians of Chinese Academy of Engineering, 8 awardees of National Thousand Talents Program, 2 National Renowned Professors, 5 awardees of Cheung Kong Scholars Program, 2 awardees of National Natural Science Foundation for Distinguished Young Scholars, 9 awardees of Thousand Talent Program for Young Outstanding Scientists and 1 awardees of National Youth Top-notch Talent Support Program. The research team of this discipline enjoys a good reputation both at home and abroad. The discipline has many international first-class academic research and talents cultivation platforms such as National key laboratories, Ministry key laboratories and Overseas Expertise Introduction Project for Discipline Innovation.

The research fields of this discipline are closely related with those of Electronics Science and Technology, Computer Science and Technology, Control Science and Engineering, Instruments Science and Technology.

1. Objectives

Masters of the discipline are expected to have a rather profound knowledge of the cutting-edge research and trend of the field and a relatively sound grasp of the theoretical and systematic expertise, as are able to master corresponding experimental skills, to be proficient in the use of computers, familiar with at least one simulation software closely related to this discipline, to know the new technology and development trend in a certain field of information and communication engineering at home and abroad and to solve the academic or technical issues innovatively, able to contribute academic papers and exchange views in conferences, and to demonstrate rigorous spirits in scientific approaches and working style and professional ethics, so as to be competent in research, development, teaching or management jobs at research institutes and universities.

A Survey of China and Comprehensive Chinese are compulsory for international postgraduates, who are required to pass the HSK 3 or equivalent Chinese language test by graduation.

2. Orientations

- 1) Wireless and Mobile Communication System
- 2) Anti-jamming and Secure Communication System
- 3) Radar Detection and Imaging Recognition
- 4) Intelligent Communication Network and Information Processing
- 5) Optical Fiber Sensing and Communication
- 6) Image and Video Processing
- 7) Communication Integrated Circuit and System
- 8) Intelligent Perception and Information System
- 9) Machine Learning and Artificial Intelligence
- 10) Signal and Information Intelligent Processing

3. Duration

The supervisor responsibility mechanism is adopted in the education for international master candidates. The supervisor is responsible for the student's making of personal study plan, the choice of courses, and the completion of the research report or the degree thesis.

The duration set for master candidates is 2 years full-time. An extension can be applied for by those who cannot finish their courses in time owing to objective causes, yet altogether 4 years is the last due.

4. Progression and Requirements

The minimum sum total credits for international students of master candidates are 26. Master candidates should complete the course work of no less than a total of 24 credits (out of which at least 15 credits should be acquired from degree courses), compulsory sections of no less than 2 credits, complete the thesis independently, and pass the degree thesis defense. During the course work, according to specifications by the discipline, the student is to pass examinations held for the degree courses and examinations or assessments held for the other optional courses. Of all the degree courses, common core courses are compulsory. Master candidates are allowed to choose 1~2 inter-disciplinary core courses as their degree courses under supervisors' guidance. International students of Chinese language abilities can apply to take courses given in Chinese to local full-time graduate students and acquire corresponding credits if pass.

Those who fail to meet the requirements as described above can fill up the gap by repetition or make-up in the limit of one year. Those who fail to meet the credit requirements even till the end of the due time are to be terminated.

Course (Categories	Course Number	Course Name	Class Hours	Credits	Semester	Notes
	Common	6900005001	Comprehensive Chinese	60	2	1	Commileoni
	Core Course	6900005002	A Survey of China	40	2	2	Compulsory
		1100016001	Stochastic Processes and Applications	60	3	1	At least 1
		1100016004	Matrix Theory	60	3	1	from 3
		1107016005	Numerical Analysis	60	3	1/2	
Degree Courses	Major Core	0108106001	Optimization Theory and Applications	50	2.5	1	
	Course	0108106013	Digital Communications	40	2	2	
		0108106014	Digital Signal Processing	40	2	1	
		0108106020	Fiber Optical Communication	30	1.5	2	
		0208096101	IC Design	40	2	2	
		0808126022	Network and Information Security	60	3	1	
		0108106007	Signal Detection and Estimation	40	2	1	
		0108107013	Fuzzy logic	40	2	2	
		0108107026	Optical Fiber Technology	40	2	1	
	Elective	0108107027	Computational Intelligence Methods and Application	30	1.5	2	
		0108107028	Radar Theory	30	1.5	2	
Non-degree Optional	Major Course	0108107032	Applied Matrix Methods for Signal Processing & Data Analysis	40	2	2	
Courses		0808127024	Internet Programming Design	40	2	2	
		0808127031	Mathematical Fundamental of Information Security	50	2.5	1	
		1008256008	Theories and Methods of Systems Engineering	40	2	1	
	Other						
	Elective Course	6900005003	Chinese Reading & Writing	60	2	2	
	l	6400006003	Academic Activities	0	1	1,2	
		6900006001	Chinese Proficiency Assessment	60	0	1,2	
Compulsory Section		XX00025XXX	Elective Competence Development Courses	0	1	1,2	Compulsory

6.Compulsory Sections

The compulsory sections for international students of master candidates include three parts. A candidate is required to complete the following aspects:

- 1) Elective Competence Development Courses: through introducing the academic cutting edge knowledge, culture and arts, etc, such courses are given to improve the master candidates' comprehensive competence. A candidate should take at least one course and get one credit after assessment.
- 2) Academic Activities: to enliven academic atmosphere and to further and broaden master candidates' scope of knowledge, one should attend at least five academic lectures within and out of UESTC, and fill in the Academic Activities Registration Form and get the official stamp upon attendance. One credit can be granted to the candidate when he/she succeeds in completing the above procedures.
- 3) Chinese Proficiency Assessment: The Ministry of Education requires the Chinese language ability of international graduates to reach the level 3 based on the International Chinese Proficiency Standards at the time of graduation. Master's/doctoral students are required to undergo a Chinese assessment level 3 during their stay at the university, and those who meet the requirements are eligible to apply for their graduation defense. Chinese Proficiency Assessment is accredited by School of International Education.

7. Degree Thesis

As for problems regarding the degree thesis defense, from its application, evaluation and holding to the final award of the degree, all shall refer to UESTC Regulations for Postgraduate Degree Conferring.

Master Program (for International Students) in Control Science and Engineering

Control Science and Engineering a discipline related to research of control theory, method, technology and engineering application. Based on control theory, system theory and information theory, control science deals with mutual problems in various application areas, which are building system model, analyzing its inner and outer information, adopting control methods. The program has an obvious characteristics in combination of theory research and engineering application, disciplinary crossing and integration, civil-military integration technology, and plays an indispensable role in national economy development and national security.

This program is a key discipline in Sichuan Province with abundant teaching resources. After many years' development, the program has been expanded into several research areas including complex system control and optimization, new energy system control technology, computer vision and pattern recognition, robot technology and system, etc.. The development of this program brings great benefits to the society and country, and makes outstanding contribution to national defense, social service, talent training and so on.

1.Objectives

Abide by the laws and have good moral character. Master solid basic theories and knowledge. Able to communicate in Chinese. Able to engage in research, teaching, and independent technical job.

2. Orientations

- 1)Complex System and Intelligent Information Processing
- 2)New Energy System Control Technology
- 3)Pattern Recognition and Intelligent System
- 4) Measurement and Control Communication and Navigation Control
- 5) Detection Technology and Automation Device

3. Duration

The duration set for master candidates is 2 years full-time. An extension can be applied for by those who cannot finish their courses in time owing to objective causes, yet altogether 4 years is the last due.

4. Progression and Requirements

The minimum sum total credits for international students of master candidates are 26. Master candidates should complete the course work of no less than a total of 24 credits (out of which at least 15 credits should be acquired from degree courses), compulsory sections of no less than 2 credits, complete the thesis (or a research report) independently, and pass the degree thesis defense.

The supervisor responsibility mechanism is adopted in the education for international master candidates. The supervisor is responsible for the student's making of personal study plan, the choice of courses, and the completion of the research report or the degree thesis. The personal study plan cannot be changed without permission of the supervisor.

During the course work, according to specifications by the discipline, the student is to pass examinations held for the degree courses and examinations or assessments held for the other optional courses. Of all the degree courses, common core courses are compulsory. Master candidates are allowed to choose 1~2 inter-disciplinary core courses as their degree courses under supervisors' guidance. International students of Chinese language abilities can apply to take courses given in Chinese to local full-time graduate students and acquire corresponding credits if pass.

A Survey of China and Comprehensive Chinese are compulsory for international postgraduates, who are required to pass the HSK 3 or equivalent Chinese language test by graduation.

Those who fail to meet the requirements as described above can fill up the gap by repetition or make-up in the limit of one year. Those who fail to meet the credit requirements even till the end of the due time are to be terminated.

Course C	ategories	Course Number	Course Name	Class Hours	Credits	Semester	Notes
	Common	6900005001	Comprehensive Chinese	60	2	1	
	Core Course	6900005002	A Survey of China	40	2	2	Compulsory
Degree		1100016001	Stochastic Processes and Applications	60	3	1	At least 1
Courses	Maine	1100016004	Matrix Theory	60	3	1	from 3
	Major Core Course	1107016005	Numerical Analysis	60	3	1/2	
		0108106014	Digital Signal Processing	40	2	1	
		0608116010	Computer Vision	40	2	1	
		0608116011	Linear System Theory	50	2.5	1	
	Elective Major Course	0108106007	Signal Detection and Estimation	40	2	1	
		0208096104	RF IC Design	40	2	2	
Non-degree Optional Courses		0208097020	Principles of VLSI Circuit Simulation and Design Automation	40	2	1	
		0608117003	Performance Evaluation and Optimization for Complex Systems	20	1	2	
		0808126020	Embedded Operating System and Application	40	2	2	

Non-degree	Elective Major Course	1008256008	Theories and Methods of Systems Engineering	40	2	1	
Optional	Other	6900005003	Chinese Reading & Writing	60	2	2	
Courses	Elective Course	XX0004XXXX	High-Level International Courses	/	/	1/2	
		6400006003	Academic Activities	0	1	1,2	
		6400006004	Research Proposal and Literature Review of the Dissertation	0	0	1,2	
Compulsor	ry Section	6400007006	Mid term evaluation	0	0	1,2	Compulsory
		6900006001	Chinese Proficiency Assessment	60	0	1,2	
		XX00025XXX	Elective Competence Development Courses	0	1	1,2	

6. Compulsory Sections

The compulsory sections for international students of master candidates include five parts, a candidate is required to complete the following aspects:

- 1)Elective Competence Development Courses: through introducing the academic cutting edge knowledge, culture, arts and sports, etc, such courses are given to improve the master candidates' comprehensive competence. A candidate should take at least one course and get one credit after assessment.
- 2) Academic Activities: to enliven academic atmosphere and to further and broaden master candidates' scope of knowledge, one should attend at least five academic lectures within and out of UESTC, and fill in the Academic Activities Registration Form and get the official stamp upon attendance. One credit can be granted to the candidate when he/she succeeds in completing the above procedures.
- 3)Chinese Proficiency Assessment: The Ministry of Education requires the Chinese language ability of international graduates' to reach the level 3 based on the International Chinese Proficiency Standards at the time of graduation. Master's/doctoral students are required to undergo a Chinese assessment level 3 during their stay at the university, and those who meet the requirements are eligible to apply for their graduation defense. Chinese Proficiency Assessment is accredited by School of International Education.
- 4)The Research Proposal Report and Literature Review of Dissertation (hereinafter as RPRLRD): before making the Research Proposal Report for the dissertation, all candidates should read more than 30 papers in the leading edge of their discipline from the latest literature. Then everyone should finish a literature review report of about 4,000 words as well as the corresponding Research Proposal Report.
- 5)Mid-term Report on Thesis Work: All candidates are obliged to provide written progress reports on their dissertations six months after they begin. These reports will be evaluated and approved by experts before the candidates can move further with their dissertations.

7. Degree Thesis

Master Program (for International Students) in Computer Science and Technology

With its postdoctoral research station set up as early as in 1999, the discipline enjoys a rather strong comprehensive advantages and has demonstrated great competence in fundamental and applied researches. With its substantially enhanced research abilities, the discipline is drawing close to the national first level as a whole with part of its achievements coming up as the most advanced in the country. Altogether, cheerful results have been achieved in aspects of discipline orientations, academic teams, discipline platform constructions, scientific researches, cultivation of talents and academic exchanges.

1.Objectives

Masters of the discipline are expected to have a sound grasp of the fundamental theories and systematic expertise, and a thorough knowledge of the trend of the field. As masters of modern experimental approaches and skills of the field, they are enabled to carry out scientific researches or undertake engineering practices in their orientations. On graduation, they are competent in scientific researches related to the computer field, in software developments and analysis of computer application system, and in computer teaching work.

Masters of the discipline are also expected to have a basic knowledge of Chinese history and culture, be capable of reading Chinese scientific literatures in simple Chinese, and communicating with basic skills in the Chinese language. A Survey of China and Comprehensive Chinese are compulsory for international postgraduates, who are required to pass the HSK 3 or equivalent Chinese language test by graduation.

2.Orientations

- 1)Information Security
- 2)Digital Media Technology
- 3)Embedded System
- 4)Computer Networks
- 5)Artificial Intelligence
- 6)Cloud Computing

3.Duration

The duration set for master candidates is 2 years full-time. An extension can be applied for by those who cannot finish their courses in time owing to objective causes, yet altogether 4 years is the last due.

4. Progression and Requirements

The minimum sum total credits for international students of master candidates are 26. Master

candidates should complete the course work of no less than a total of 24 credits (out of which at least 15 credits should be acquired from degree courses), compulsory sections of no less than 2 credits, complete the thesis (or a research report) independently, and pass the degree thesis defense.

The supervisor responsibility mechanism is adopted in the education for international master candidates. The supervisor is responsible for the student's making of personal study plan, the choice of courses, and the completion of the research report or the degree thesis. The personal study plan cannot be changed without permission of the supervisor.

During the course work, according to specifications by the discipline, the student is to pass examinations held for the degree courses and examinations or assessments held for the other optional courses. Of all the degree courses, common core courses are compulsory; at least one in core courses should be taken. Master candidates are allowed to choose 1~2 inter-disciplinary core courses as their degree courses under supervisors' guidance. Degree courses can be taken to substitute non-degree courses, but not vice versa. International students of Chinese language abilities can apply to take courses given in Chinese to local full-time graduate students and acquire corresponding credits if pass.

Those who fail to meet the requirements as described above can fill up the gap by repetition or make-up in the limit of one year. Those who fail to meet the credit requirements even till the end of the due time are to be terminated.

Course	Categories	Course Number	Course Name	Class Hours	Credits	Semester	Notes
	Common	6900005001	Comprehensive Chinese	60	2	1	Commulació
	Core Course	6900005002	A Survey of China	40	2	2	Compulsory
		1100016001	Stochastic Processes and Applications	60	3	1	At least 1
		1100016004	Matrix Theory	60	3	1	from 3
		1107016005	Numerical Analysis	60	3	1/2	
	Major Core Course	0808126007	Big Data Analysis and Mining	40	2	2	
		0808126019	Mobile Computing	40	2	2	
Degree Courses		0808126020	Embedded Operating System and Application	40	2	2	
		0808126021	The Design of Cryptographic Algorithm	40	2	2	
		0808126022	Network and Information Security	60	3	1	
		0808126023	Software Development Technology	40	2	1	
		0808126024	Multimedia Technology and Applications	40	2	1	

		0808127005	Cloud Computing	20	1	1	
		0808127020	Foundation of Cryptography	40	2	2	
		0808127024	Internet Programming Design	40	2	2	
		0808127025	Database Technique	40	2	2	
		0808127027	Computer Graphics	40	2	2	
	Elective Major	0808127030	Operating System: Structure and Applications	40	2	2	
Non-degree Optional	Course	0808127031	Mathematical Fundamental of Information Security	50	2.5	1	
Courses		0808127032	Object Oriented Technology	30	1.5	1	
		0808127043	Advanced Network Computing	20	1	1	
		0808127055	Frontiers in Algorithms	20	1	2	
		0808397009	Data Recovery and Digital Forensics	20	1	1	
	Other	6900005003	Chinese Reading & Writing	60	2	2	
	Elective Course	XX0004XXXX	High-Level International Courses	/	/	1/2	
		6400006003	Academic Activities	0	1	1,2	
Compulso	ry Section	6900006001	Chinese Proficiency Assessment	60	0	1,2	Compulsory
Compulsory Section		XX00025XXX	Elective Competence Development Courses	0	1	1,2	Compaisory

6. Compulsory Sections

The compulsory sections for international students of master candidates include three parts, a candidate is required to complete the following aspects:

1)Elective Competence Development Courses: through introducing the academic cutting edge knowledge, culture, arts and sports, etc, such courses are given to improve the master candidates' comprehensive competence. A candidate should take at least one course and get one credit after assessment.

2)Academic Activities: to enliven academic atmosphere and to further and broaden master candidates' scope of knowledge, one should attend at least five academic lectures within and out of UESTC, and fill in the Academic Activities Registration Form and get the official stamp upon attendance. One credit can be granted to the candidate when he/she succeeds in completing the above procedures.

3)Chinese Proficiency Assessment: The Ministry of Education requires the Chinese language ability of international graduates' to reach the level 3 based on the International Chinese Proficiency Standards at the time of graduation. Master's/doctoral students are required to undergo a Chinese assessment level 3 during their stay at the university, and those who meet the requirements are eligible to apply for their graduation defense. Chinese Proficiency Assessment is accredited by School of International Education.

7. Degree Thesis

Master Program (for International Students) in Biomedical Engineering

Biomedical Engineering (BME) is an inter-disciplinary field involving the subject of Life Science, Cognitive Science and Information Science. BME in UESTC started from the year of 1986. During the discipline evaluation organized by Ministry of Education in the year of 2017, BME in UESTC ranks B+ among the BME disciplines of all the main universities in China. There are 40+ full and associate professors in BME of UESTC, including academician of Chinese academy of sciences, AIMBE Fellow, IET Fellow, etc. and 6 full-time foreign professors. The current experimental conditions include the Key Laboratory of Neuroinformation of Ministry of Education, and other Sichuan Province supported Key Laboratories, which are equipped with 3.0T MR, EGI and NeuroScan EEG workstations, etc. Altogether, rich outcomes have been achieved in the areas of brain imaging techniques and applications, visual electrophysiology and computational modeling, biomedical signal processing, medical imaging and processing, system biology, plant molecular genetics, nanomedicine, etc.

1.Objectives

Masters of the discipline are expected to have a rather profound knowledge of the cutting-edge research and trend of the field and a relatively sound grasp of the theoretical and systematic expertise in computer, human anatomy and physiology, and biomedical signal processing. Masters of the discipline are able to contribute academic papers and exchange views in conferences, and to demonstrate rigorous spirits in scientific approaches and working style and professional ethics, so as to be competent in research, development, teaching or management jobs at research institutes and universities in the areas of biomedical signal collection and processing, biomedical instruments.

A Survey of China and Comprehensive Chinese are compulsory for international postgraduates, who are required to pass the HSK 3 or equivalent Chinese language test by graduation.

2.Orientations

- 1) Brain Functions and Neural Information Engineering (EEG and fMRI Data Processing, Neural Electrophysiology, Brain-Computer Interface, Brain-inspired Intelligence, etc)
 - 2) Medical Instruments, Medical Image and Signal Processing
 - 3) Bioinformatics
 - 4) Neurobiology
 - 5) Cell Biology
 - 6) Biochemistry and Molecular Neurobiology

3. Duration

The duration set for master candidates is 2 years full-time. An extension can be applied for by those who cannot finish their courses in time owing to objective causes, yet altogether 4 years is the last due.

4. Progression and Requirements

The minimum sum total credits for international students of master candidates are 26. Master candidates should complete the course work of no less than a total of 24 credits (out of which at least 15 credits should be acquired from degree courses), compulsory sections of no less than 2 credits, complete the thesis (or a research report) independently, and pass the degree thesis defense.

The supervisor responsibility mechanism is adopted in the education for international master candidates. The supervisor is responsible for the student's making of personal study plan, the choice of courses, and the completion of the research report or the degree thesis. The personal study plan cannot be changed without permission of the supervisor.

During the course work, according to specifications by the discipline, the student is to pass examinations held for the degree courses and examinations or assessments held for the other optional courses. Of all the degree courses, common core courses are compulsory; at least one in core courses should be taken. Master candidates are allowed to choose 1~2 inter-disciplinary core courses as their degree courses under supervisors' guidance. International students of Chinese language abilities can apply to take courses given in Chinese to local full-time graduate students and acquire corresponding credits if pass.

Those who fail to meet the requirements as described above can fill up the gap by repetition or make-up in the limit of one year. Those who fail to meet the credit requirements even till the end of the due time are to be terminated.

Course	Categories	Course Number	Course Name	Class Hours	Credits	Semester	Notes
	Common	6900005001	Comprehensive Chinese	60	2	1	Committee
	Core Course	6900005002	A Survey of China	40	2	2	Compulsory
	Core Course	1100016001	Stochastic Processes and Applications	60	3	1	At least 1
		1100016004	Matrix Theory	60	3	1	from 3
Degree		1107016005	Numerical Analysis	60	3	1/2	
Courses		1404026004	Cognitive neuroscience	40	2	1	
		1407106009	Advanced Molecular Biology	40	2	1	
	Major Core Course	1407106010	Bioinformatics	40	2	1	
		1408316004	Fundamentals of Brain Science	40	2	2	
		1408316006	Biomedical Statistics	40	2	2	

		0108106013	Digital Communications	40	2	2	
		0108106014	Digital Signal Processing	40	2	1	
	Elective	0208096101	IC Design	40	2	2	
Non-degree	Major Course	0808126023	Software Development Technology	40	2	1	
Optional Courses		1404026006	Psychophysical Experiments	40	2	2	
Courses		1408316005	Advances in Brain Imaging	40	2	2	
	Other	6900005003	Chinese Reading & Writing	60	2	2	
	Elective Course	XX0004XXXX	High-Level International Courses	/	/	1/2	
		6400006003	Academic Activities	0	1	1,2	
Compulsory Section		XX00025XXX	Elective Competence Development Courses	0	1	1,2	Compulsory
		6900006001	Chinese Proficiency Assessment	60	0	1,2	

Directions: All courses, except for the Chinese ones specified by the requirements, are totally given in English.

6. Compulsory Sections

The compulsory sections for international students of master candidates include three parts, a candidate is required to complete the following aspects:

1)Elective Competence Development Courses: through introducing the academic cutting edge knowledge, culture, arts and sports, etc, such courses are given to improve the master candidates' comprehensive competence. A candidate should take at least one course and get one credit after assessment.

2)Academic Activities: to enliven academic atmosphere and to further and broaden master candidates' scope of knowledge, one should attend at least five academic lectures within and out of UESTC, and fill in the Academic Activities Registration Form and get the official stamp upon attendance. One credit can be granted to the candidate when he/she succeeds in completing the above procedures.

3)Chinese Proficiency Assessment: The Ministry of Education requires the Chinese language ability of international graduates' to reach the level 3 based on the International Chinese Proficiency Standards at the time of graduation. Master's students are required to undergo a Chinese assessment level 3 during their stay at the university, and those who meet the requirements are eligible to apply for their graduation defense. Chinese Proficiency Assessment is accredited by School of International Education.

7.Degree Thesis

Master Program (for International Students) in Software Engineering

As the software industry becomes a pillar industry in national economy, the discipline of Software Engineering becomes one of the fast developing disciplines in Information Technology. The development in this field has a wind-range, multidimensional, multilayer and interdisciplinary architecture. The knowledge in this field includes software requirement, software design, software test, software maintenance, software configuration management, software project management, software quality, software security and software ethics and laws. It is also connected with various disciplines such as system engineering, domain engineering, digital technology, system management and support, network and information security, embedded system and marketing.

1.Objectives

The cultivation objectives focus on fundamental software theory. Complying with development of software technology and demand of software industry and following international software development mode, master degree graduates of the discipline are research-oriented talents with solid knowledge of software engineering theory, software development technology and software development process.

Masters of the discipline are expected to be familiar with advanced programming technologies, mainstream operating system and software development platforms. On graduation, they should be qualified for system analysis, design and programming by following international software development mode and standards. They should also have basic knowledge of project management and be capable of using modern software technology and tools. They should also be competent in scientific researches related to the fields of software engineering, system and software design, development and management.

Masters of the discipline are also expected to have a basic knowledge of Chinese history and culture, and be capable of reading Chinese scientific literature in simple Chinese and communicating with basic skills in Chinese language.

2. Orientations

- 1)Network security and network engineering
- 2)Software theory
- 3)Embedded software technology and application
- 4)Digital information processing
- 5)Cloud computing and big data
- 6)Intelligent computing

3.Duration

The duration set for master candidates is 2 years full-time. An extension can be applied for by those who cannot finish their courses in time owing to objective causes, yet altogether 4 years is the last due.

4. Progression and Requirements

The minimum sum total credits for international students of master candidates are 26. Master candidates should complete the course work of no less than a total of 24 credits (out of which at least 15 credits should be acquired from degree courses), compulsory sections of no less than 2 credits, complete the thesis (or a research report) independently, and pass the degree thesis defense.

The supervisor responsibility mechanism is adopted in the education for international master candidates. The supervisor is responsible for the student's making of personal study plan, the choice of courses, and the completion of the research report or the degree thesis. The personal study plan cannot be changed without permission of the supervisor.

During the course work, according to specifications by the discipline, the student is to pass examinations held for the degree courses and examinations or assessments held for the other optional courses. Of all the degree courses, common core courses are compulsory. Master candidates are allowed to choose 1~2 inter-disciplinary core courses as their degree courses under supervisors' guidance. A Survey of China and Comprehensive Chinese are compulsory for international postgraduates, who are required to pass the HSK 3 or equivalent Chinese Language Test by graduation. Those who fail to meet the requirements as described above can fill up the gap by repetition or make-up in the limit of one year. Those who fail to meet the credit requirements even till the end of the due time are to be terminated.

5.Curriculum

Course (Categories	Course Number	Course Name	Class Hours	Credits	Semester	Notes
	Common	6900005001	Comprehensive Chinese	60	2	1	Cammulaami
	Core Course	6900005002	A Survey of China	40	2	2	Compulsory
		1100016001	Stochastic Processes and Applications	60	3	1	At least 1
		1100016004	Matrix Theory	60	3	1	from 3
Degree		1107016005	Numerical Analysis	60	3	1/2	
Courses	Major Core Course	0908356004	Software Architecture Model and Design	40	2	2	
	Course	0908356007	Embedded Systems Design	40	2	2	
		0908356009	Fundamentals of Network Computing	40	2	1	
		0908356010	Network Security: Theory and Practice	40	2	1	

		0908357009	Object-oriented System Analysis and Design	40	2	2	
	Elective	0908357011	Android Application Development	40	2	2	
Non-degree	Major Course	0908357012	New Theory and Practice of Database	40	2	1	
Optional Courses		0908357014	Data Science and Application	40	2	2	
Courses		0908357015	Computer Network Programming	40	2	2	
	Other	6900005003	Chinese Reading & Writing	60	2	2	
	Elective Course	XX0004XXXX	High-Level International Courses	/	/	1/2	
		6400006003	Academic Activities	0	1	1,2	
Compulsory Sect	ry Section	6900006001	Chinese Proficiency Assessment	60	0	1,2	Compulsory
Compulsory Section		XX00025XXX	Elective Competence Development Courses	0	1	1,2	compulsory

6. Compulsory Sections

The compulsory sections for international students of master candidates include three parts, a candidate is required to complete the following aspects:

- 1)Elective Competence Development Courses: through introducing the academic cutting edge knowledge, culture, arts and sports, etc, such courses are given to improve the master candidates' comprehensive competence. A candidate should take at least one course and get one credit after assessment.
- 2) Academic Activities: to enliven academic atmosphere and to further and broaden master candidates' scope of knowledge, one should attend at least five academic lectures within and out of UESTC, and fill in the Academic Activities Registration Form and get the official stamp upon attendance. One credit can be granted to the candidate when he/she succeeds in completing the above procedures.
- 3) Chinese Proficiency Assessment: The Ministry of Education requires the Chinese language ability of international graduates' to reach the level 3 based on the International Chinese Proficiency Standards at the time of graduation. Master's/doctoral students are required to undergo a Chinese assessment level 3 during their stay at the university, and those who meet the requirements are eligible to apply for their graduation defense. Chinese Proficiency Assessment is accredited by School of International Education.

7. Degree Thesis

Master Program (for International Students) in Public Management

School of Public Affairs and Administration (SPAA) is top ranked for our full line of degrees from undergraduate to Ph.D degree including 4 bachelor degrees of Public Management, Information Management, Law and Urban Studies and 2 master degrees of Public Management and Journalism and Communication, 2 professional programs of MPA and MJC respectively, English-instructed International Program in Public Management and Ph.D degree in Urban Studies and Management in highly rated education with featured key disciplines, as well as featured Think Tank, Centers and Institutes for Social Science Research.

SPAA offer many unusual advantages compared to other schools of Public Administration and Political School for UESTC is "a cradle for Chinese Electronic Information Industry". Our school's research and teaching is information knowledge based one. With joint efforts and contributions from SPAA faculty, we have witnessed proud legacy of teaching and researching nationwide with Top National Courses based Teaching Achievements, Nationally Recognized Research Projects Granted and enjoy popularity of academic influence worldwide via the platform of International Conference on Public Administration (ICPA).

1.Objectives

Comprised of a core curriculum, distribution requirements, areas of focus and electives, the two-year MPM is a science degree program designed for students with current and future managerial and development skills for the public service, at local, provincial and national levels of government. Many students focus their electives into an optional concentration of study comprised of topical courses at School of Public Affairs and Administration (SPAA) as well as in departments and schools across campus. The concentration areas offered by SPAA mainly reflect the areas in which faculty do research and are a way to choose a set of courses that provide depth in a substantive public management area. Students who do not select a concentration area are expected to select courses that make academic sense.

A Survey of China and Comprehensive Chinese are compulsory for international postgraduates, who are required to pass the HSK 3 or equivalent Chinese language test by graduation.

2. Orientations

- 1) Public Administrative Management
- 2) Public Policy
- 3) Digital Public Governance

4) Urban-rural Public Governance

3. Duration

The duration set for master candidates is 2 years full-time. An extension can be applied for by those who cannot finish their courses in time owing to objective causes, yet altogether 4 years is the last due.

4. Progression and Requirements

The minimum sum total credits for international students of master candidates are 30. Master candidates should complete the course work of no less than a total of 28 credits (out of which at least 17 credits should be acquired from degree courses), compulsory sections of no less than 2 credits, complete the thesis (or a research report) independently, and pass the degree thesis defense.

The supervisor responsibility mechanism is adopted in the education for international master candidates. The supervisor is responsible for the student's making of personal study plan, the choice of courses, and the completion of the research report or the degree thesis. The personal study plan cannot be changed without permission of the supervisor.

During the course work, according to specifications by the discipline, the student is to pass examinations held for the degree courses and examinations or assessments held for the other optional courses. Of all the degree courses, common core courses and disciplinary core courses are compulsory; Master candidates are allowed to choose 1~2 inter-disciplinary core courses as their degree courses under supervisors' guidance. International students of Chinese language abilities can apply to take courses given in Chinese to local full-time graduate students and acquire corresponding credits if pass.

Those who fail to meet the requirements as described above can fill up the gap by repetition or make-up in the limit of one year. Those who fail to meet the credit requirements even till the end of the due time are to be terminated.

5.Curriculum

Course (Categories	Course Number	Course Name	Class Hours	Credits	Semester	Notes	
	Common	6900005001	Comprehensive Chinese	60	2	1	C1	
	Core Course	6900005002	A Survey of China	40	2	2	Compulsory	
		1612046011	Public Management	48	3	1		
Degree			1612046012	Classic Readings of Public Administration	48	3	1	
Courses	Major Core	1612046013	Social Science Research Methodologies	32	2	1		
	Course	1612046015	Public Economics	32	2	2		
		1612046016	E-government	32	2	2		
		1612046017	Public Human Resource Management	32	2	2		

	W: G	1612046018	Comparative Government and Politics	40	2.5	2	
Degree Courses	Major Core Course	1612046019	The Globalization of World Politics	32	2	1	
		1612046020	Public Policy	40	2.5	2	
	Elective	1612047011	Government and Media	32	2	2	
Non-degree	Major Course	1612047012	Academic Writing	20	1	1	Compulsory
Optional Courses	Other	6900005003	Chinese Reading & Writing	60	2	2	
Courses	Elective Course	XX0004XXXX	High-Level International Courses	/	/	1/2	
		6400006003	Academic Activities	0	1	1,2	
Compulso	ory Section	6900006001	Chinese Proficiency Assessment	60	0	1,2	Compulsory
Compulsory Section		XX00025XXX	Elective Competence Development Courses	0	1	1,2	Compuisory

Directions: All courses, except for the Chinese ones specified by the requirements, are totally given in English.

6. Compulsory Sections

The compulsory sections for international students of master candidates include three parts, a candidate is required to complete the following aspects:

1)Elective Competence Development Courses: through introducing the academic cutting edge knowledge, culture and arts, etc, such courses are given to improve the master candidates' comprehensive competence. A candidate should take at least one course and get one credit after assessment.

2)Academic Activities: to enliven academic atmosphere and to further and broaden master candidates' scope of knowledge, one should attend at least five academic lectures within and out of UESTC, and fill in the Academic Activities Registration Form and get the official stamp upon attendance. One credit can be granted to the candidate when he/she succeeds in completing the above procedures.

3)Chinese Proficiency Assessment: The Ministry of Education requires the Chinese language ability of international graduates' to reach the level 3 based on the International Chinese Proficiency Standards at the time of graduation. Master's/doctoral students are required to undergo a Chinese assessment level 3 during their stay at the university, and those who meet the requirements are eligible to apply for their graduation defense. Chinese Proficiency Assessment is accredited by School of International Education.

7. Degree Thesis

Ph.D Program (for International Students) in Physics

Physics is the natural science that involves the study of matter and its motion through space and time, along with related concepts such as energy and force. It is conducted to disclose the structure of matter, interaction between matters, and the motion laws of matters in order to understand the universe. It results in many significant technologies and products.

The School of Physics at University of Electronic Science and Technology of China has the primary objective of advancing knowledge of physics and training of qualified manpower to acquire and develop an economy based on high technology. It is also involved in inter-disciplinary research with other branches of science as well as engaging in collaborative work with industry. Six fields, Theoretical Physics, Condensed Matter Physics, Radio physics, Optics, Plasma Physics, and Quantum Physics and Quantum Information, have established their reputation for research excellence. Collaborations in research across national borders and disciplines have been built. The school intends to play a key role in the advancement of China into a high-tech era.

This programme offers excellent opportunities for students to further develop their potential as intellectual leaders for a wide range of career paths. They will not only acquire fundamental and emerging knowledge in physics, but also solve practical problems of relevance to industrial development.

1. Objectives

Candidates of Doctor of Philosophy in Physics are expected to have a profound knowledge in fundamental physics and experimental skills. They are also required to have a clear vision of cutting-edge research and emerging trends in physics. The candidates should be able to develop research projects and conduct research independently.

A Survey of China and Comprehensive Chinese are compulsory for international postgraduates, who are required to pass the HSK 3 or equivalent Chinese language test by graduation.

2. Orientations

- 1)Theoretical Physics
- 2)Condensed Matter Physics
- 3)Radio Physics
- 4)Optics
- 5)Plasma Physics
- 6) Quantum Physics and Quantum Information

3. Duration

The duration set for Ph.D candidates is 3 years full-time. An extension can be applied for by those who cannot finish their courses on time owing to objective causes, yet altogether 6 years is the last due.

4. Progression and Requirements

International students of Ph.D candidates can take 1) full-time training, i.e. the whole progression is done at UESTC, or 2) on-the-job training, i.e. finishing the course work at UESTC and completing the dissertation in their home country, with no less than 1 year to be spent at UESTC for the research work around the dissertation. Either way chosen, the dissertation defense should be done at UESTC.

The supervisor responsibility mechanism is adopted in the education for international Ph.D candidates. The supervisor is responsible for the student's making of personal study plan, the choice of courses, and the completion of the research report or the degree thesis.

The minimum total credits for international students of Ph.D candidates is 14, Ph.D candidates should complete the course work of no less than a total of 12 credits (out of which at least 8 should be of the degree course categories), compulsory sections of no less than 2 credits. During the course work, according to specifications by the discipline, the student is to pass examinations held for the degree courses and examinations or assessments held for the other optional courses. Of all the degree courses, common core courses are compulsory. Ph.D candidates are allowed to choose 1~2 inter-disciplinary core courses as their degree courses under supervisors' guidance. International students of Chinese language abilities can apply to take courses given in Chinese to local full-time graduate students and acquire corresponding credits if pass.

Those who fail to meet the credit requirements will be denied the thesis defense.

5. Curriculum

Course (Categories Course Number Course Name		Class Hours	Credits	Semester	Notes	
	Common	6900005001	Comprehensive Chinese	60	2	1	Camanalaama
	Core Course	6900005002	A Survey of China	40	2	2	Compulsory
	- I I	1107016004	Optimization Methods and Applications	50	2.5	1	At least 1
Degree		1107016007	Numerical Algebra	50	2.5	2	from 2
Courses		0208096106	Advanced Electromagnetic Field Theory	60	3	1	
		1207026002	Quantum field theory (I)	50	2.5	1	
		1207026006	Advanced quantum mechanics	60	3	2	
		1207026026	General Relativity	40	2	2	
Non-degree Optional Courses	Elective Major Course	1207027017	String theory	40	2	2	

	Elective	1207027028	Nano-Optics	40	2	2	
Non-degree	Major Course	1207027029	Quantum Field Theory (II)	50	2.5	2	
Optional Courses	Other Elective Course	6900005003	Chinese Reading & Writing	60	2	2	
		6400006003	Academic Activities	0	1	1,2	
		6400006004	Research Proposal and Literature Review of the Dissertation	0	0	1,2	
Compulsory Section		6400006005	Comprehensive Examination for Ph.D Candidates	0	0	1,2	Compulsory
		6900006001	Chinese Proficiency Assessment	60	0	1,2	
		XX00025XXX	Elective Competence Development Courses	0	1	1,2	

Directions: All courses, except for the Chinese ones specified by the requirements, are totally given in English.

6. Compulsory Sections

The compulsory sections for international students of Ph.D candidates include five parts, a candidate is required to complete the following aspects:

1)Elective Competence Development Courses: through introducing the academic cutting edge knowledge, culture, arts and sport, etc, such courses are given to improve the Ph.D candidates' comprehensive competence. A candidate should take at least one course and get one credit after assessment.

2)Academic Activities: to enliven academic atmosphere and to further and broaden Ph.D candidates' scope of knowledge, one should attend at least ten academic lectures within and out of UESTC, and fill in the Academic Activities Registration Form and get the official stamp upon attendance. One credit can be granted to the candidate when he/she succeeds in completing the above procedures.

3)Comprehensive Examination for Ph.D. Candidates (hereinafter as CEPC): which is taken upon their completion of all required courses. It mainly tests their understanding of basic theories and professional knowledge, and also checks their mastery of the research directions, of the leading edge, and of the dynamics in relevant fields.

A. Ph.D. candidates should generally take the CEPC at the end of the first year after enrollment. Those who fail in CEPC will have the opportunity to resit in the next year. If one still fails the resit, then she/he cannot participate in the dissertation defense and will terminate the study.

B. The CEPC is implemented by the Examination Committee (hereinafter as EC), which is composed of three experts designated by the Academic Degree Evaluation Committee of the School. The chairman of EC must be a professor, while the other members being professors or associate professors.

C. The CEPC can integrate written and oral patterns with one-hundred-mark system. The written

examination should account for at least 50%.

D. According to the actual situation, each discipline should organize two times of CEPC each year in April and October respectively. Having collected the test questions, test papers, oral test records and comments of the CEPC, the Teaching Affairs Secretary of each school should submit all these materials with the results of CEPC to the Section of Teaching Management in Graduate School for filing and preservation.

4)The Research Proposal Report and Literature Review of Dissertation (hereinafter as RPRLRD): before making the Research Proposal Report for the dissertation, all Ph.D. candidates should read more than 30 papers in the leading edge of their discipline from the latest literature. Then everyone should finish a literature review report of about 5,000 words as well as the corresponding Research Proposal Report.

5)Chinese Proficiency Assessment: The Ministry of Education requires international graduates' Chinese language ability of to reach the level 3 based on the International Chinese Proficiency Standards at the time of graduation. Master's/doctoral students are required to undergo a Chinese assessment level 3 during their stay at the university, and those who meet the requirements are eligible to apply for their graduation defense. Chinese Proficiency Assessment is accredited by School of International Education.

7. Degree Thesis

Ph.D Program (for International Students) in Mechanical Engineering

Mechanical Engineering is the first level discipline based on natural science and engineering technology, which aims to study the related theory on mechanical design, manufacturing, control, operation and maintenance during the usage of the mechanical equipment, and further resolve practical engineering problems. This discipline covers several directions, such as mechanical design and theory, mechanical manufacturing and automation, and mechatronics engineering, which leads to the discipline advantage with the multi-disciplinary synthesis of machine, electronic information, and measurement & control technology.

1.Objectives

Ph.D candidates of the discipline are expected to have a profound knowledge of the cutting-edge research and trend of the field and a solid and extensive grasp of the theoretical and systematic expertise in a certain direction among mechatronic systems design, manufacturing and measurement and control, as are able to complete experiments and studies of the field independently, able to contribute high-level academic papers and exchange views in international conferences, and to demonstrate rigorous spirits in scientific approaches and independence in scientific pursuits with in-depth studies and innovative achievements, so as to have the competency of undertaking researches and developing projects independently and qualities of being academic leaders or projects leaders.

A Survey of China and Comprehensive Chinese are compulsory for international postgraduates, who are required to pass the HSK 3 or equivalent Chinese language test by graduation.

2.Orientations

- 1) Equipment reliability and equipment monitoring management
- 2) Intelligent manufacturing equipment,
- 3) Intelligent perception and control technology
- 4) Equipment intelligence design and simulation

3. Duration

The duration set for Ph.D candidates is 3 years full-time. An extension can be applied for by those who cannot finish their courses on time owing to objective causes, yet altogether 6 years is the last due.

4. Progression and Requirements

International students of Ph.D candidates can take 1) full-time training, i.e. the whole progression is done at UESTC, or 2) on-the-job training, i.e. finishing the course work at UESTC and completing the

dissertation in their home country, with no less than 1 year to be spent at UESTC for the research work around the dissertation. Either way chosen, the dissertation defense should be done at UESTC.

The supervisor responsibility mechanism is adopted in the education for international Ph.D candidates. The supervisor is responsible for the student's making of personal study plan, the choice of courses, and the completion of the research report or the degree thesis.

The minimum total credits for international students of Ph.D candidates is 14, Ph.D candidates should complete the course work of no less than a total of 12 credits (out of which at least 8 should be of the degree course categories), compulsory sections of no less than 2 credits. During the course work, according to specifications by the discipline, the student is to pass examinations held for the degree courses and examinations or assessments held for the other optional courses. Of all the degree courses, common core courses are compulsory. Ph.D candidates are allowed to choose 1~2 inter-disciplinary core courses as their degree courses under supervisors' guidance. Degree courses can be taken to substitute non-degree courses, but not vice versa. International students of Chinese language abilities can apply to take courses given in Chinese to local full-time graduate students and acquire corresponding credits if pass.

Those who fail to meet the credit requirements will be denied the thesis defense.

5. Curriculum

Course C	Categories	Course Number	Course Name	Class Hours	Credits	Semester	Notes
	Common	6900005001	Comprehensive Chinese	60	2	1	Commulatori
	Core Course	6900005002	A Survey of China	40	2	2	Compulsory
		1107016004	Optimization Methods and Applications	50	2.5	1	At least 1
Degree		1107016005	Numerical Analysis	60	3	1/2	from 2
Courses	Major Core Course	0408026009	Micro-Electro-Mechanical System (MEMS)	40	2	1	
	Course	0408026010	Advanced Manufacturing Technology	40	2	1	
		0808126020	Embedded Operating System and Application	40	2	2	
		0108106007	Signal Detection and Estimation	40	2	1	
	Elective	0408027013	Reliability Design	40	2	2	
Nau dassas	Major	0408027018	Machinery Dynamics	40	2	2	
Non-degree Optional Courses	Course	1008116004	Theories and Methods of Systems Engineering	40	2	1	
	Other Elective Course	6900005003	Chinese Reading & Writing	60	2	2	

	6400006003	Academic Activities	0	1	1,2	
Compulsory Section	6400006004	Research Proposal and Literature Review of the Dissertation	0	0	1,2	
	6400006005	Comprehensive Examination for Ph.D Candidates	0	0	1,2	Compulsory
	6900006001	Chinese Proficiency Assessment	60	0	1,2	
	XX00025XXX	Elective Competence Development Courses	0	1	1,2	

Common Core Courses, Major Core Courses, Elective Major Courses, Other Elective Courses.

6. Compulsory Sections

The compulsory sections for international students of Ph.D candidates include five parts, a candidate is required to complete the following aspects:

1)Elective Competence Development Courses: through introducing the academic cutting edge knowledge, culture, arts and sport, etc, such courses are given to improve the Ph.D candidates' comprehensive competence. A candidate should take at least one course and get one credit after assessment.

2)Academic Activities: to enliven academic atmosphere and to further and broaden Ph.D candidates' scope of knowledge, one should attend at least ten academic lectures within and out of UESTC, and fill in the Academic Activities Registration Form and get the official stamp upon attendance. One credit can be granted to the candidate when he/she succeeds in completing the above procedures.

3)Comprehensive Examination for Ph.D. Candidates (hereinafter as CEPC): which is taken upon their completion of all required courses. It mainly tests their understanding of basic theories and professional knowledge, and also checks their mastery of the research directions, of the leading edge, and of the dynamics in relevant fields.

A.Ph.D. candidates should generally take the CEPC at the end of the first year after enrollment. Those who fail in CEPC will have the opportunity to resit in the next year. If one still fails the resit, then she/he cannot participate in the dissertation defense and will terminate the study.

B.The CEPC is implemented by the Examination Committee (hereinafter as EC), which is composed of three experts designated by the Academic Degree Evaluation Committee of the School. The chairman of EC must be a professor, while the other members being professors or associate professors.

C.The CEPC can integrate written and oral patterns with one-hundred-mark system. The written examination should account for at least 50%.

D.According to the actual situation, each discipline should organize two times of CEPC each year in April and October respectively. Having collected the test questions, test papers, oral test records and comments of the CEPC, the Teaching Affairs Secretary of each school should submit all these materials with the results of CEPC to the Section of Teaching Management in Graduate School for filing and

preservation.

4)The Research Proposal Report and Literature Review of Dissertation (hereinafter as RPRLRD): before making the Research Proposal Report for the dissertation, all Ph.D. candidates should read more than 30 papers in the leading edge of their discipline from the latest literature. Then everyone should finish a literature review report of about 5,000 words as well as the corresponding Research Proposal Report.

5)Chinese Proficiency Assessment: The Ministry of Education requires the Chinese language ability of international graduates' to reach the level 3 based on the International Chinese Proficiency Standards at the time of graduation. Master's/doctoral students are required to undergo a Chinese assessment level 3 during their stay at the university, and those who meet the requirements are eligible to apply for their graduation defense. Chinese Proficiency Assessment is accredited by School of International Education.

7. Degree Thesis

Ph.D Program (for International Students) in Optical Engineering

Optical Engineering, which mainly focuses on Light Information Acquisition, Optical Transmission, Optical Switching, Optical Information Processing and Photoelectric Image Display, has wide applications in the industry, and becomes an important discipline in the current information technology field.

The teaching and research area of Optical Engineering in UESTC covers the theory and application of the whole optical engineering discipline, especially strong in optical communication, photonic integration, infrared and sensing technology, panel display and imaging technology. The discipline has undertaken a number of national key research projects, receiving sufficient funds, and wining several state or provincial awards. The main research direction of this discipline has stepped into the leading position in China, also having a certain international influence.

The discipline of optical engineering was rated as A class discipline in the fourth round of discipline evaluation of national colleges and universities.

1.Objectives

Ph.Ds of the discipline are expected to have a profound knowledge of the cutting-edge research and trend of the field and a solid and extensive grasp of the theoretical and systematic expertise, as are able to complete experiments and studies of the filed independently, to be proficient in the use of computers, able to contribute high-level academic papers and exchange views in international conferences, and to demonstrate rigorous spirits in scientific approaches and independence in scientific pursuits with in-depth studies and innovative achievements, so as to have the competency of undertaking researches and developing projects independently and qualities of being academic leaders or project leaders.

A Survey of China and Comprehensive Chinese are compulsory for international postgraduates, who are required to pass the HSK 3 or equivalent Chinese language test by graduation.

2.Orientations

- 1)Optic communication and optic integration
- 2)Photoelectric Detection and System Integration
- 3)Sensitive electronics and sensor network
- 4)Display and Imaging
- 5) Microwave photonics
- 6)Photoelectric measurement and control technology

3.Duration

International students of Ph.D candidates can take 1) full-time training, i.e. the whole progression is

done at UESTC, or 2) on-the-job training, i.e. finishing the course work at UESTC and completing the dissertation in their home country, with no less than 1 year to be spent at UESTC for the research work around the dissertation. Either way chosen, the dissertation defense should be done at UESTC.

The supervisor responsibility mechanism is adopted in the education for international Ph.D candidates. The supervisor is responsible for the student's making of personal study plan, the choice of courses, and the completion of the research report or the degree thesis.

The duration set for Ph.D candidates is 3 years full-time. An extension can be applied for by those who cannot finish their courses on time owing to objective causes, yet altogether 6 years is the last due.

4. Progression and Requirements

The minimum total credits for international students of Ph.D candidates is 14, Ph.D candidates should complete the course work of no less than a total of 12 credits (out of which at least 8 should be of the degree course categories), compulsory sections of no less than 2 credits. During the course work, according to specifications by the discipline, the student is to pass examinations held for the degree courses and examinations or assessments held for the other optional courses. Of all the degree courses, common core courses are compulsory. Ph.D candidates are allowed to choose 1~2 inter-disciplinary core courses as their degree courses under supervisors' guidance. International students of Chinese language abilities can apply to take courses given in Chinese to local full-time graduate students and acquire corresponding credits if pass.

Those who fail to meet the credit requirements will be denied the thesis defense.

5.Curriculum

Course (Categories	Course Number	Course Name	Class Hours	Credits	Semester	Notes
	Common	6900005001	Comprehensive Chinese	60	2	1	Camanalaama
	Core Course	6900005002	A Survey of China	40	2	2	Compulsory
		1107016004	Optimization Methods and Applications	50	2.5	1	At least 1
Degree	Degree	1107016005	Numerical Analysis	60	3	1/2	from 2
Courses	Major Core	0108106020	Fiber Optical Communication	30	1.5	2	
	Course	0208096106	Advanced Electromagnetic Field Theory	60	3	1	
		0508036001	Optoelectronics Technology	40	2	1	
		0508036021	Fiber Optics	30	1.5	1	
		0108106007	Signal Detection and Estimation	40	2	1	
Non-degree	Non-degree Elective Optional Major Courses Course	0108107026	Optical Fiber Technology	40	2	1	
1		0508037029	Optoelectronics and Photonics	20	1	1	
Courses	Course	0508037033	Organic Electronics	20	1	2	

Non-degree Optional Courses	Elective Major Course	1207026016	Nano-optics	40	2	1,2	
	Other Elective Course	6900005003	Chinese Reading & Writing	60	2	2	
		6400006003	Academic Activities	0	1	1,2	
		6400006004	Research Proposal and Literature Review of the Dissertation	0	0	1,2	
Compulsory Section		6400006005	Comprehensive Examination for Ph.D Candidates	0	0	1,2	Compulsory
		6900006001	Chinese Proficiency Assessment	60	0	1,2	
		XX00025XXX	Elective Competence Development Courses	0	1	1,2	

Directions: All courses, except for the Chinese ones specified by the requirements, are totally given in English.

6. Compulsory Sections

The compulsory sections for international students of Ph.D candidates include five parts, a candidate is required to complete the following aspects:

1)Elective Competence Development Courses: through introducing the academic cutting edge knowledge, culture, arts and sport, etc, such courses are given to improve the Ph.D candidates' comprehensive competence. A candidate should take at least one course and get one credit after assessment.

2)Academic Activities: to enliven academic atmosphere and to further and broaden Ph.D candidates' scope of knowledge, one should attend at least ten academic lectures within and out of UESTC, and fill in the Academic Activities Registration Form and get the official stamp upon attendance. One credit can be granted to the candidate when he/she succeeds in completing the above procedures.

3)Comprehensive Examination for Ph.D. Candidates (hereinafter as CEPC): which is taken upon their completion of all required courses. It mainly tests their understanding of basic theories and professional knowledge, and also checks their mastery of the research directions, of the leading edge, and of the dynamics in relevant fields.

A.Ph.D. candidates should generally take the CEPC at the end of the first year after enrollment. Those who fail in CEPC will have the opportunity to resit in the next year. If one still fails the resit, then she/he cannot participate in the dissertation defense and will terminate the study.

B.The CEPC is implemented by the Examination Committee (hereinafter as EC), which is composed of three experts designated by the Academic Degree Evaluation Committee of the School. The chairman of EC must be a professor, while the other members being professors or associate professors.

C.The CEPC can integrate written and oral patterns with one-hundred-mark system. The written

examination should account for at least 50%.

D. According to the actual situation, each discipline should organize two times of CEPC each year in April and October respectively. Having collected the test questions, test papers, oral test records and comments of the CEPC, the Teaching Affairs Secretary of each school should submit all these materials with the results of CEPC to the Section of Teaching Management in Graduate School for filing and preservation.

4)The Research Proposal Report and Literature Review of Dissertation (hereinafter as RPRLRD): before making the Research Proposal Report for the dissertation, all Ph.D. candidates should read more than 30 papers in the leading edge of their discipline from the latest literature. Then everyone should finish a literature review report of about 5,000 words as well as the corresponding Research Proposal Report.

5)Chinese Proficiency Assessment: The Ministry of Education requires the Chinese language ability of international graduates' to reach the level 3 based on the International Chinese Proficiency Standards at the time of graduation. Doctoral students are required to undergo a Chinese assessment level 3 during their stay at the university, and those who meet the requirements are eligible to apply for their graduation defense. Chinese Proficiency Assessment is accredited by School of International Education.

7. Degree Thesis

Ph.D Program (for International Students) in Materials Science and Engineering

The Discipline of Materials Science and Engineering studies the composition, structure, preparation process, properties and applications of materials. The research objects include the theory, design, preparation, testing and application of electrical, magnetic, acoustic, optical, thermal, mechanical and biological functional materials. The research process involves the acquisition, transformation, storage, processing and control of materials information. UESTC is the first batch selected into the national project of First-class Universities and Disciplines of the World. Research and development of electronic information materials and application are characteristics and advantages of UESTC. The discipline of Materials Science and Engineering has strong academic faculties, which include doctoral supervisor, professors, associate professors, and a number of Ph.D talents, advanced experimental facilities and plenty of research funds.

With the development of science and technology, the discipline of Materials Science and Engineering has become more and more closely interdisciplinary with other disciplines. At the same time, as an important pillar of modern civilization, the discipline has become the forerunner and foundation of the development of modern science and technology, and has a very close relationship with the development of contemporary society.

1.Objectives

Ph.Ds of the discipline of Materials Science and Engineering are expected to have a profound knowledge of the cutting-edge research and trend of the field and a solid and extensive grasp of the theoretical and systematic expertise, as are able to complete experiments and studies of the filed independently, to be proficient in the use of computers, able to contribute high-level academic papers and exchange views in international conferences, and to demonstrate rigorous spirits in scientific approaches and independence in scientific pursuits with in-depth studies and innovative achievements, so as to have the competency of undertaking researches and developing projects independently and qualities of being academic leaders or project leaders.

2. Orientations

- 1)Electronic Information Materials and Devices
- 2) Materials Gene Project
- 3) Electronic Film and Integrated Devices
- 4) New Energy Materials and Devices

- 5)Printed Circuits and Printed Electronic Technology
- 6)Organic Functional Materials and Engineering

3.Duration

International students of Ph.D candidates can take 1) full-time training, i.e. the whole progression is done at UESTC, or 2) on-the-job training, i.e. finishing the course work at UESTC and completing the dissertation in their home country, with no less than 1 year to be spent at UESTC for the research work around the dissertation. Either way chosen, the dissertation defense should be done at UESTC.

The supervisor responsibility mechanism is adopted in the education for international Ph.D candidates. The supervisor is responsible for the student's making of personal study plan, the choice of courses, and the completion of the degree thesis.

The duration set for Ph.D candidates is 3 years full-time. An extension can be applied for by those who cannot finish their courses on time owing to objective causes, yet altogether 6 years is the last due.

4. Progression and Requirements

The minimum total credits for international students of Ph.D candidates is 14, Ph.D candidates should complete the course work of no less than a total of 12 credits (out of which at least 8 should be of the degree course categories), compulsory sections of no less than 2 credits. During the course work, according to specifications by the discipline, the student is to pass examinations held for the degree courses and examinations or assessments held for the other optional courses. Of all the degree courses, common core courses are compulsory. Ph.D candidates are allowed to choose 1~2inter-disciplinary core courses as their degree courses under supervisors' guidance. International students of Chinese language abilities can apply to take courses given in Chinese to local full-time graduate students and acquire corresponding credits if pass.A Survey of China and Comprehensive Chinese are compulsory for international postgraduates, who are required to pass the HSK 3 or equivalent Chinese language test by graduation.

Those who fail to meet the credit requirements will be denied the thesis defense.

5.Curriculum

Course (Categories	Course Number	Course Name	Class Hours	Credits	Semester	Notes
	Common	6900005001	Comprehensive Chinese	60	2	1	Camanala a ma
	Core Course	6900005002	A Survey of China	40	2	2	Compulsory
Degree		1107016004	Optimization Methods and Applications	50	2.5	1	At least 1
Courses	Major Core	1107016007	Numerical Algebra	50	2.5	2	from 2
	Course	0208096106	Advanced Electromagnetic Field Theory	60	3	1	
		0208096107	Microwave Engineering	40	2	2	

Non-degree		0108106007	Signal Detection and Estimation	40	2	1	
		0208096104	RF IC Design	40	2	2	
		0208097019	Advanced Digital Integrated Circuits Design	40	2	2	
	Elective Major Course	0208097020	Principles of VLSI Circuit Simulation and Design Automation	40	2	1	
Optional Courses		0308057010	Material design and calculation	30	1.5	2	
Courses		0308057016	Optoelectronic Conversion from Fundamental to Devices	20	1	2	
		0308177009	Laboratory safety and fire safety	20	1	1	
	Other Elective Course	6900005003	Chinese Reading & Writing	60	2	2	
		6400006003	Academic Activities	0	1	1,2	
Compulsory Section		6400006004	Research Proposal and Literature Review of the Dissertation	0	0	1,2	
		6400006005	Comprehensive Examination for Ph.D Candidates	0	0	1,2	Compulsory
		XX00025XXX	Elective Competence Development Courses	0	1	1,2	
		6900006001	Chinese Proficiency Assessment	60	0	1,2	

6. Compulsory Sections

The compulsory sections for international students of Ph.D candidates include five parts, a candidate is required to complete the following aspects:

1)Elective Competence Development Courses: through introducing the academic cutting edge knowledge, culture, arts and sport, etc, such courses are given to improve the Ph.D candidates' comprehensive competence. A candidate should take at least one course and get one credit after assessment.

2)Academic Activities: to enliven academic atmosphere and to further and broaden Ph.D candidates' scope of knowledge, one should attend at least ten academic lectures within and out of UESTC, and fill in the Academic Activities Registration Form and get the official stamp upon attendance. One credit can be granted to the candidate when he/she succeeds in completing the above procedures.

3)Comprehensive Examination for Ph.D. Candidates (hereinafter as CEPC): which is taken upon their completion of all required courses. It mainly tests their understanding of basic theories and professional knowledge, and also checks their mastery of the research directions, of the leading edge, and of the dynamics in relevant fields.

A. Ph.D. candidates should generally take the CEPC at the end of the first year after enrollment. Those who fail in CEPC will have the opportunity to resit in the next year. If one still fails the resit, then

she/he cannot participate in the dissertation defense and will terminate the study.

B.The CEPC is implemented by the Examination Committee (hereinafter as EC), which is composed of three experts designated by the Academic Degree Evaluation Committee of the School. The chairman of EC must be a professor, while the other members being professors or associate professors.

C.The CEPC can integrate written and oral patterns with one-hundred-mark system. The written examination should account for at least 50%.

D. According to the actual situation, each discipline should organize two times of CEPC each year in April and October respectively. Having collected the test questions, test papers, oral test records and comments of the CEPC, the Teaching Affairs Secretary of each school should submit all these materials with the results of CEPC to the Section of Teaching Management in Graduate School for filing and preservation.

4)The Research Proposal Report and Literature Review of Dissertation (hereinafter as RPRLRD): before making the Research Proposal Report for the dissertation, all Ph.D. candidates should read more than 30 papers in the leading edge of their discipline from the latest literature. Then everyone should finish a literature review report of about 5,000 words as well as the corresponding Research Proposal Report.

5) Chinese Proficiency Assessment: The Ministry of Education requires the Chinese language ability of international graduates' to reach the level 3 based on the International Chinese Proficiency Standards at the time of graduation. Doctoral students are required to undergo a Chinese assessment level 3 during their stay at the university, and those who meet the requirements are eligible to apply for their graduation defense. Chinese Proficiency Assessment is accredited by School of International Education.

7. Degree Thesis

All degree thesis problems shall refer to UESTC Regulations for Postgraduate Degree Conferring. For Int'l students, the language used in the defense should be English.

Ph.D Program (for International Students) in Electronic Science and Technology

The Discipline of Electronic Science and Technology, which has been selected into the national project of First-class Universities and Disciplines of the World, is one of the national key disciplines of China. It consists of 5 second disciplines including electromagnetic field and microwave technology, microelectronics and solid state electronics, circuits and systems, Electronic Information Materials and Devices and Electronic information materials and components. In pursuing the advanced level of scientific research, those disciplines all have very strong research capabilities and extensive academic impact.

1.Objectives

Ph.Ds of the discipline are expected to have a profound knowledge of the cutting-edge research and trend of the field and a solid and extensive grasp of the theoretical and systematic expertise, as are able to complete experiments and studies of the filed independently, to be proficient in the use of computers, able to contribute high-level academic papers and exchange views in international conferences, and to demonstrate rigorous spirits in scientific approaches and independence in scientific pursuits with in-depth studies and innovative achievements, so as to have the competency of undertaking researches and developing projects independently and qualities of being academic leaders or project leaders.

A Survey of China and Comprehensive Chinese are compulsory for international postgraduates, who are required to pass the HSK 3 or equivalent Chinese language test by graduation.

2.Orientations

- 1)Electromagnetic Field and Microwave Technology
- 2)Integrated Circuits and Systems
- 3) Electronic Information Materials and Devices
- 4) Microelectronics and Solid Electronics
- 5)Physical electronics

3.Duration

International students of Ph.D candidates can take 1) full-time training, i.e. the whole progression is done at UESTC, or 2) on-the-job training, i.e. finishing the course work at UESTC and completing the dissertation in their home country, with no less than 1 year to be spent at UESTC for the research work around the dissertation. Either way chosen, the dissertation defense should be done at UESTC.

The supervisor responsibility mechanism is adopted in the education for internationalPh.D candidates. The supervisor is responsible for the student's making of personal study plan, the choice of courses, and the completion of the degree thesis.

The duration set for Ph.D candidates is 3 years full-time. An extension can be applied for by those who cannot finish their courses on time owing to objective causes, yet altogether 6 years is the last due.

4. Progression and Requirements

The minimum total credits for international students of Ph.D candidates is 14, Ph.D candidates should complete the course work of no less than a total of 12 credits (out of which at least 8 should be of the degree course categories), compulsory sections of no less than 2 credits. During the course work, according to specifications by the discipline, the student is to pass examinations held for the degree courses and examinations or assessments held for the other optional courses. Of all the degree courses, common core courses are compulsory. Ph.D candidates are allowed to choose 1~2inter-disciplinary core courses as their degree courses under supervisors' guidance. International students of Chinese language abilities can apply to take courses given in Chinese to local full-time graduate students and acquire corresponding credits if pass.

Those who fail to meet the credit requirements will be denied the thesis defense.

5.Curriculum

Course Categories		Course Number	Course Name	Class Hours	Credits	Semester	Notes
	Common	6900005001	Comprehensive Chinese	60	2	1	Compulsory
	Core Course	6900005002	A Survey of China	40	2	2	Compulsory
Degree		1107016004	Optimization Methods and Applications	50	2.5	1	At least 1
Courses	Major Core	1107016007	Numerical Algebra	50	2.5	2	from 2
	Course	0208096106	Advanced Electromagnetic Field Theory 60 3	1			
		0208096107	Microwave Engineering	40	2	2	
		0108106007	Signal Detection and Estimation	40	2	1	
	TOTAL C	0208096104	RF IC Design	40	2	2	
Non-degree	Elective Major Course	0208096109	Surface and Bulk Acoustic Wave Devices for Telecommunications	40 2	2		
Optional Courses	Course	0208097010	Flexible MEMS Technology and Integration	40	2	2	
	Other	6900005003	Chinese Reading & Writing	60	2	2	
	Elective Course	XX0004XXXX	High-Level International Courses	/	/	1/2	
Compulso	ry Section	6400006003	Academic Activities	0	1	1,2	Compulsory

	6400006004	Research Proposal and Literature Review of the Dissertation	0	0	1,2	
	6400006005	6400006005 Comprehensive Examination for	0	0	1,2	Compulsory
Compulsory Section		Ph.D Candidates				
	6900006001	Chinese Proficiency Assessment	60	0	1,2	
	VV00025VVV	Elective Competence	0	1	1,2	
	XX00025XXX Development Course:	Development Courses				

Directions: All courses, except for the Chinese ones specified by the requirements, are totally given in English.

6. Compulsory Sections

The compulsory sections for international students of Ph.D candidates include five parts, a candidate is required to complete the following aspects:

1)Elective Competence Development Courses: through introducing the academic cutting edge knowledge, culture, arts and sport, etc, such courses are given to improve the Ph.D candidates' comprehensive competence. A candidate should take at least one course and get one credit after assessment.

2)Academic Activities: to enliven academic atmosphere and to further and broaden Ph.D candidates' scope of knowledge, one should attend at least ten academic lectures within and out of UESTC, and fill in the Academic Activities Registration Form and get the official stamp upon attendance. One credit can be granted to the candidate when he/she succeeds in completing the above procedures.

3)Comprehensive Examination for Ph.D. Candidates (hereinafter as CEPC): which is taken upon their completion of all required courses. It mainly tests their understanding of basic theories and professional knowledge, and also checks their mastery of the research directions, of the leading edge, and of the dynamics in relevant fields.

A.Ph.D. candidates should generally take the CEP Cat the end of the first year after enrollment. Those who fail in CEPC will have the opportunity to resit in the next year. If one still fails the resit, then she/he cannot participate in the dissertation defense and will terminate the study.

B. The CEPC is implemented by the Examination Committee (hereinafter as EC), which is composed of three experts designated by the AcademicDegreeEvaluationCommittee of the School. The chairman of EC must be a professor, while the other members being professors or associate professors.

C.The CEPC can integrate written and oral patterns with one-hundred-mark system. The written examination should account for at least 50%.

D.According to the actual situation, each discipline should organize two times of CEPC each year in April and October respectively. Having collected the test questions, test papers, oral test records and comments of the CEPC, the Teaching Affairs Secretary of each school should submit all these materials with the results of CEPC to the Section of Teaching Management in Graduate School for filing and

preservation.

4)The Research Proposal Report and Literature Review of Dissertation (hereinafter as RPRLRD): before making the Research Proposal Report for the dissertation, all Ph.D. candidates should read more than 30 papers in the leading edge of their discipline from the latest literature. Then everyone should finish a literature review report of about 5,000 words as well as the corresponding Research Proposal Report.

5)Chinese Proficiency Assessment: The Ministry of Education requires the Chinese language ability of international graduates' to reach the level 3 based on the International Chinese Proficiency Standards at the time of graduation. Master's/doctoral students are required to undergo a Chinese assessment level 3 during their stay at the university, and those who meet the requirements are eligible to apply for their graduation defense. Chinese Proficiency Assessment is accredited by School of International Education.

7. Degree Thesis

Ph.D Program (for International Students) in Information and Communication Engineering

Information and Communication Engineering of UESTC is the national key discipline, which constituted by 2 sub-disciplines, Communication and Information System, Signal and Information Processing. The disciplines related to Information and Communication Engineering of UESTC are the first batch of disciplines which were authorized to confer doctoral degree and to establish postdoctoral position, and also the first batch of Project 211, Project 985, Double First-Class key disciplines. The discipline was ranked as 2nd in National Discipline Evaluation from Ministry of Education in 2012 and was accredited as A+ in the fourth round of National Discipline Evaluation from Ministry of Education in 2017. The school has 2 academicians of Chinese Academy of Engineering, 8 awardees of National Thousand Talents Program, 2 National Renowned Professors, 5 awardees of Cheung Kong Scholars Program, 2 awardees of National Natural Science Foundation for Distinguished Young Scholars, 9 awardees of Thousand Talent Program for Young Outstanding Scientists and 1 awardees of National Youth Top-notch Talent Support Program. The research team of this discipline enjoys a good reputation both at home and abroad. The discipline has many international first-class academic research and talents cultivation platforms such as National key laboratories, Ministry key laboratories and Overseas Expertise Introduction Project for Discipline Innovation.

The research fields of this discipline are closely related with those of Electronics Science and Technology, Computer Science and Technology, Control Science and Engineering, Instruments Science and Technology.

1.Objectives

Ph.Ds of the discipline are expected to have a profound knowledge of the cutting-edge research and trend of the field and a solid and extensive grasp of the theoretical and systematic expertise, as are able to complete experiments and studies of the filed independently, to know the new technology and development trend in a certain field of information and communication engineering at home and abroad and to solve the academic or technical issues innovatively, to be proficient in the use of computers, able to contribute high-level academic papers and exchange views in international conferences, and to demonstrate rigorous spirits in scientific approaches and independence in scientific pursuits with in-depth studies and innovative achievements, so as to have the competency of undertaking researches and developing projects independently and qualities of being academic leaders or project leaders.

A Survey of China and Comprehensive Chinese are compulsory for international postgraduates, who are required to pass the HSK 3 or equivalent Chinese language test by graduation.

2. Orientations

- 1) Wireless and Mobile Communication System
- 2) Anti-jamming and Secure Communication System
- 3) Radar Detection and Imaging Recognition
- 4) Intelligent Communication Network and Information Processing
- 5) Optical Fiber Sensing and Communication
- 6) Image and Video Processing
- 7) Communication Integrated Circuit and System
- 8) Intelligent Perception and Information System
- 9) Machine Learning and Artificial Intelligence
- 10) Signal and Information Intelligent Processing

3. Duration

International students of Ph.D candidates can take 1) full-time training, i.e. the whole progression is done at UESTC, or 2) on-the-job training, i.e. finishing the course work at UESTC and completing the dissertation in their home country, with no less than 1 year to be spent at UESTC for the research work around the dissertation. Either way chosen, the dissertation defense should be done at UESTC.

The supervisor responsibility mechanism is adopted in the education for international Ph.D candidates. The supervisor is responsible for the student's making of personal study plan, the choice of courses, and the completion of the research report or the degree thesis.

The duration set for Ph.D candidates is 3 years full-time. An extension can be applied for by those who cannot finish their courses on time owing to objective causes, yet altogether 6 years is the last due.

4. Progression and Requirements

The minimum total credits for international students of Ph.D candidates is 14, Ph.D candidates should complete the course work of no less than a total of 12 credits (out of which at least 8 should be of the degree course categories), compulsory sections of no less than 2 credits. During the course work, according to specifications by the discipline, the student is to pass examinations held for the degree courses and examinations or assessments held for the other optional courses. Of all the degree courses, common core courses are compulsory. Ph.D candidates are allowed to choose 1~2 inter-disciplinary core courses as their degree courses under supervisors' guidance. International students of Chinese language abilities can apply to take courses given in Chinese to local full-time graduate students and acquire corresponding credits if pass.

Those who fail to meet the credit requirements will be denied the thesis defense.

5.Curriculum

Course Categories		Course Number	Course Name	Class Hours	Credits	Semester	Notes
	Common	6900005001	Comprehensive Chinese	60	2	1	Commulator
	Core Course	6900005002	A Survey of China	40	2	2	Compulsory
		1107016004	Optimization Methods and Applications	50	2.5	1	At least 1
Degree		1107016007	Numerical Algebra	50	2.5	2	from 2
Courses	Major Core	0108106013	Digital Communications	40	2	2	
	Course	0108106014	Digital Signal Processing	40	2	1	
		0108106020	Fiber Optical Communication	30	1.5	2	
		0808126023	Software Development Technology	40	2	1	
		0108106007	Signal Detection and Estimation	40	2	1	
		0108107013	Fuzzy logic	40	2	2	
		0108107026	Optical Fiber Technology	40	2	1	
	Flori	0108107027	Computational Intelligence Methods and Application	30 1.5 40 2	2		
Non-degree Optional	Elective Major Course	0108107032	Applied Matrix Methods for Signal Processing & Data Analysis		2		
Courses		0208096101	IC Design	40	2	2	
		0808126007	Big Data Analysis and Mining	40 2 40 2	2	2	
		1008256008	Theories and Methods of Systems Engineering		1		
	Other Elective Course	6900005003	Chinese Reading & Writing	60	2	2	
	1600006011	1600006011	Thesis Proposal and Literature Review	0	1	1,2	
Compulsory Section		6400006003	Academic Activities	0	1	1,2	
		6400006005	Comprehensive Examination for Ph.D Candidates	0	0	1,2	Compulsory
		6900006001	Chinese Proficiency Assessment	60	0	1,2	
		XX00025XXX	Elective Competence Development Courses	0	1	1,2	

Directions: All courses, except for the Chinese ones specified by the requirements, are totally given in English.

6. Compulsory Sections

The compulsory sections for international students of Ph.D candidates include five parts. A candidate is required to complete the following aspects:

1)Elective Competence Development Courses: through introducing the academic cutting edge knowledge, culture and arts, etc, such courses are given to improve the Ph.D candidates' comprehensive competence. A candidate should take at least one course and get one credit after assessment.

2)Academic Activities: to enliven academic atmosphere and to further and broaden Ph.D candidates' scope of knowledge, one should attend at least ten academic lectures within and out of UESTC, and fill in the Academic Activities Registration Form and get the official stamp upon attendance. One credit can be granted to the candidate when he/she succeeds in completing the above procedures.

3)Comprehensive Examination for Ph.D. Candidates (hereinafter as CEPC): which is taken upon their completion of all required courses. It mainly tests their understanding of basic theories and professional knowledge, and also checks their mastery of the research directions, of the leading edge, and of the dynamics in relevant fields.

A. Ph.D. candidates should generally take the CEPC at the end of the first year after enrollment. Those who fail in CEPC will have the opportunity to resit in the next year. If one still fails the resit, then she/he cannot participate in the dissertation defense and will terminate the study.

B.The CEPC is implemented by the Examination Committee (hereinafter as EC), which is composed of three experts designated by the Academic Degree Evaluation Committee of the School. The chairman of EC must be a professor, while the other members being professors or associate professors.

C.The CEPC can integrate written and oral patterns with one-hundred-mark system. The written examination should account for at least 50%.

D. According to the actual situation, each discipline should organize two times of CEPC each year in April and October respectively. Having collected the test questions, test papers, oral test records and comments of the CEPC, the Teaching Affairs Secretary of each school should submit all these materials with the results of CEPC to the Section of Teaching Management in Graduate School for filing and preservation.

4)The Research Proposal Rand Literature Review of the Dissertation (hereinafter as RPRLRD): before making the Research Proposal for the dissertation, all Ph.D. candidates should read more than 30 papers in the leading edge of their discipline from the latest literature. Then everyone should finish a literature review report of about 5,000 words as well as the corresponding Research Proposal.

5)Chinese Proficiency Assessment: The Ministry of Education requires the Chinese language ability of international graduates to reach the level 3 based on the International Chinese Proficiency Standards at the time of graduation. Master's/doctoral students are required to undergo a Chinese assessment level 3 during

their stay at the university, and those who meet the requirements are eligible to apply for their graduation defense. Chinese Proficiency Assessment is accredited by School of International Education.

7.Degree Thesis

As for problems regarding the dissertation defense, from its application, evaluation and holding to the final award of the degree, all shall refer to UESTC Regulations for Postgraduate Degree Conferring.

Ph.D Program (for International Students) in Control Science and Engineering

Control Science and Engineering a discipline related to research of control theory, method, technology and engineering application. Based on control theory, system theory and information theory, control science deals with mutual problems in various application areas, which are building system model, analyzing its inner and outer information, adopting control methods. The program has an obvious characteristic in combination of theory research and engineering application, disciplinary crossing and integration, civil-military integration technology, and plays an indispensable role in national economy development and national security.

This program is a key discipline in Sichuan Province with abundant teaching resources. After many years' development, the program has been expanded into several research areas including complex system control and optimization, new energy system control technology, computer vision and pattern recognition, robot technology and system, etc. The development of this program brings great benefits to the society and country, and makes outstanding contribution to national defense, social service, talent training and so on.

1.Objectives

Abide by the laws and have good moral character. Master solid basic theories and knowledge. Able to communicate in Chinese. Able to make scientific research independently and creatively. Good and rigorous research spirit. Able to make creative achievement in scientific research.

2. Orientations

- 1)Complex System and Intelligent Information Processing
- 2) New Energy System Control Technology
- 3)Pattern Recognition and Intelligent System
- 4) Measurement and Control Communication and Navigation Control
- 5) Detection Technology and Automation Device

3. Duration

The duration set for Ph.D candidates is 3 years full-time. An extension can be applied for by those who cannot finish their courses on time owing to objective causes, yet altogether 6 years is the last due.

4.Progression and Requirements

International students of Ph.D candidates can take 1) full-time training, i.e. the whole progression is done at UESTC, or 2) on-the-job training, i.e. finishing the course work at UESTC and completing the dissertation in their home country, with no less than 1 year to be spent at UESTC for the research work

around the dissertation. Either way chosen, the dissertation defense should be done at UESTC.

The supervisor responsibility mechanism is adopted in the education for international Ph.D candidates. The supervisor is responsible for the student's making of personal study plan, the choice of courses, and the completion of the research report or the degree thesis.

The minimum total credits for international students of Ph.D candidates is 14, Ph.D candidates should complete the course work of no less than a total of 12 credits (out of which at least 8 should be of the degree course categories), compulsory sections of no less than 2 credits. During the course work, according to specifications by the discipline, the student is to pass examinations held for the degree courses and examinations or assessments held for the other optional courses. Of all the degree courses, common core courses are compulsory. Ph.D candidates are allowed to choose 1~2 inter-disciplinary core courses as their degree courses under supervisors' guidance. International students of Chinese language abilities can apply to take courses given in Chinese to local full-time graduate students and acquire corresponding credits if pass.

A Survey of China and Comprehensive Chinese are compulsory for international postgraduates, who are required to pass the HSK 3 or equivalent Chinese language test by graduation.

Those who fail to meet the credit requirements will be denied the thesis defense.

5.Curriculum

Course (Categories	Course Number	Course Name	Class Hours	Credits	Semester	Notes
	Common	6900005001	Comprehensive Chinese	60	2	1	Commilean
	Core Course	6900005002	A Survey of China	40	2	2	Compulsory
Degree		1107016004	Optimization Methods and Applications	Applications 50 2.5	2.5	1	At least 1
Courses	Major Core	1107016007	Numerical Algebra	50	2.5	2	from 2
	Course	0108106014	Digital Signal Processing	40	2	1	
		0608116010	Computer Vision	40	2	1	
		0608116011	Linear System Theory	50	2.5	1	
	Elective	0608117003	Performance Evaluation and Optimization for Complex Systems	20	1	2	
Non-degree	Major Course	0808126020	Embedded Operating System and Application	40	2	2	
Optional Courses		1008256008	Theories and Methods of Systems Engineering	40	2	1	
	Other	6900005003	Chinese Reading & Writing	60	2	2	
	Elective Course	XX0004XXXX	High-Level International Courses	/	/	1/2	

	6400006003	Academic Activities	0	1	1,2	-
	6400006004	Research Proposal and Literature	0	0	1.2	
	040000004	Review of the Dissertation	U	V	1,2	
	6400006005	Comprehensive Examination for	0	0	1,2	
Compulsory Section	0400000003	Ph.D Candidates		1,2	Compulsory	
	640007006	Mid term evaluation	0	0	1,2	
	6900006001 Chinese Proficiency Assessment	60	0	1,2		
	XX00025XXX Elective Competence Development Courses	0	1	1.2		
		Development Courses	U		1,2	

Directions: All courses, except for the Chinese ones specified by the requirements, are totally given in English.

6. Compulsory Sections

The compulsory sections for international students of Ph.D candidates include six parts, a candidate is required to complete the following aspects:

1)Elective Competence Development Courses: through introducing the academic cutting edge knowledge, culture, arts and sport, etc, such courses are given to improve the Ph.D candidates' comprehensive competence. A candidate should take at least one course and get one credit after assessment.

2)Academic Activities: to enliven academic atmosphere and to further and broaden Ph.D candidates' scope of knowledge, one should attend at least ten academic lectures within and out of UESTC, and fill in the Academic Activities Registration Form and get the official stamp upon attendance. One credit can be granted to the candidate when he/she succeeds in completing the above procedures.

3)Comprehensive Examination for Ph.D. Candidates (hereinafter as CEPC): which is taken upon their completion of all required courses. It mainly tests their understanding of basic theories and professional knowledge, and also checks their mastery of the research directions, of the leading edge, and of the dynamics in relevant fields.

A.Ph.D. candidates should generally take the CEPC at the end of the first year after enrollment. Those who fail in CEPC will have the opportunity to resit in the next year. If one still fails the resit, then she/he cannot participate in the dissertation defense and will terminate the study.

B.The CEPC is implemented by the Examination Committee (hereinafter as EC), which is composed of three experts designated by the Academic Degree Evaluation Committee of the School. The chairman of EC must be a professor, while the other members being professors or associate professors.

C.The CEPC can integrate written and oral patterns with one-hundred-mark system. The written examination should account for at least 50%.

D.According to the actual situation, each discipline should organize two times of CEPC each year in April and October respectively. Having collected the test questions, test papers, oral test records and comments of the CEPC, the Teaching Affairs Secretary of each school should submit all these materials with the results of CEPC to the Section of Teaching Management in Graduate School for filing and preservation.

4)The Research Proposal Report and Literature Review of Dissertation (hereinafter as RPRLRD): before making the Research Proposal Report for the dissertation, all Ph.D. candidates should read more than 30 papers in the leading edge of their discipline from the latest literature. Then everyone should finish a literature review report of about 5,000 words as well as the corresponding Research Proposal Report.

5)Chinese Proficiency Assessment: The Ministry of Education requires the Chinese language ability of international graduates' to reach the level 3 based on the International Chinese Proficiency Standards at the time of graduation. Master's/doctoral students are required to undergo a Chinese assessment level 3 during their stay at the university, and those who meet the requirements are eligible to apply for their graduation defense. Chinese Proficiency Assessment is accredited by School of International Education.

6)Mid-term Report on Thesis Work: All Ph.D. candidates are obliged to provide written progress reports on their dissertations 12 months after they begin. These reports will be evaluated and approved by experts before the candidates can move further with their dissertations.

7. Degree Thesis

Ph.D Program (for International Students) in Computer Science and Technology

With its postdoctoral research station set up as early as in 1999, the discipline enjoys a rather strong comprehensive advantages and has demonstrated great competence in fundamental and applied researches. With its substantially enhanced research abilities, the discipline is drawing close to the national first level as a whole with part of its achievements coming up as the most advanced in the country. Altogether, cheerful results have been achieved in aspects of discipline orientations, academic teams, discipline platform constructions, scientific researches, cultivation of talents and academic exchanges.

1.Objectives

Ph.Ds of the discipline are expected to have a solid knowledge of fundamental mathematics, a systematic knowledge of the discipline's covered areas, and a profound knowledge of their orientations. With their vigorous consciousness of academic pursuits, acute awareness of innovation and an in-depth understanding of the present situations, the developing trends and the cutting-edge of the discipline, they are enabled to contribute high-level academic papers and exchange research concerns in international conferences, to carry out independent researches on fundamental theories and front issues of computer science with internationally acknowledged innovative achievements, and to undertake designing and developing large scale software or significant computer applied projects, and they are thus furnished with the qualities of being an academic leader or a project director and the qualifications for teaching in institutes of higher education.

International doctoral candidates are also expected to have a basic knowledge of Chinese history and culture, be capable of reading Chinese scientific literatures in simple Chinese, and communicating with basic skills in the Chinese language. A Survey of China and Comprehensive Chinese are compulsory for international postgraduates, who are required to pass the HSK 3 or equivalent Chinese language test by graduation.

2. Orientations

- 1)Information Security
- 2)Digital Media Technology
- 3)Embedded System
- 4)Computer Networks
- 5)Artificial Intelligence
- 6)Cloud Computing

3.Duration

The duration set for Ph.D candidates is 3 years full-time. An extension can be applied for by those who cannot finish their courses on time owing to objective causes, yet altogether 6 years is the last due.

International students of Ph.D candidates can take 1) full-time training, i.e. the whole progression is done at UESTC, or 2) on-the-job training, i.e. finishing the course work at UESTC and completing the dissertation in their home country, with no less than 1 year to be spent at UESTC for the research work around the dissertation. Either way chosen, the dissertation defense should be done at UESTC.

The supervisor responsibility mechanism is adopted in the education for international Ph.D candidates. The supervisor is responsible for the student's making of personal study plan, the choice of courses, and the completion of the degree thesis.

4. Progression and Requirements

The minimum total credits for international students of Ph.D candidates is 14, Ph.D candidates should complete the course work of no less than a total of 12 credits (out of which at least 8 should be of the degree course categories), compulsory sections of no less than 2 credits. During the course work, according to specifications by the discipline, the student is to pass examinations held for the degree courses and examinations or assessments held for the other optional courses. Of all the degree courses, common core courses are compulsory. Ph.D candidates are allowed to choose 1~2 inter-disciplinary core courses as their degree courses under supervisors' guidance. International students of Chinese language abilities can apply to take courses given in Chinese to local full-time graduate students and acquire corresponding credits if pass.

Those who fail to meet the credit requirements will be denied the thesis defense.

5.Curriculum

Course (Categories	Course Number	Course Name	Class Hours	Credits	Semester	Notes
	Common	6900005001	Comprehensive Chinese	60	2	1	
	Core Course	6900005002	A Survey of China	40	2	2	Compulsory
		1107016004	Optimization Methods and Applications	50	2.5	1	At least 1
		1107016007	Numerical Algebra	50	2.5	2	from 2
Degree		0808126007	Big Data Analysis and Mining	40	2	2	
Courses	Major Core	0808126019	Mobile Computing	40	2	2	
	Course	0808126020	Embedded Operating System and Application	40	2	2	
		0808126021	The Design of Cryptographic Algorithm	40	2	2	
		0808126022	Network and Information Security	60	3	1	

			1				
		0808126023	Software Development	40	2	1	
			Technology				
Degree	Major Core	0808126024	Multimedia Technology and	40	2	1	
Courses	Course	0000120024	Applications			1	
		0808126094	Mathematical Foundations of	40	2	1	
			Computer Science			1	
		0808127005	Cloud Computing	20	1	1	
		0808127020	Foundation of Cryptography	40	2	2	
	Elective	0808127030	Operating System: Structure and Applications	40	2	2	
Non-degree	Major Course	0808127043	Advanced Network Computing	20	1	1	
Optional	Course	0808127055	Frontiers in Algorithms	20	1	2	
Courses		0808397009	Data Recovery and Digital	20			
			Forensics	20	1	1	
	Other	6900005003	Chinese Reading & Writing	60	2	2	
	Elective	XX0004XXXX	High-Level International Courses	/	/	1/2	
	Course	7700047777	Tright-Level international Courses	,	,	1/2	
		6400006003	Academic Activities	0	1	1,2	
		6400006004	Research Proposal and Literature	0	0	1.2	
		040000004	Review of the Dissertation	U	0	1,2	
Compulsory Section		6400006005	Comprehensive Examination for	0	0	1,2	Compulsory
Compulsor	ry section	040000003	Ph.D Candidates	0	U	1,2	Compulsory
		6900006001	Chinese Proficiency Assessment	60	0	1,2	
		XX00025XXX	Elective Competence	0	1	1,2	
		AAUUU23AAA	Development Courses	U	1	1,4	

Directions: All courses, except for the Chinese ones specified by the requirements, are totally given in English.

6. Compulsory Sections

The compulsory sections for international students of Ph.D candidates include five parts, a candidate is required to complete the following aspects:

1)Elective Competence Development Courses: through introducing the academic cutting edge knowledge, culture, arts and sport, etc, such courses are given to improve the Ph.D candidates' comprehensive competence. A candidate should take at least one course and get one credit after assessment.

2)Academic Activities: to enliven academic atmosphere and to further and broaden Ph.D candidates' scope of knowledge, one should attend at least ten academic lectures within and out of UESTC, and fill in the Academic Activities Registration Form and get the official stamp upon attendance. One credit can be granted to the candidate when he/she succeeds in completing the above procedures.

3)Comprehensive Examination for Ph.D. Candidates (hereinafter as CEPC): which is taken upon their completion of all required courses. It mainly tests their understanding of basic theories and professional

knowledge, and also checks their mastery of the research directions, of the leading edge, and of the dynamics in relevant fields.

A.Ph.D. candidates should generally take the CEPC at the end of the first year after enrollment. Those who fail in CEPC will have the opportunity to resit in the next year. If one still fails the resit, then she/he cannot participate in the dissertation defense and will terminate the study.

B.The CEPC is implemented by the Examination Committee (hereinafter as EC), which is composed of three experts designated by the Academic Degree Evaluation Committee of the School. The chairman of EC must be a professor, while the other members being professors or associate professors.

C.The CEPC can integrate written and oral patterns with one-hundred-mark system. The written examination should account for at least 50%.

D.According to the actual situation, each discipline should organize two times of CEPC each year in April and October respectively. Having collected the test questions, test papers, oral test records and comments of the CEPC, the Teaching Affairs Secretary of each school should submit all these materials with the results of CEPC to the Section of Teaching Management in Graduate School for filing and preservation.

4)The Research Proposal Report and Literature Review of Dissertation (hereinafter as RPRLRD): before making the Research Proposal Report for the dissertation, all Ph.D. candidates should read more than 30 papers in the leading edge of their discipline from the latest literature. Then everyone should finish a literature review report of about 5,000 words as well as the corresponding Research Proposal Report.

5)Chinese Proficiency Assessment: The Ministry of Education requires the Chinese language ability of international graduates' to reach the level 3 based on the International Chinese Proficiency Standards at the time of graduation. Master's/doctoral students are required to undergo a Chinese assessment level 3 during their stay at the university, and those who meet the requirements are eligible to apply for their graduation defense. Chinese Proficiency Assessment is accredited by School of International Education.

7. Degree Thesis

All degree thesis problems shall refer to UESTC Regulations for Postgraduate Degree Conferring.

Ph.D Program (for International Students) in Biomedical Engineering

Biomedical Engineering (BME) is an inter-disciplinary field involving the subject of Life Science, Cognitive Science and Information Science. BME in UESTC started from the year of 1986. During the discipline evaluation organized by Ministry of Education in the year of 2017, BME in UESTC ranks B+ among the BME disciplines of all the main universities in China. There are 40+ full and associate professors in BME of UESTC, including academician of Chinese academy of sciences, AIMBE Fellow, IET Fellow, etc. and 6 full-time foreign professors. The current experimental conditions include the Key Laboratory of Neuroinformation of Ministry of Education, and other Sichuan Province supported Key Laboratories, which are equipped with 3.0T MR, EGI and NeuroScan EEG workstations, etc. Altogether, cheerful outcomes have been achieved in the areas of brain imaging techniques and applications, visual electrophysiology and computational modeling, biomedical signal processing, medical imaging and processing, system biology, plant molecular genetics, nanomedicine, etc.

1.Objectives

Ph.Ds of the BME discipline are expected to have a profound knowledge of the cutting-edge research and trend of the fields of biomedicine and information techniques and a solid and extensive grasp of the theoretical and systematic expertise, as are able to complete experiments and studies of the field independently.

A Survey of China and Comprehensive Chinese are compulsory for international postgraduates, who are required to pass the HSK 3 or equivalent Chinese language test by graduation.

2.Orientations

1)Brain Functions and Neural Information Engineering (EEG and fMRI Data Processing, Neural Electrophysiology, Brain-Computer Interface, Brain-inspired Intelligence, etc)

- 2) Medical Instruments, Medical Image and Signal Processing
- 3)Bioinformatics
- 4)Neurobiology
- 5)Cell Biology
- 6)Biochemistry and Molecular Neurobiology

3.Duration

The duration set for Ph.D candidates is 3 years full-time. An extension can be applied for by those who cannot finish their courses on time owing to certain objective causes, yet altogether 6 years are the last due.

4. Progression and Requirements

International students of Ph.D candidates can take 1) full-time training, i.e. the whole progression is done at UESTC, or 2) on-the-job training, i.e. finishing the course work at UESTC and completing the dissertation in their home country, with no less than 1 year to be spent at UESTC for the research work around the dissertation. Either way chosen, the dissertation defense should be done at UESTC.

The supervisor responsibility mechanism is adopted in the education for international Ph.D candidates. The supervisor is responsible for the student's making of personal study plan, the choice of courses, and the completion of the degree thesis.

The minimum total credits for international students of Ph.D candidates is 14, Ph.D candidates should complete the course work of no less than a total of 12 credits (out of which at least 8 should be of the degree course categories), compulsory sections of no less than 2 credits. During the course work, according to specifications by the discipline, the student is to pass examinations held for the degree courses and examinations or assessments held for the other optional courses. Of all the degree courses, common core courses are compulsory. Ph.D candidates are allowed to choose 1~2 inter-disciplinary core courses as their degree courses under supervisors' guidance. International students of Chinese language abilities can apply to take courses given in Chinese to local full-time graduate students and acquire corresponding credits if pass.

Those who fail to meet the credit requirements will be denied to enter into the phase of thesis defense.

5. Curriculum

Course (Categories	Course Number	Course Name	Class Hours	Credits	Semester	Notes
	Common	6900005001	Comprehensive Chinese	60	2	1	Commulatory
	Core Course	6900005002	A Survey of China	40	2	2	Compulsory
	Core Course	1107016004	Optimization Methods and Applications	50	2.5	1	At least 1
Degree		1107016007	Numerical Algebra	50	2.5	2	from 2
Courses	Courses	1404026004	Cognitive neuroscience	40	2	1	
	Major Core	1407106009	Advanced Molecular Biology	40	2	1	
	Course	1407106010	Bioinformatics	40	2	1	
		1408316004	Fundamentals of Brain Science	40	2	2	
	Elective	1404026006	Psychophysical Experiments	40	2	2	
N 1	Major	1408316005	Advances in Brain Imaging	40	2	2	
Non-degree Optional	Course	1408316006	Biomedical Statistics	40	2	2	
Courses	Other	6900005003	Chinese Reading & Writing	60	2	2	
	Elective Course	XX0004XXXX	High-Level International Courses	/	/	1/2	

	6400006003	Academic Activities	0	1	1,2	
	6400006004	Research Proposal and Literature	0	0	1,2	Compulsory
	040000004	Review of the Dissertation	U	Ů	1,2	
Compulsory Section	6400006005	Comprehensive Examination for	0	0	1,2	
Compaisory Section		Ph.D Candidates	U			
	XX00025XXX	Elective Competence	0	1	1,2	
		Development Courses	0	1	1,2	
	6900006001	Chinese Proficiency Assessment	60	0	1,2	

Directions: All courses, except for the Chinese ones specified by the requirements, are totally given in English.

6. Compulsory Sections

The compulsory sections for international students of Ph.D candidates include five parts, a candidate is required to complete the following aspects:

1)Elective Competence Development Courses: through introducing the academic cutting edge knowledge, culture, arts and sport, etc, such courses are given to improve the Ph.D candidates' comprehensive competence. A candidate should take at least one course and get one credit after assessment.

2)Academic Activities: to enliven academic atmosphere and to further and broaden Ph.D candidates' scope of knowledge, one should attend at least ten academic lectures within and out of UESTC, and fill in the Academic Activities Registration Form and get the official stamp upon attendance. One credit can be granted to the candidate when he/she succeeds in completing the above procedures.

3)Comprehensive Examination for Ph.D. Candidates (hereinafter as CEPC): which is taken upon their completion of all required courses. It mainly tests their understanding of basic theories and professional knowledge, and also checks their mastery of the research directions, of the leading edge, and of the dynamics in relevant fields.

A. Ph.D. candidates should generally take the CEPC at the end of the first year after enrollment. Those who fail in CEPC will have the opportunity to resit in the next year. If one still fails the resit, then she/he cannot participate in the dissertation defense and will terminate the study.

B.The CEPC is implemented by the Examination Committee (hereinafter as EC), which is composed of three experts designated by the Academic Degree Evaluation Committee of the School. The chairman of EC must be a professor, while the other members being professors or associate professors.

C.The CEPC can integrate written and oral patterns with one-hundred-mark system. The written examination should account for at least 50%.

D.According to the actual situation, each discipline should organize two times of CEPC each year in April and October respectively. Having collected the test questions, test papers, oral test records and comments of the CEPC, the Teaching Affairs Secretary of each school should submit all these materials

with the results of CEPC to the Section of Teaching Management in Graduate School for filing and preservation.

4)The Research Proposal Report and Literature Review of Dissertation (hereinafter as RPRLRD): before making the Research Proposal Report for the dissertation, all Ph.D. candidates should read more than 30 papers in the leading edge of their discipline from the latest literature. Then everyone should finish a literature review report of about 5,000 words as well as the corresponding Research Proposal Report.

5)Chinese Proficiency Assessment: The Ministry of Education requires the Chinese language ability of international graduates' to reach the level 3 based on the International Chinese Proficiency Standards at the time of graduation. Doctoral students are required to undergo a Chinese assessment level 3 during their stay at the university, and those who meet the requirements are eligible to apply for their graduation defense. Chinese Proficiency Assessment is accredited by School of International Education.

7. Degree Thesis

All degree thesis related issues shall refer to UESTC Regulations for Postgraduate Degree Conferring.

The requirements for publishing academic papers before the phase of thesis defense shall refer to UESTC Regulations for Requirements for Publishing Academic Papers for International Students.

Ph.D Program (for International Students) in Software Engineering

As software industry becomes a pillar industry in national economy, discipline of Software Engineering becomes one of the fast developing disciplines in Information Technology. The development in this field has a wind-range, multidimensional, multilayer and interdisciplinary architecture. The knowledge in this field includes software requirement, software design, software test, software maintenance, software configuration management, software project management, software ethics and laws, software security and software quality. It is also connected with various disciplines such as system engineering, domain engineering, digital technology, embedded system, network and information security, system management and support and marketing.

1.Objectives

The PhD candidates of this discipline are selected from high-level talents in the field of software engineering, according to development of software technology and demand of software industry.

PhD Graduates of the discipline are expected to have a solid knowledge of the fundamentals in the field of software engineering. They are with comprehensive quality and able to carry out researches independently in the field. They are expected to achieve internationally acknowledged research results. They have broad academic visions, innovation consciousness, and in-depth understanding of present situations, developing trends and cutting-edge of the discipline. They are able to write academic papers in English and give lectures at international academic conferences. They can undertake the task of designing and developing large scale software projects. They are qualified as a teacher at institutes of higher education.

2. Orientations

- 1)Network Security
- 2)Real-time computing
- 3)Intelligent computing
- 4)Software theory

3.Duration

The duration set for Ph.D candidates is 3 years full-time. An extension can be applied for by those who cannot finish their courses on time owing to objective causes, yet altogether 6 years is the last due.

4. Progression and Requirements

International students of Ph.D candidates can take 1) full-time training, i.e. the whole progression is

done at UESTC, or 2) on-the-job training, i.e. finishing the course work at UESTC and completing the dissertation in their home country, with no less than 1 year to be spent at UESTC for the research work around the dissertation. Either way chosen, the dissertation defense should be done at UESTC.

The supervisor responsibility mechanism is adopted in the education for international Ph.D candidates. The supervisor is responsible for the student's making of personal study plan, the choice of courses, and the completion of the research report or the degree thesis.

The minimum total credits for international students of Ph.D candidates is 14, Ph.D candidates should complete the course work of no less than a total of 12 credits (out of which at least 8 should be of the degree course categories), compulsory sections of no less than 2 credits. During the course work, according to specifications by the discipline, the student is to pass examinations held for the degree courses and examinations or assessments held for the other optional courses. Of all the degree courses, common core courses are compulsory. Ph.D candidates are allowed to choose 1~2 inter-disciplinary core courses as their degree courses under supervisors' guidance. A Survey of China and Comprehensive Chinese are compulsory for international postgraduates, Who are required to pass the HSK 5 or equivalent Chinese Language Test by graduation. Those who fail to meet the credit requirements will be denied the thesis defense.

5.Curriculum

Course (Categories	Course Number	Course Name	Class Hours	Credits	Semester	Notes
	Common	6900005001	Comprehensive Chinese	60	2	1	C1
	Core Course	6900005002	A Survey of China	40	2	2	Compulsory
Dagrag		1107016004	Optimization Methods and Applications	50	2.5	1	At least 1
Degree Courses	Major Coro	1107016007	Numerical Algebra	50	2.5	2	from 2
Courses	Major Core Course	0908356004	Software Architecture Model and Design	40	2	2	
		0908356009	Fundamentals of Network Computing	40	2	1	
	Elective	0908356010	Network Security: Theory and Practice	40	2	1	
Non-degree	Major Course	0908357012	New Theory and Practice of Database	40	2	1	
Optional Courses		0908357014	Data Science and Application	40	2	2	
Courses	Other Elective Course	6900005003	Chinese Reading & Writing	60	2	2	
		6400006003	Academic Activities	0	1	1,2	
Compulsory Section		6400006004	Research Proposal and Literature Review of the Dissertation	0	0	1,2	Compulsory

	6400006005	Comprehensive Examination for Ph.D Candidates	0	0	1,2	
Compulsory Section	6900006001	Chinese Proficiency Assessment	60	0	1,2	Compulsory
	XX00025XXX	Elective Competence	0	1	1,2	
		Development Courses				

Directions: All courses, except for the Chinese ones specified by the requirements, are totally given in English.

6. Compulsory Sections

The compulsory sections for international students of Ph.D candidates include five parts, a candidate is required to complete the following aspects:

- 1) Elective Competence Development Courses: through introducing the academic cutting edge knowledge, culture, arts and sport, etc, such courses are given to improve the Ph.D candidates' comprehensive competence. A candidate should take at least one course and get one credit after assessment.
- 2)Academic Activities: to enliven academic atmosphere and to further and broaden Ph.D candidates' scope of knowledge, one should attend at least ten academic lectures within and out of UESTC, and fill in the Academic Activities Registration Form and get the official stamp upon attendance. One credit can be granted to the candidate when he/she succeeds in completing the above procedures.
- 3)Chinese Proficiency Assessment: The Ministry of Education requires the Chinese language ability of international graduates' to reach the level 3 based on the International Chinese Proficiency Standards at the time of graduation. Master's/doctoral students are required to undergo a Chinese assessment level 3 during their stay at the university, and those who meet the requirements are eligible to apply for their graduation defense. Chinese Proficiency Assessment is accredited by School of International Education.
- 4)Comprehensive Examination for Ph.D. Candidates (hereinafter as CEPC): which is taken upon their completion of all required courses. It mainly tests their understanding of basic theories and professional knowledge, and also checks their mastery of the research directions, of the leading edge, and of the dynamics in relevant fields.
- A. Ph.D. candidates should generally take the CEPC at the end of the first year after enrollment. Those who fail in CEPC will have the opportunity to resit in the next year. If one still fails the resit, then she/he cannot participate in the dissertation defense and will terminate the study.
- B.The CEPC is implemented by the Examination Committee (hereinafter as EC), which is composed of three experts designated by the Academic Degree Evaluation Committee of the School. The chairman of EC must be a professor, while the other members being professors or associate professors.
- C.The CEPC can integrate written and oral patterns with one-hundred-mark system. The written examination should account for at least 50%.
 - D. According to the actual situation, each discipline should organize two times of CEPC each year in

April and October respectively. Having collected the test questions, test papers, oral test records and comments of the CEPC, the Teaching Affairs Secretary of each school should submit all these materials with the results of CEPC to the Section of Teaching Management in Graduate School for filing and preservation.

5)The Research Proposal Report and Literature Review of Dissertation (hereinafter as RPRLRD): before making the Research Proposal Report for the dissertation, all Ph.D. candidates should read more than 30 papers in the leading edge of their discipline from the latest literature. Then everyone should finish a literature review report of about 5,000 words as well as the corresponding Research Proposal Report.

7.Degree Thesis

All degree thesis problems shall refer to UESTC Regulations for Postgraduate Degree Conferring.

Ph.D Program (for International Students) in Management Science and Engineering

Ph.D program in the discipline of Management Science and Engineering is focused on the integration of management knowledge and skills and modern information technologies and devoted to taking advantage of the University's superiority in scientific researches and resources in the field of information science and technology to better the program, as can be best reflected by the students' accomplishment and competency. Taking the cultivation of multidisciplinary and creative management experts with an international perspective and a command of modern management ideas and methods as its mission, the program, after more than a decade's continuous efforts, has distinguished itself by clarified training targets, distinct training conceptions and characteristic modules.

1.Objectives

Ph.D candidates of the discipline are expected to have solid foundation in mathematics and statistics as well as in-depth theoretical background in and systematic knowledge of management science, economics and finance. They are to be familiar with fundamental system theories and engineering as well as the current application of computer system and network. With a profound knowledge of Chinese cultures, they are to be able to exchange ideas in Chinese. Empowered with skills in conducting researches on fundamental theories and cutting-edge issues in the field independently, they are to be qualified for positions such as teaching, researching, managing and industry planning at institutes of higher education, enterprises and government departments.

2.Orientations

- 1)Supply Chain
- 2)Information Management and Data Mining
- 3)E-Business
- 4)Financial Engineering

3.Duration

The duration set for Ph.D candidates is 3 years full-time. An extension can be applied for by those who cannot finish their courses on time owing to objective causes, yet altogether 6 years is the last due.

4. Progression and Requirements

International students of Ph.D candidates can take 1) full-time training, i.e. the whole progression is done at UESTC, or 2) on-the-job training, i.e. finishing the course work at UESTC and completing the dissertation in their home country, with no less than 1 year to be spent at UESTC for the research work

around the dissertation. Either way chosen, the dissertation defense should be done at UESTC.

The supervisor responsibility mechanism is adopted in the education for international Ph.D candidates. The supervisor is responsible for the student's making of personal study plan, the choice of courses, and the completion of the research report or the degree thesis.

The minimum total credits for international students of Ph.D candidates is 16, Ph.D candidates should complete the course work of no less than a total of 14 credits (out of which at least 10 should be of the degree course categories), compulsory sections of no less than 2 credits. During the course work, according to specifications by the discipline, the student is to pass examinations held for the degree courses and examinations or assessments held for the other optional courses. Of all the degree courses, common core courses are compulsory; at least one in core courses should be taken. Ph.D candidates are allowed to choose 1~2 inter-disciplinary core courses as their degree courses under supervisors' guidance. Degree courses can be taken to substitute non-degree courses, but not vice versa. International students of Chinese language abilities can apply to take courses given in Chinese to local full-time graduate students and acquire corresponding credits if pass.

Those who fail to meet the credit requirements will be denied the thesis defense.

5. Curriculum

Course (Categories	Course Number	Course Name	Class Hours	Credits	Semester	Notes
	Common	6900005001	Comprehensive Chinese	60	2	1	Compulsory
	Core Course	6900005002	A Survey of China	40	2	2	Compulsory
Degree		1107016004	Optimization Methods and Applications	50	2.5	1	At least 1
Courses	Major Core	1107016007	Numerical Algebra	50	2.5	2	from 2
	Course	1502026011	Business Statistics	40	2.5	1	
		1512017012	Service Management	24	1.5	1	
	Elective	1502517005	Finance	40	2.5	2	
		1512017010	Supply Chain Management	40	2.5	1	
		1512017011	Data Mining and Information Management	40	2.5	1	
Non-degree Optional	Major Course	1512017016	Management Scinece Research Methods	24	1.5	2	
Courses		1512028006	Research Topics on Innovation and Entrepreneurship Management	40	2.5	2	
	Other Elective Course	6900005003	Chinese Reading & Writing	60	2	2	

Ph.D Program (for International Students) in Management Science and Engineering

Compulsory Section	6400006003	Academic Activities	0	1	1,2	
	6400006004	Research Proposal and Literature Review of the Dissertation	0	0	1,2	
	6400006005	Comprehensive Examination for Ph.D Candidates	0	0	1,2	Compulsory
	6900006001	Chinese Proficiency Assessment	60	0	1,2	1
	XX00025XXX	Elective Competence Development Courses	0	1	1,2	

Directions: All courses, except for the Chinese ones specified by the requirements, are totally given in English.

6. Compulsory Sections

The compulsory sections for international students of Ph.D candidates include five parts, a candidate is required to complete the following aspects:

1)Elective Competence Development Courses: through introducing the academic cutting edge knowledge, culture, arts and sport, etc, such courses are given to improve the Ph.D candidates' comprehensive competence. A candidate should take at least one course and get one credit after assessment.

2)Academic Activities: to enliven academic atmosphere and to further and broaden Ph.D candidates' scope of knowledge, one should attend at least ten academic lectures within and out of UESTC, and fill in the Academic Activities Registration Form and get the official stamp upon attendance. One credit can be granted to the candidate when he/she succeeds in completing the above procedures.

3)Comprehensive Examination for Ph.D. Candidates (hereinafter as CEPC): which is taken upon their completion of all required courses. It mainly tests their understanding of basic theories and professional knowledge, and also checks their mastery of the research directions, of the leading edge, and of the dynamics in relevant fields.

A.Ph.D. candidates should generally take the CEPC at the end of the first year after enrollment. Those who fail in CEPC will have the opportunity to resit in the next year. If one still fails the resit, then she/he cannot participate in the dissertation defense and will terminate the study.

B.The CEPC is implemented by the Examination Committee (hereinafter as EC), which is composed of three experts designated by the Academic Degree Evaluation Committee of the School. The chairman of EC must be a professor, while the other members being professors or associate professors.

C.The CEPC can integrate written and oral patterns with one-hundred-mark system. The written examination should account for at least 50%.

D. According to the actual situation, each discipline should organize two times of CEPC each year in April and October respectively. Having collected the test questions, test papers, oral test records and comments of the CEPC, the Teaching Affairs Secretary of each school should submit all these materials

with the results of CEPC to the Section of Teaching Management in Graduate School for filing and preservation.

4)The Research Proposal Report and Literature Review of Dissertation (hereinafter as RPRLRD): before making the Research Proposal Report for the dissertation, all Ph.D. candidates should read more than 30 papers in the leading edge of their discipline from the latest literature. Then everyone should finish a literature review report of about 5,000 words as well as the corresponding Research Proposal Report.

5)Chinese Proficiency Assessment: The Ministry of Education requires the Chinese language ability of international graduates' to reach the level 3 based on the International Chinese Proficiency Standards at the time of graduation. Doctoral students are required to undergo a Chinese assessment level 3 during their stay at the university, and those who meet the requirements are eligible to apply for their graduation defense. Chinese Proficiency Assessment is accredited by School of International Education.

7. Degree Thesis

All degree dissertation related issues shall refer to UESTC Regulations for Postgraduate Degree Conferring.

The requirements for publishing academic papers before the phase of dissertation defense shall refer to UESTC Regulations for Requirements for Publishing Academic Papers for International Students.

Ph.D Program (for International Students) in Business Administration

Ph.D program (for international students) in the discipline of Business Administration of UESTC is devoted to develop academic elites or top managers in government or enterprises with understanding to Chinese business environment and equipped with modern management thoughts, by coursework and professional academic training, with the advantages in talent education evolved from the University's superiority in scientific researches in the discipline of information technology and business administration, in addition to the industrial resources obtained from China's reforms and opening policy.

1.Objectives

By means of integration of theory study and academic training, the program is aiming at developing academic elites or top managers of government and enterprises with global horizon as well as in-depth theoretical background, systematic knowledge of research, and understanding to China's environment. The Ph.D. candidates are expected not only to be equipped with general theory and expertise in strategic management and organizational behavior, but also to be familiar with basic theory and typical modes in industrial and financial sectors, to understand and apply the fundamental theory and analytical tools in national governance and public policy, to undertake independent basic and cutting-edge research in their own field on the basis of judgement on their home nation development stage, industrial base, and development modes in order that they can form innovative research achievements or be competent at top management in complex international and domestic context to make strategic decisions, to manage industrial innovation, and to develop public policies.

2. Orientations

- 1)Organizational Behavior and Human Resource Management
- 2)Strategic Management
- 3)Innovation & Entrepreneurship Management
- 4)Industrial Innovation
- 5)Commercial Mode Innovation
- 6) Public Policy and Governance

3.Duration

The duration set for Ph.D candidates is 3 years full-time. An extension can be applied for by those who cannot finish their courses on time owing to objective causes, yet altogether 6 years is the last due.

4. Progression and Requirements

The minimum total credits for international Ph.D candidates is 16, Ph.D candidates should complete the course work of no less than a total of 14 credits (out of which at least 10 should be of the degree course categories), compulsory sections of no less than 2 credits. During the course work, according to specifications by the discipline, the student is to pass examinations held for the degree courses and examinations or assessments held for the other optional courses. Ph.D candidates are allowed to choose 1~2 inter-disciplinary core courses as their degree courses under supervisors' guidance. Degree courses can be taken to substitute non-degree courses, but not vice versa. International students of Chinese language abilities can apply to take courses given in Chinese to local full-time graduate students and acquire corresponding credits if pass.

The supervisor (or the supervision group) responsibility mechanism is adopted in the education for international Ph.D candidates. The supervisor (or the supervision group) is responsible for the student's making of personal study plan, the choice of courses, and the completion of the degree thesis.

Those who fail to meet the credit requirements will be denied the thesis defense.

5. Curriculum

Course C	Categories	Course Number	Course Name	Class Hours	Credits	Semester	Notes
	Common	6900005001	Comprehensive Chinese	60	2	1	G 1
	Core Course	6900005002	A Survey of China	40	2	2	Compulsory
		1502026011	Business Statistics	40	2.5	1	Orientation
		1512026009	Managerial Research Method	32	2	2	1-3
		1512026012	Economic Reforms in China	32	2	1/2	Orientation 4-6
Degree		1512026013	Innovation and Made in China	32	2	1/2	
Courses	Major Core	1512026014	Digital Economics	32	2	1/2	
	Course	1512026015	Introduction to Research Method	32	2	1/2	
		1512026016	Management Theory	32	2	1	Orientation 1-3
		1612046021	Overview of Chinese Governance System	32	2	1/2	Orientation 4-6
	TI C	1512017011	Data Mining and Information Management	40	2.5	1	
	Elective	1512017012	Service Management	24	1.5	1	
Non-degree Optional Courses	Major Course	1512028006	Research Topics on Innovation and Entrepreneurship Management	40	2.5	2	
	Other Elective Course	6900005003	Chinese Reading & Writing	60	2	2	

Ph.D Program (for International Students) in Business Administration

	6400006003	Academic Activities	0	1	1,2	
	6400006004	Research Proposal and Literature	0	0	1,2	Compulsory
	040000004	Review of the Dissertation	U		1,2	
Compulsory Section	6400006005	Comprehensive Examination for	0	0	1,2	
Compulsory Section		Ph.D Candidates	U			
	6900006001	Chinese Proficiency Assessment	60	0	1,2	
	XX00025XXX	Elective Competence	0	1	1.2	
		Development Courses	0	1	1,2	

Directions: All courses, except for the Chinese ones specified by the requirements, are totally given in English.

6. Compulsory Sections

The compulsory sections for international Ph.D candidates include five parts, a candidate is required to complete the following aspects:

1)Elective Competence Development Courses: through introducing the academic cutting edge knowledge, culture, arts and sport, etc, such courses are given to improve the Ph.D candidates' comprehensive competence. A candidate should take at least one course and get one credit after assessment.

2)Academic Activities: to enliven academic atmosphere and to further and broaden Ph.D candidates' scope of knowledge, one should attend at least ten academic lectures within and out of UESTC, and fill in the Academic Activities Registration Form and get the official stamp upon attendance. One credit can be granted to the candidate when he/she succeeds in completing the above procedures.

3)Comprehensive Examination for Ph.D. Candidates (hereinafter as CEPC): which is taken upon their completion of all required courses. It mainly tests their understanding of basic theories and professional knowledge, and also checks their mastery of the research directions, of the leading edge, and of the dynamics in relevant fields.

A.Ph.D. candidates should generally take the CEPC at the end of the first year after enrollment. Those who fail in CEPC will have the opportunity to resit in the next year. If one still fails the resit, then she/he cannot participate in the dissertation defense and will terminate the study.

B.The CEPC is implemented by the Examination Committee (hereinafter as EC), which is composed of three experts designated by the Academic Degree Evaluation Committee of the School. The chairman of EC must be a professor, while the other members being professors or associate professors.

C.The CEPC can integrate written and oral patterns with one-hundred-mark system. The written examination should account for at least 50%.

D.According to the actual situation, each discipline should organize two times of CEPC each year in April and October respectively. Having collected the test questions, test papers, oral test records and comments of the CEPC, the Teaching Affairs Secretary of each school should submit all these materials

with the results of CEPC to the Section of Teaching Management in Graduate School for filing and preservation.

4)The Research Proposal Report and Literature Review of Dissertation (hereinafter as RPRLRD): before making the Research Proposal Report for the dissertation, all Ph.D. candidates should read more than 30 papers in the leading edge of their discipline from the latest literature. Then everyone should finish a literature review report of about 5,000 words as well as the corresponding Research Proposal Report.

5)Chinese Proficiency Assessment: The Ministry of Education requires the Chinese language ability of international graduates' to reach the level 3 based on the International Chinese Proficiency Standards at the time of graduation. Doctoral students are required to undergo a Chinese assessment level 3 during their stay at the university, and those who meet the requirements are eligible to apply for their graduation defense. Chinese Proficiency Assessment is accredited by School of International Education.

7. Degree Thesis

1) General requirements

For Ph. D candidates of Orientation 1-3, dissertation topics should be cutting-edge subjects of the discipline, or of significant theoretical or practical value to the development of science and technology and the society. A Ph.D dissertation is to indicate that the author is capable of solid and profound theoretical understanding and in-depth systematic knowledge of the discipline, is empowered to be engaged in independent scientific research or specialized technical work, and is expected to make creative achievements in science or specialized technology.

For Ph. D candidates of Orientation 4-6, dissertation topics should be relavant to their home nations' government management, industrial policy, or practical enterprise issues; or of significant theoretical or practical value to the home nations' development of science and technology and the society. A Ph.D dissertation is to indicate that the author is capable of solid and profound theoretical understanding and in-depth systematic knowledge of the discipline, and is empowered to be engaged in independent scientific research or management work.

- 2) All degree dissertation related issues shall refer to UESTC Regulations for Postgraduate Degree Conferring.
- 3) The requirements for publishing academic papers before the phase of dissertation defense shall refer to UESTC Regulations for Requirements for Publishing Academic Papers for International Students.

数学 来华留学硕士培养方案

电子科技大学数学学科拥有一级学科博士、硕士学位授予权、博士后流动站,涵盖基础数学、 计算数学、概率论与数理统计、应用数学、运筹学与控制论 5 个二级学科,是四川省重点一级学科。 经过"十五"、"十一五"、"211 工程"和"985 工程"的建设,本学科已在基础研究、应用基础研究及交 叉学科研究方面形成较强竞争力,具有较强的学科综合优势,学科研究水平和研究能力大幅提升, 已形成具有国际影响和国内领先的研究方向。研究方向涵盖数值代数与科学计算、图像与视觉处理 建模与高性能算法、动力系统与控制、微分/积分方程数值解及应用、偏微分方程与调和分析及应用、 概率论及应用、孔隙建模和数值模拟等。其理论和方法在物理学、化学、生物医学、电子信息科学、 生命科学、管理科学、自动控制、计算机科学、材料科学和环境科学等方面均有着极其重要的作用。

一、培养目标

本专业培养勇于追求真理和献身于科学研究的高层次数学专业人才。本学科硕士学位获得者应 掌握有关领域的国内外前沿现状和发展趋势,具有独立从事学科领域中的基础理论及前沿课题的研 究并做出创新的研究成果。至少熟练掌握一门外语,具有"读、写、听、说"能力。

硕士学位获得者还应对中国的历史与文化有初步的了解,能阅读简单的中文科技文献,并具有简单的汉语对话能力。留学研究生必修《中国概况》和《综合汉语》等课程,毕业时须通过《国际汉语能力标准》三级水平考试或通过同等难度的汉语水平考试。

二、研究方向

- 1.图像与视觉处理建模与高性能数值算法
- 3.微分/积分方程数值解及应用
- 5.概率论及应用

- 2.数值代数与科学计算及应用
- 4.偏微分方程与调和分析及应用
 - 6.最优化及应用

三、培养方式与学习年限

攻读硕士学位者,学习年限为两年。若因客观原因不能按时完成学业者,可申请适当延长学习 年限,但最长学习年限不超过四年。

四、学分与课程学习基本要求

总学分要求不低于 26 学分,课程总学分不低于 24 学分,其中学位课不低于 15 学分;必修环节不低于 2 学分。开展学位论文工作,撰写一篇学位论文,通过答辩。

留学研究生培养实行导师负责制。导师负责指导研究生制定个人培养计划、选课、开展学位论 文工作。

课程学习期间,应通过本专业规定的学位课程考试,以及其他选修课程的考试或考查。学位课中,公共基础课、专业基础课为必修课。允许在导师指导下跨学科选修 1~2 门学位课作为本学科的学位课。有汉语基础者,可申请选修面向国内全日制研究生用中文讲授的专业课程,通过者获得相应学分。

未达到上述要求者,可以在一年内补修或重修有关课程,在规定期限内仍没有达到学分要求者,

将被终止学业。

五、课程设置

课程	类别	课程编号	课程名称	学时	学分	开课 学期	备注
	公共	6900005001	综合汉语	60	2	1	必修
	基础课	6900005002	中国概况	40	2	2	必修
		1100016001	随机过程及应用	60	3	1	
学		1100016004	矩阵理论	60	3	1	
位	+ .!!.	1107016001	泛函分析	60	3	1	
课	专业	1107016002	偏微分方程	60	3	1	
	基础课	1107016004	最优化理论与应用	50	2.5	1	
		1107016005	数值分析	60	3	1/2	
		1107016007	数值代数	50	2.5	2	
非	专业	1107016008	偏微分方程数值解法	50	2.5	2	
学	选修课	1107017011	特殊矩阵	50	2.5	2	
位 课	其他 选修课	6900005003	汉语阅读与写作	60	2	2	
N. 14-	TT-H-	6400006003	学术活动	0	1	1,2	必修 不 少于5次
必修	圿	6900006001	汉语水平测评	60	0	1,2	必修
		XX00025XXX	素质教育公选课	0	1	1,2	必修

六、必修环节

来华留学硕士研究生必修环节包含三大部分,要求留学研究生分别完成以下内容:

- 1)素质教育公选课:以介绍学术前沿知识、中外文化、艺术和体育等为主,加强来华留学研究生综合素质教育,可选修一门,考核通过后获1个学分。
- 2) 学术活动:为进一步活跃学术气氛并拓宽来华留学研究生的知识面,硕士研究生在校期间须参加 5 次以上校内外学术报告会,填写学术活动登记表,加盖举办学术活动单位的公章,报所在学院研究生科备案,全部完成后获得 1 学分。
- 3) 汉语水平测评:教育部要求留学研究生在毕业时中文能力应至少达到《国际汉语能力标准》 三级水平。留学硕士/博士研究生在校期间须接受汉语三级水平测评,达到要求者方可申请毕业论文 答辩。由国际教育学院进行水平认定。

七、学位论文

学位论文工作按照《电子科技大学研究生学位授予实施细则》的规定执行。

物理学 来华留学硕士培养方案

物理学是研究物质及其运动的自然科学,揭示物质的结构、物质之间的相互作用和物质的运动 规律,为理解自然界奠定坚实的基础。物理学新方法、新理论是众多新技术、新产品的重要源头。

电子科技大学物理学院拥有物理学一级学科博士学位授予权,设有博士后流动站。本学科依托 物理学研究和与其它学科的交叉领域的研究,支撑相关工程技术的研发,提升学生对物理知识的掌握,培养合格的科技人才,促进服务于经济发展的高技术研究。本学科包含理论物理、凝聚态物理、无线电物理、光学、等离子体物理、量子物理与量子信息等六个优势学科方向,具有较强的基础研究能力和理工渗透、协调发展的明显特色,取得良好的学术声誉。物理学院致力于在高科技时代中发挥关键作用。

本学科课程体系立足于物理学学科,培养学生在宽口径职业方向的领导潜能,培养学生获取物理学基础知识和新兴知识的能力,培养学生解决与工业发展有关实际问题的能力。

一、培养目标

本学科硕士学位获得者应对物理学相关研究前沿和发展趋势有较深入的了解,具有物理学科较深厚的基础理论和系统专门的知识,掌握相关的实验技能,熟练运用计算机及相关信息技术,学会撰写学术论文并在国际会议上进行交流,有严谨的科学态度、工作作风和高尚的职业道德,毕业后能胜任科研、生产单位的研究、开发工作。

留学研究生必修中国概况和综合汉语等课程,毕业时须通过《国际汉语能力标准》三级水平考试或通过同等难度的汉语水平考试。

二、研究方向

1.理论物理 2.凝聚态物理

3.无线电物理 4.光学

5.等离子体物理 6.量子物理与量子信息

三、培养方式与学习年限

攻读硕士学位者,学习年限为两年。若因客观原因不能按时完成学业者,可申请适当延长学习 年限,但最长学习年限不超过四年。

四、学分与课程学习基本要求

总学分要求不低于 26 学分,课程总学分不低于 24 学分,其中学位课不低于 15 学分;必修环节不低于 2 学分。开展学位论文工作,撰写一篇学位论文(含研究报告),通过答辩。

留学研究生培养实行导师负责制。导师负责指导研究生制定个人培养计划、选课、开展研究报 告或学位论文工作。

课程学习期间,应通过本专业规定的学位课程考试,以及其他选修课程的考试或考查。公共基础课为必修课。允许在导师指导下跨学科选修 1~2 门学位课作为本学科的学位课。有汉语基础者,可申请选修面向国内全日制研究生用中文讲授的专业课程,通过者获得相应学分。

未达到上述要求者,可以在一年内补修或重修有关课程,在规定期限内仍没有达到学分要求者,将被终止学业。

五、课程设置

课程	类别	课程编号	课程名称	学时	学分	开课 学期	备注
	公共	6900005001	综合汉语	60	2	1	必修
	基础课	6900005002	中国概况	40	2	2	必修
		1100016001	随机过程及应用	60	3	1	公 1 加
学		1107016004	最优化理论与应用	50	2.5	1	第 1 组, 至少选一门
位	专业 基础课	1107016005	数值分析	60	3	1/2	至少远一门
课		0208096106	高等电磁场理论	60	3	1	
		1207026002	量子场论(一)	50	2.5	1	
		1207026006	高等量子力学	60	3	2	
		1207026026	广义相对论	40	2	2	
		0108107028	雷达原理	30	1.5	2	
非	专业	1207027013	硅基射频集成电路设计	20	1	1/2	
学	选修课	1207027028	纳米光学	40	2	2	
位		1207027029	量子场论(二)	50	2.5	2	
课	其他	6900005003	汉语阅读与写作	60	2	2	
	选修课	XX0004XXXX	前沿与交叉课程	/	/	1/2	
3, 14	TT-44-	6400006003	学术活动	0	1	1,2	必修 不少 于 5 次
必修 	小 节	6900006001	汉语水平测评	60	0	1,2	必修
		XX00025XXX	素质教育公选课	0	1	1,2	必修

说明:除规定的汉语课程以外,其他课程均采用英语授课。

六、必修环节

来华留学硕士研究生必修环节包含三大部分,要求留学研究生分别完成以下内容:

- 1)素质教育公选课:以介绍学术前沿知识、中外文化、艺术和体育等为主,加强来华留学研究生综合素质教育,可选修一门,考核通过后获1个学分。
- 2) 学术活动:为进一步活跃学术气氛并拓宽来华留学研究生的知识面,硕士研究生在校期间须参加 5 次以上校内外学术报告会,填写学术活动登记表,加盖举办学术活动单位的公章,报所在学院研究生科备案,全部完成后获得 1 学分。
- 3)汉语水平测评:教育部要求留学研究生在毕业时中文能力应至少达到《国际汉语能力标准》三级水平。留学硕士/博士研究生在校期间须接受汉语三级水平测评,达到要求者方可申请毕业论文答辩。由国际教育学院进行水平认定。

七、学位论文

学位论文工作按照《电子科技大学研究生学位授予实施细则》的规定执行。

机械工程 来华留学硕士培养方案

机械工程是以自然科学和工程技术科学为理论基础的一级学科,系统研究和解决现代社会生产和服务过程中的机械设计、制造、控制、使用和维修的相关理论和实际问题。本学科涵盖机械设计及理论、机械制造及其自动化、机械电子工程等研究方向,形成了机械、电子信息和计算机测控技术等多学科交叉综合的学科优势。

一、培养目标

本学科硕士学位获得者应对本学科的国内外技术发展现状和学术研究的前沿趋势有较深入的了解,具备坚实的机械科学与技术基础理论和专业知识,掌握相应的实验技能,熟练运用计算机,至少能熟练使用一个与本学科密切相关的软件,能在机械科学、信息科学的融合及其相关领域独立地开展较高学术意义或实用价值的科学研究工作。

本学科硕士学位获得者应必修中国概况和综合汉语等课程,毕业时须通过《国际汉语能力标准》三级水平考试或通过同等难度的汉语水平考试。

二、研究方向

- 1.装备可靠性与设备监控管理
- 2.智能制造与装备
- 3.智能感知与控制技术
- 4.装备智能设计与仿真

三、培养方式与学习年限

攻读硕士学位者,学习年限为两年。若因客观原因不能按时完成学业者,可申请适当延长学习 年限,但最长学习年限不超过四年。

四、学分与课程学习基本要求

总学分要求不低于 26 学分,课程总学分不低于 24 学分,其中学位课不低于 15 学分;必修环节不低于 2 学分。开展学位论文工作,撰写一篇学位论文,通过答辩。

留学研究生培养实行导师负责制。导师负责指导研究生制定个人培养计划、选课、开展研究报 告或学位论文工作。

课程学习期间,应通过本专业规定的学位课程考试,以及其他选修课程的考试或考查。公共基础课为必修课。允许在导师指导下跨学科选修 1~2 门学位课作为本学科的学位课。有汉语基础者,可申请选修面向国内全日制研究生用中文讲授的专业课程,通过者获得相应学分。

未达到上述要求者,可以在一年内补修或重修有关课程,在规定期限内仍没有达到学分要求者, 将被终止学业。

五、课程设置

课程	类别	课程编号	课程名称	学时	学分	开课 学期	备注
	公共	6900005001	综合汉语	60	2	1	必修
	基础课	6900005002	中国概况	40	2	2	必修
		1100016001	随机过程及应用	60	3	1	第1组,
学		1100016004	矩阵理论	60	3	1	必须选
位	+ . II.	1107016005	数值分析	60	3	1/2	1-3门
课	专业	0408026009	微机电系统	40	2	1	
	基础课	0408026010	先进制造技术	40	2	1	
		0808126020	嵌入式操作系统及应用	40	2	2	
		1107016004	最优化理论与应用	50	2.5	1	
		0108106007	信号检测与估计	40	2	1	
非	专业	0408027013	可靠性设计	40	2	2	
学	选修课	0408027018	机械动力学	40	2	2	
位		1008116004	系统工程理论与方法	40	2	1	
课	其他选 修课	6900005003	汉语阅读与写作	60	2	2	
必修	环节	6400006003	学术活动	0	1	1,2	必修 不少于 5 次
		6900006001	汉语水平测评	60	0	1,2	必修
		XX00025XXX	素质教育公选课	0	1	1,2	必修

说明:除规定的汉语课程以外,其他课程均采用英语授课。

六、必修环节

来华留学硕士研究生必修环节包含三大部分,要求留学研究生分别完成以下内容:

- 1)素质教育公选课:以介绍学术前沿知识、中外文化、艺术和体育等为主,加强来华留学研究生综合素质教育,可选修一门,考核通过后获1个学分。
- 2) 学术活动:为进一步活跃学术气氛并拓宽来华留学研究生的知识面,硕士研究生在校期间须参加 5 次以上校内外学术报告会,填写学术活动登记表,加盖举办学术活动单位的公章,报所在学院研究生科备案,全部完成后获得 1 个学分。
- 3)汉语水平测评:教育部要求留学研究生在毕业时中文能力应至少达到《国际汉语能力标准》三级水平。留学硕士/博士研究生在校期间须接受汉语三级水平测评,达到要求者方可申请毕业论文答辩。由国际教育学院进行水平认定。

七、学位论文

学位论文工作按照《电子科技大学研究生学位授予实施细则》的规定执行。

光学工程 来华留学硕士培养方案

光学工程学科主要研究光信息获取、光存储、光传输、光交换、光信息处理以及光电图像显示 等方向领域,在军事及民用领域有广泛的应用,是信息产业的重要支柱学科之一。

我校光学工程主要从事光学工程学科的理论及其相关应用方面的教学与科研,特别在光通信、 集成光学与光电子器件、红外与传感技术、平板显示与成像技术等方面具有特色和优势,处于国内 前列、国际先进。

光学工程学科在全国高校第四轮学科评估中获评 A 类学科。

一、培养目标

本学科硕士学位获得者应具有坚实的基础理论、系统的专业知识,了解本学科领域的前沿和动 态,掌握现代实验方法和技能;并能适应科学进步及社会发展的需要,具有从事理论研究或独立担 负工程技术实践的能力。同时应具有严谨求实的科学态度和工作作风,良好的合作精神和交流能力。 毕业后能胜任相关的科学研究与工程技术开发、教学和技术管理等工作。

留学研究生必修中国概况和综合汉语等课程,毕业时须通过《国际汉语能力标准》三级水平考 试或通过同等难度的汉语水平考试。

二、研究方向

1.光通信与集成光学

2.光电探测与系统集成

3.敏感电子学与传感网 4.显示与成像

5.微波光子学

6.光电测控与仪器

三、培养方式与学习年限

留学研究生培养实行导师负责制。导师负责指导研究生制定个人培养计划、选课、开展研究报 告或学位论文工作。

攻读硕士学位者,学习年限为两年。若因客观原因不能按时完成学业者,可申请适当延长学习 年限,但最长学习年限不超过四年。

四、学分与课程学习基本要求

总学分要求不低于 26 学分,课程总学分不低于 24 学分,其中学位课不低于 15 学分:必修环节 不低于2学分。开展学位论文工作,撰写一篇学位论文,通过答辩。

课程学习期间,应通过本专业规定的学位课程考试,以及其他选修课程的考试或考查。学位课 中,公共基础课为必修课。允许在导师指导下跨学科选修 1~2 门学位课作为本学科的学位课。有汉 语基础者,可申请选修面向国内全日制研究生用中文讲授的专业课程,通过后获得相应学分。

未达到上述要求者,可以在一年内补修或重修有关课程,在规定期限内仍没有达到学分要求者, 将被终止学业。

五、 课程设置

课程	类别	课程编号	课程名称	学时	学分	开课 学期	备注
	公共	6900005001	综合汉语	60	2	1	必修
	基础课	6900005002	中国概况	40	2	2	必修
		1100016001	随机过程及应用	60	3	1	公 1 /□ ≥ ≥
学		1100016004	矩阵理论	60	3	1	第1组,必 须选1-3门
字 位		1107016005	数值分析	60	3	1/2	沙地 1-3
课	专业	0108106013	数字通信基础	40	2	2	
体	基础课	0108106014	数字信号处理	40	2	1	
		0108106020	光纤通信	30	1.5	2	
		0508036001	光电子技术	40	2	1	
		0508036021	光纤光学	30	1.5	1	
	专业 选修课	0108106007	信号检测与估计	40	2	1	
		0108107026	光纤技术	40	2	1	
非		0508037029	光电子学与光子学	20	1	1	
学		0508037033	有机电子学	20	1	2	
子 位		0808126016	网络安全	60	3	1	
课		0808127022	信息安全数学基础	40	2	1	
		1207026016	纳米光学	40	2	1,2	
	其他 选修课	6900005003	汉语阅读与写作	60	2	2	
N. Marrow H.		640006003	学术活动	0	1	1,2	必修 不少 于 5 次
必修 	小 节	6900006001	汉语水平测评	60	0	1,2	必修
		XX00025XXX	素质教育公选课	0	1	1,2	必修

说明:除规定的汉语课程以外,其他课程均采用英语授课。

六、必修环节

来华留学硕士研究生必修环节包含三大部分,要求留学研究生分别完成以下内容:

- 1)素质教育公选课:以介绍学术前沿知识、中外文化、艺术和体育等为主,加强来华留学研究生综合素质教育,可选修一门,考核通过后获1个学分。
- 2) 学术活动:为进一步活跃学术气氛并拓宽来华留学研究生的知识面,硕士研究生在校期间须参加 5 次以上校内外学术报告会,填写学术活动登记表,加盖举办学术活动单位的公章,报所在学院研究生科备案,全部完成后获得 1 学分。
- 3)汉语水平测评:教育部要求留学研究生在毕业时中文能力应至少达到《国际汉语能力标准》 三级水平。留学硕士研究生在校期间须接受汉语三级水平测评,达到要求者方可申请毕业论文答辩。 由国际教育学院进行水平认定。

七、学位论文

学位论文工作按照《电子科技大学研究生学位授予实施细则》的规定执行。

材料科学与工程 来华留学硕士培养方案

"材料科学与工程"是研究材料的组成、结构、制备工艺与其性能及应用间相互关系的科学与技术,研究对象包括电、磁、声、光、热、力及生物等功能材料的理论、设计、制备、检测及应用,研究过程涉及到信息的获取、转换、存储、处理与控制。我校是首批"双一流"A类建设高校,电子信息材料及应用的研究和开发是本学科的特色和优势。本学科现有国家级人才、博士生导师、教授、副教授以及一批青年博士组成的学术队伍,拥有先进的实验设备和充足的科研经费。

随着科学技术的发展,本学科与其它学科的交叉越来越紧密,同时,作为当代文明的重要支柱,本学科已成为现代科学技术发展的先导和基础,与当代社会发展有着极为密切的依存关系。

一、培养目标

本学科硕士学位获得者应具有一定的汉语听、说、读、写能力,对学科研究前沿和发展趋势有 较深入的了解,具有较深厚的材料科学与工程学科的基础理论和系统专门的知识,掌握相应的实验 技能,熟练运用计算机,至少能熟练使用一个与本学科密切相关的仿真软件,有严谨的科学态度和 工作作风与高尚的职业道德,能胜任科研、生产单位和高等院校的研究、开发、教学或技术管理工 作。

二、研究方向

1.电子信息材料与器件

2.材料基因工程

3.电子薄膜与集成器件

4.新能源材料与器件

5.印制电路与印制电子技术

6.有机功能材料与工程

三、培养方式与学习年限

留学研究生培养实行导师负责制。导师负责指导研究生制定个人培养计划、选课、开展学位论 文工作。

课程学习期间,应通过本专业规定的学位课程考试,以及其他选修课程的考试或考查。公共基础课为必修课。允许在导师指导下跨学科选修 1~2 门学位课作为本学科的学位课。有汉语基础者,可申请选修面向国内全日制研究生用中文讲授的专业课程,通过者获得相应学分。

未达到上述要求者,可以在一年内补修或重修有关课程,在规定期限内仍没有达到学分要求者, 将被终止学业。

攻读硕士学位者,学习年限为两年。若因客观原因不能按时完成学业者,可申请适当延长学习 年限,但最长学习年限不超过四年。

四、学分与课程学习基本要求

总学分要求不低于 26 学分,课程总学分不低于 24 学分,其中学位课不低于 15 学分;必修环节不低于 2 学分。开展学位论文工作,撰写一篇学位论文,通过答辩。留学研究生必修中国概况和综

合汉语等课程,毕业时须通过《国际汉语能力标准》三级水平考试或通过同等难度的汉语水平考试。

五、课程设置

课程	星类别	课程编号	课程名称	学时	学分	开课 学期	备注
	公共	6900005001	综合汉语	60	2	2 1	必修
	基础课	6900005002	中国概况	40	2	2	必修
		1100016001	随机过程及应用	60	3	1	<i>አ</i> አ
学 位		1100016004	矩阵理论	60	3	1	第1组, 至少选1门
课	专业	1107016005	数值分析	60	3	1/2	主之処1门
	基础课	0208096101	集成电路与设计	40	2	2	
		0208096106	高等电磁场理论	60	3	1	
		0208096107	微波工程	40	2	2	
		0108107028	雷达原理	30	1.5	2	
		0208096104	射频集成电路设计	40	2	2	
	0208 专业 选修课	0208097010	柔性 MEMS 系统与集成	40	2	2	全英文,中外 共选
		0208097019	高等数字集成电路设计	40	2	2	全英文,中外 共选
非学		0208097020	集成电路仿真与自动化设计基础	40	2	1	全英文,中外 共选
字 位 课		0308057010	材料设计与计算	30	1.5	2	全英文,中外 共选
		0308057016	Optoelectronic Conversion from Fundamental to Devices	20	20 1 40 2	2	全英文,中外 共选
		0308057024	物理与化学电源前沿	40		1	全英文,中外 共选
		0308177009	实验室安全与消防安全	20	1	1	
	其他 选修课	6900005003	汉语阅读与写作	60	2	2	
		6400006003	学术活动	0	1	1,2	必修
必修	逐环节	XX00025XXX	素质教育公选课	0	1	1,2	必修
		6900006001	汉语水平测评	60	0	1,2	必修

六、必修环节

来华留学硕士研究生必修环节包含三大部分,要求留学研究生分别完成以下内容:

1) 素质教育公选课:以介绍学术前沿知识、中外文化、艺术和体育等为主,加强来华留学研究生综合素质教育,可选修一门,考核通过后获1个学分。

- 2) 学术活动:为进一步活跃学术气氛并拓宽来华留学研究生的知识面,硕士研究生在校期间须参加 5 次以上校内外学术报告会,填写学术活动登记表,加盖举办学术活动单位的公章,报所在学院研究生科备案,全部完成后获得 1 学分。
- 3) 汉语水平测评:教育部要求留学研究生在毕业时中文能力应至少达到《国际汉语能力标准》 三级水平。留学硕士/博士研究生在校期间须接受汉语三级水平测评,达到要求者方可申请毕业论文 答辩。由国际教育学院进行水平认定。

七、学位论文

学位论文工作按照《电子科技大学研究生学位授予实施细则》的规定执行。来华留学生的答辩语言统一为英语。

电气工程 来华留学硕士培养方案

电气工程是一门关于电力、电子和电磁的研究与应用的工程学科,其涵盖的领域包括电力、电子、电路、控制和通信,是当今高新技术领域中不可或缺的关键学科。近四十年来在信息与通信工程、控制科学与工程等学科的综合、交叉作用下,已经成为现代科学技术领域的核心学科之一。我校顺应国家能源发展战略,依托学校在电子信息领域综合优势,以电力系统广域测量与控制、智能电网、电力电子与电力传动、新型发电与储能等领域的研究为特色,取得了一大批高水平的科研成果,为培养宽口径、复合型、国际化的高端电气工程人才奠定了很好的基础。

一、培养目标

本学科定位于培养在电气工程领域,特别是电力与控制、电路与系统、电力信息与通信等方面,具备坚实的基础理论和系统的专业知识,掌握电气工程和计算机应用等专业技术的高端人才。硕士学位获得者应了解本学科有关研究领域国内外的学术现状和发展方向,具备独立分析和解决本学科的专门技术问题的能力,熟练掌握汉语,具备较好的国际化视野和国际交流能力,具有严谨求实的科学态度和工作作风、勇于创新的开拓意识和良好的职业素养,能胜任电气工程领域相关的科研、教学、工程技术开发及管理工作。

本学科硕士学位获得者应必修中国概况和综合汉语等课程,毕业时须通过《国际汉语能力标准》 三级水平考试或通过同等难度的汉语水平考试。

二、研究方向

1.电力系统分析与控制

2.电力变换与主动配电网

3.先进输变电技术

4.电气设备智能监测与诊断

5.电机系统与控制

6.电力能源经济

三、培养方式与学习年限

攻读硕士学位者,学习年限为两年。若因客观原因不能按时完成学业者,可申请适当延长学习 年限,但最长学习年限不超过四年。

四、学分与课程学习基本要求

总学分要求不低于 26 学分,课程总学分不低于 24 学分,其中学位课不低于 15 学分;必修环节不低于 2 学分。开展学位论文工作,撰写一篇学位论文,通过答辩。

留学研究生培养实行导师负责制。导师负责指导研究生制定个人培养计划、选课、开展研究报 告或学位论文工作。

课程学习期间,应通过本专业规定的学位课程考试,以及其他选修课程的考试或考查。学位课中,公共基础课为必修课,基础课至少选修 1 门。允许在导师指导下跨学科选修 1~2 门学位课作为本学科的学位课。有汉语基础者,可申请选修面向国内全日制研究生用中文讲授的专业课程,通过者获得相应学分。

未达到上述要求者,可以在一年内补修或重修有关课程,在规定期限内仍没有达到学分要求者,

将被终止学业。

五、课程设置

课程	类别	课程编号	课程名称		学分	开课 学期	备注
	公共	6900005001	综合汉语	60	2	1	必修
	基础课	6900005002	中国概况	40	2	2	必修
		1100016001	随机过程及应用	60	3	1	数1加 业
学		1100016004	矩阵理论	60	3	1	第1组,必 . 须选1-3门
位	± .II.	1107016005	数值分析	60	3	1/2	
课	专业	0408086008	电力系统运行与控制	40	2	2	
	基础课	0408086009	电力电子技术	40	2	1	
		0808126020	嵌入式操作系统及应用	40	2	2	
		1107016004	最优化理论与应用	50	2.5	1	
		0108106007	信号检测与估计	40	2	1	
非	专业 选修课	0408027013	可靠性设计	40	2	2	
学		0408087012	新能源发电与并网	40	2	2	
位		0408087014	电力市场	40	2	1	
课	其他 选修课	6900005003	汉语阅读与写作	60	2	2	
3.15	77-44	6400006003	学术活动	0	1	1,2	必修 不少 于 5 次
业修 	环节	6900006001	汉语水平测评	60	0	1,2	必修
		XX00025XXX	素质教育公选课	0	1	1,2	必修

说明:除规定的汉语课程以外,其他课程均采用英语授课。

六、必修环节

来华留学硕士研究生必修环节包含三大部分,要求留学研究生分别完成以下内容:

- 1)素质教育公选课:以介绍学术前沿知识、中外文化、艺术和体育等为主,加强来华留学研究 生综合素质教育,可选修一门,考核通过后获1个学分。
- 2) 学术活动:为进一步活跃学术气氛并拓宽来华留学研究生的知识面,硕士研究生在校期间须参加 5 次以上校内外学术报告会,填写学术活动登记表,加盖举办学术活动单位的公章,报所在学院研究生科备案,全部完成后获得 1 个学分。
- 3)汉语水平测评:教育部要求留学研究生在毕业时中文能力应至少达到《国际汉语能力标准》三级水平。留学硕士/博士研究生在校期间须接受汉语三级水平测评,达到要求者方可申请毕业论文答辩。由国际教育学院进行水平认定。

七、学位论文

学位论文工作按照《电子科技大学研究生学位授予实施细则》的规定执行。

电子科学与技术 来华留学硕士培养方案

电子科学与技术是进入国家"双一流"建设的重点一级学科,包含电磁场与微波技术、电路与系统、物理电子学、微电子学与固体电子学、电子信息材料与元器件等 5 个二级学科。该学科师资力量雄厚,在各个研究方向上都具有高水平的科研实力和广泛的国际学术影响。

一、培养目标

本学科硕士学位获得者应具有一定的汉语听、说、读、写能力,对学科研究前沿和发展趋势有 较深入的了解,具有较深厚的电子科学技术学科的基础理论和系统专门的知识,掌握相应的实验技 能,熟练运用计算机,至少能熟练使用一个与本学科密切相关的仿真软件,有严谨的科学态度和工 作作风与高尚的职业道德,能胜任科研、生产单位和高等院校的研究、开发、教学或技术管理工作。

留学研究生必修中国概况和综合汉语等课程,毕业时须通过《国际汉语能力标准》三级水平考 试或通过同等难度的汉语水平考试。

二、研究方向

1.电磁场与微波技术

2.集成电路与系统

3.电子信息材料与元器件

4.微电子与固体电子

5.物理电子学

三、培养方式与学习年限

攻读硕士学位者,学习年限为两年。若因客观原因不能按时完成学业者,可申请适当延长学习 年限,但最长学习年限不超过四年。

四、学分与课程学习基本要求

总学分要求不低于 26 学分,课程总学分不低于 24 学分,其中学位课不低于 15 学分;必修环节不低于 2 学分。开展学位论文工作,撰写一篇学位论文(含研究报告),通过答辩。留学研究生培养实行导师负责制。导师负责指导研究生制定个人培养计划、选课、开展研究报告或学位论文工作。

课程学习期间,应通过本专业规定的学位课程考试,以及其他选修课程的考试或考查。公共基础课为必修课。允许在导师指导下跨学科选修 1~2 门学位课作为本学科的学位课。有汉语基础者,可申请选修面向国内全日制研究生用中文讲授的专业课程,通过者获得相应学分。

未达到上述要求者,可以在一年内补修或重修有关课程,在规定期限内仍没有达到学分要求者, 将被终止学业。

五、课程设置

课程	类别	课程编号	课程名称	学时	学分	开课 学期	备注
学位课	公共 基础课	6900005001	综合汉语	60	2	1	必修

	公共 基础课	6900005002	中国概况	40	2	2	必修
		1100016001	随机过程及应用	60	3	1	第1组,
学		1100016004	矩阵理论	60	3	1	必须选
位 课	专业	1107016005	数值分析	60	3	1/2	1-3门
床	基础课	0208096101	集成电路与设计	40	2	2	
		0208096106	高等电磁场理论	60	3	1	
		0208096107	微波工程	40	2	2	
		0108106007	信号检测与估计	40	2	1	
	专业 选修课	0108107028	雷达原理	30	1.5	2	
		0208096103	软硬件协同设计	40	2	2	
非		0208096104	射频集成电路设计	40	2	2	
学		0208096109	声波表面和体声波器件在通信	40	2	2	
位			中的应用				
课		0208097010	柔性 MEMS 系统与集成	40	2	2	
		0208097019	高等数字集成电路设计	40	2	2	
	其他 选修课	6900005003	汉语阅读与写作	60	2	2	
		6400006003	 学术活动	0	1	1,2	不少于 5
必修环节			, , , , , ,			,	次
		6900006001	汉语水平测评	60	0	1,2	必修
		XX00025XXX	素质教育公选课	0	1	1,2	必修

六、必修环节

来华留学硕士研究生必修环节包含三大部分,要求留学研究生分别完成以下内容:

- 1)素质教育公选课:以介绍学术前沿知识、中外文化、艺术和体育等为主,加强来华留学研究生综合素质教育,可选修一门,考核通过后获1个学分。
- 2) 学术活动:为进一步活跃学术气氛并拓宽来华留学研究生的知识面,硕士研究生在校期间须参加 5 次以上校内外学术报告会,填写学术活动登记表,加盖举办学术活动单位的公章,报所在学院研究生科备案,全部完成后获得 1 学分。
- 3) 汉语水平测评:教育部要求留学研究生在毕业时中文能力应至少达到《国际汉语能力标准》 三级水平。留学硕士/博士研究生在校期间须接受汉语三级水平测评,达到要求者方可申请毕业论文 答辩。由国际教育学院进行水平认定。

七、学位论文

学位论文工作按照《电子科技大学研究生学位授予实施细则》的规定执行。来华留学生的答辩 语言统一为英语。

信息与通信工程 来华留学硕士培养方案

电子科技大学"信息与通信工程"一级学科是国家重点学科,包含 2 个二级学科,即属于国家重点学科与长江学者计划特聘教授设岗的两个二级学科"通信与信息系统"和"信号与信息处理"。我校"信息与通信工程"相关学科是国内首批获博士学位授予权、首批设立博士后流动站的学科,也是首批"211 工程"、"985 工程"重点建设学科及"双一流"重点建设学科,2012 年本学科在教育部学科评估中排名第 2,在 2017 年教育部公布的第四轮一级学科评估结果中被评为 A+。拥有中国工程院院士 2人,千人计划入选者 8人,全国教学名师 2人,长江学者 5人,国家杰出青年科学基金获得者 2人,青年千人计划入选者 9人,国家青年拔尖人才支持计划入选者 1人。本学科研究团队在国内外享有良好声誉。本学科具有国家级重点实验室、教育部重点实验室、"111"学科引智基地等等具有国际一流水平的学术研究与人才培养平台。

本学科与电子科学与技术、计算机科学与技术、控制科学与工程、仪器科学与技术等学科的研究领域密切相关。

一、培养目标

本学科硕士学位获得者应对学科研究前沿和发展趋势有较深入的了解,具有通信学科的较深厚的基础理论和系统专门的知识,掌握相应的实验技能,熟练运用计算机,至少能熟练使用一个与本学科密切相关的仿真软件,了解国内外信息与通信工程学科某一领域的新技术和发展动向,创新性地解决本学科的学术或技术问题,能撰写学术论文并在会议上进行交流,有严谨的科学态度和工作作风与高尚的职业道德,能胜任科研、生产单位和高等院校的研究、开发、教学或技术管理工作。

留学研究生必修中国概况和综合汉语等课程,毕业时须通过《国际汉语能力标准》三级水平考试或通过同等难度的汉语水平考试。

二、研究方向

1.无线与移动通信系统 2.抗干扰与安全通信系统

3.雷达探测与成像识别 4.智能通信网络与信息处理

5.光纤传感与通信 6.图像与视频处理

7.通信集成电路与系统 8.智能感知与信息系统

9.机器学习与人工智能 10.信号与信息智能处理

三、培养方式与学习年限

留学研究生培养实行导师负责制。导师负责指导研究生制定个人培养计划、选课、开展研究报 告或学位论文工作。

攻读硕士学位者,学习年限为2年。若因客观原因不能按时完成学业者,可申请适当延长学习 年限,但最长学习年限不超过4年。

四、学分与课程学习基本要求

总学分要求不低于 26 学分,课程总学分不低于 24 学分,其中学位课不低于 15 学分;必修环节不低于 2 学分。开展学位论文工作,撰写一篇学位论文,通过答辩。课程学习期间,应通过本专业规定的学位课程考试,以及其他选修课程的考试或考查。公共基础课为必修课。允许在导师指导下跨学科选修 1~2 门学位课作为本学科的学位课。有汉语基础者,可申请选修面向国内全日制研究生用中文讲授的专业课程,通过后获得相应学分。

未达到上述要求者,可以在一年内补修或重修有关课程,在规定期限内仍没有达到学分要求者,将被终止学业。

五、课程设置

课程	类别	课程编号	课程名称	学时	学分	开课 学期	备注	
学位课	公共基	6900005001	综合汉语	60	2	1	必修	
学位课	础课	6900005002	中国概况	40	2	2	必修	
		1100016001	随机过程及应用	60	3	1	第1组,	
		1100016004	矩阵理论	60	3	1	必须选 1-	
		1107016005	数值分析	60	3	1/2	3 门	
学	+ .11.	0108106001	最优化理论与应用	50	2.5	1		
位	基础课	0108106013	数字通信基础	40	2	2		
课		0108106014	数字信号处理	40	2	1		
		0108106020	光纤通信	30	1.5	2		
		0208096101	集成电路与设计	40	2	2		
		0808126022	网络与信息安全	60	3	1		
			0108106007	信号检测与估计	40	2	1	
			0108107013	模糊逻辑	40	2	2	
		0108107026	光纤技术	40	2	1		
		0108107027	计算智能方法及其应用	30	1.5	2		
非	专业	0108107028	雷达原理	30	1.5	2		
学 位	选修课	0108107032	信号处理和数据分析中的应用 矩阵方法	40	2	2		
课		0808127024	互联网络程序设计	40	2	2		
		0808127031	信息安全数学基础	50	2.5	1		
		1008256008	系统工程理论与方法	40	2	1		
	其他 选修课	6900005003	汉语阅读与写作	60	2	2		
حل الا	TT-++-	6400006003	学术活动	0	1	1,2	必修 不 少于5次	
必修		6900006001	汉语水平测评	60	0	1,2	必修	
		XX00025XXX	素质教育公选课	0	1	1,2	必修	

说明:除规定的汉语课程以外,其他课程均采用英语授课。

六、必修环节

来华留学硕士研究生必修环节包含三大部分,要求留学研究生分别完成以下内容:

- 1)素质教育公选课:以介绍学术前沿知识、中外文化和艺术等为主,加强来华留学研究生综合素质教育,研究生可选修一门,考核通过后获1个学分。
- 2) 学术活动:为进一步活跃学术气氛并拓宽来华留学研究生的知识面,硕士研究生在校期间须参加 5 次以上校内外学术报告会,填写学术活动登记表,有举办学术活动单位的公章为依据,报所在学院研究生科备案,完成后获得 1 学分。
- 3) 汉语水平测评:教育部要求留学研究生在毕业时中文能力应至少达到《国际汉语能力标准》 三级水平。留学硕士/博士研究生在校期间须接受汉语三级水平测评,达到要求者方可申请毕业论文 答辩。由国际教育学院进行水平认定。

七、学位论文

控制科学与工程 来华留学硕士培养方案

控制科学与工程是研究控制的理论、方法、技术及其工程应用的学科。控制科学以控制论、系统论、信息论为基础,研究各应用领域内的共性问题,即为了实现控制目标,如何建立系统的模型,分析其内部与环境信息,采取何种控制与决策行为;且与各应用领域的密切结合,又形成了控制工程丰富多样的内容。本学科点在理论研究与工程实践相结合、学科交叉和军民结合等方面具有明显的特色与优势,在我国国民经济发展和国家安全方面发挥了重大作用。

我校控制科学与工程学科为四川省重点学科,师资力量雄厚,形成了复杂系统控制与优化、新能源系统控制技术、计算机视觉与模式识别、机器人技术与系统等研究方向,具有电子信息优势明显,学科交叉特色鲜明,工程研究能力突出等特点。本学科的发展受益于社会和国家的发展,同时也在国家的决策咨询、国防建设、行业推动、社会服务、人才培养等方面做出了突出的贡献。

一、培养目标

遵纪守法,具有良好的道德品质;掌握本学科领域坚实的基础理论和系统的专门知识;毕业时 具有一定的汉语交流能力;具有从事科学研究、教学工作或独立担负专门技术工作的能力。

二、研究方向

1.复杂系统与智能信息处理

2.新能源系统及控制技术

3.模式识别与智能系统

4.测控通信与导航控制

5.检测技术与自动化装置

三、培养方式与学习年限

攻读硕士学位者,学习年限为两年。若因客观原因不能按时完成学业者,可申请适当延长学习 年限,但最长学习年限不超过四年。

四、学分与课程学习基本要求

总学分要求不低于 26 学分,课程总学分不低于 24 学分,其中学位课不低于 15 学分;必修环节不低于 2 学分。开展学位论文工作,撰写一篇学位论文(含研究报告),通过答辩。

留学研究生培养实行导师负责制。导师负责指导研究生制定个人培养计划、选课、开展研究报 告或学位论文工作。

课程学习期间,应通过本专业规定的学位课程考试,以及其他选修课程的考试或考查。学位课中,公共基础课为必修课。允许在导师指导下跨学科选修 1~2 门学位课作为本学科的学位课。有汉语基础者,可申请选修面向国内全日制研究生用中文讲授的专业课程,通过者获得相应学分。

留学研究生必修中国概况和综合汉语等课程,毕业时须通过《国际汉语能力标准》三级水平考试或通过同等难度的汉语水平考试。

未达到上述要求者,可以在一年内补修或重修有关课程,在规定期限内仍没有达到学分要求者,

将被终止学业。

五、课程设置

课	程类别	课程编号	课程名称	学时	学分	开课 学期	备注
	公共	6900005001	综合汉语	60	2	1	必修
	基础课	6900005002	中国概况	40	2	2	必修
		1100016001	随机过程及应用	60	3	1	第1组,
	学 位 课 专业 基础课	1100016004	矩阵理论	60	3	1	必须选 1-
		1107016005	数值分析	60	3	1/2	3 门
		0108106014	数字信号处理	40	2	1	
		0608116010	计算机视觉	40	2	1	专业
		0608116011	线性系统理论	50	2.5	1	核心课
		0108106007	信号检测与估计	40	2	1	
		0208096104	射频集成电路设计	40	2	2	
非	专业	0208097020	集成电路仿真与自动化设计基础	40	2	1	
学	选修课	0608117003	复杂系统性能评价和优化	20	1	2	
位		0808126020	嵌入式操作系统及应用	40	2	2	
课		1008256008	系统工程理论与方法	40	2	1	
	其他	6900005003	汉语阅读与写作	60	2	2	
	选修课	XX0004XXXX	前沿与交叉课程	/	/	1/2	
	,	6400006003	学术活动	0	1	1,2	必修 不 少于5次
		6400006004	论文开题报告及文献阅读综述 I	0	0	1,2	必修
必	修环节	6400007006	中期考评	0	0	1,2	必修
		6900006001	汉语水平测评	60	0	1,2	必修
		XX00025XXX	素质教育公选课	0	1	1,2	必修

说明:除规定的汉语课程以外,其他课程均采用英语授课。

六、必修环节

来华留学硕士研究生必修环节包含五大部分,要求留学研究生分别完成以下内容:

- 1)素质教育公选课:以介绍学术前沿知识、中外文化、艺术和体育等为主,加强来华留学研究生综合素质教育,可选修一门,考核通过后获1个学分。
- 2) 学术活动:为进一步活跃学术气氛并拓宽来华留学研究生的知识面,硕士研究生在校期间须参加5次以上校内外学术报告会,填写学术活动登记表,加盖举办学术活动单位的公章,报所在学

院研究生科备案,全部完成后获得1学分。

- 3) 汉语水平测评:教育部要求留学研究生在毕业时中文能力应至少达到《国际汉语能力标准》 三级水平。留学硕士/博士研究生在校期间须接受汉语三级水平测评,达到要求者方可申请毕业论文 答辩。由国际教育学院进行水平认定。
- 4) 论文开题报告及文献阅读综述:指研究生在学位论文开题之前,必须阅读本学科前沿的文献 30 篇以上,并写出 4000 字左右的文献综述报告,完成相应的开题报告。
- 5) 论文工作中期报告:开题半年后,需以书面形式报告论文工作进展及完成情况,经专家评审通过,方可继续论文工作。

七、学位论文

计算机科学与技术 来华留学硕士培养方案

电子科技大学"计算机科学与技术"于 1999 年建成一级学科博士后流动站,本学科已形成强有力的基础研究和应用研究能力,具有较强的学科综合优势。学科研究水平和研究能力大幅度提升,整体接近国内一流水平,部分研究方向达到国内先进水平。在学科方向、学术团队、学科平台、科学研究、人才培养、学术交流等方面取得了突出的成绩。

一、培养目标

硕士学位获得者应具有本学科坚实的基础理论、系统的专业知识,了解本学科主要的技术发展 状况,掌握本学科的现代实验方法和技能。在所学专业方向上,具有从事科学理论研究或担负工程 技术实践工作的能力。毕业后能胜任与计算机领域相关的科学研究、计算机应用系统的软件开发与 分析,以及计算机领域教学工作。

硕士学位获得者还应对中国的历史与文化有初步的了解,能阅读简单的中文科技文献,并具有简单的汉语对话能力。留学研究生必修中国概况和综合汉语等课程,毕业时须通过《国际汉语能力标准》三级水平考试或通过同等难度的汉语水平考试。

二、研究方向

1.信息安全 2.数字媒体技术

3.嵌入式系统 4.计算机网络

5.人工智能 6.云计算

三、培养方式与学习年限

攻读硕士学位者,学习年限为两年。若因客观原因不能按时完成学业者,可申请适当延长学习 年限,但最长学习年限不超过四年。

四、学分与课程学习基本要求

总学分要求不低于 26 学分,课程总学分不低于 24 学分,其中学位课不低于 15 学分;必修环节不低于 2 学分。开展学位论文工作,撰写一篇学位论文,通过答辩。

留学研究生培养实行导师负责制。导师负责指导研究生制定个人培养计划、选课、开展学位论 文工作。

课程学习期间,应通过本专业规定的学位课程考试,以及其他选修课程的考试或考查。学位课中,公共基础课为必修课,基础课至少选修1门。允许在导师指导下跨学科选修1~2门学位课作为本学科的学位课。学位课可替代非学位课,但非学位课不能替代学位课。有汉语基础者,可申请选修面向国内全日制研究生用中文讲授的专业课程,通过后获得相应学分。

未达到上述要求者,可以在一年内补修或重修有关课程,在规定期限内仍没有达到学分要求者,将被终止学业。

五、课程设置

课程	星类别	课程编号	课程名称	学时	学分	开课 学期	备注
	公共	6900005001	综合汉语	60	2	1	必修
	基础课	6900005002	中国概况	40	2	2	必修
		1100016001	随机过程及应用	60	3	1	# . /
		1100016004	矩阵理论	60	3	1	第1组,必须 选1-3门
		1107016005	数值分析	60	3	1/2	- 761-3 1
学 位		0808126007	大数据分析与挖掘	40	2	2	全英文,中外 共选
课	专业	0808126019	移动计算技术	40	2	2	
	基础课	0808126020	嵌入式操作系统及应用	40	2	2	
		0808126021	密码算法设计	40	2	2	
		0808126022	网络与信息安全	60	3	1	
		0808126023	软件开发技术	40	2	1	
		0808126024	多媒体技术与应用	40	2	1	
		0808127005	云计算	20	1	1	全英文,中外 共选
		0808127020	密码学基础	40	2	2	
		0808127024	互联网络程序设计	40	2	2	
		0808127025	数据库技术	40	2	2	
非	专业	0808127027	计算机图形学	40	2	2	
学	选修课	0808127030	操作系统结构与应用	40	2	2	
位		0808127031	信息安全数学基础	50	2.5	1	
课		0808127032	面向对象编程技术	30	1.5	1	
		0808127043	高级网络计算	20	1	1	人 学 之
		0808127055	前沿算法技巧	20	1	2	全英文,中外 共选
		0808397009	数据恢复与数字取证	20	1	1	六 処
	其他	6900005003	汉语阅读与写作	60	2	2	
	选修课	XX0004XXXX	前沿与交叉课程	/	/	1/2	
	to see the	6400006003	学术活动	0	1	1,2	必修 不少 于 5 次
必值	修环节	6900006001	汉语水平测评	60	0	1,2	必修
		XX00025XXX	素质教育公选课	0	1	1,2	必修

说明:除规定的汉语课程以外,其他课程均采用英语授课。

六、必修环节

来华留学硕士研究生必修环节包含三大部分,要求留学研究生分别完成以下内容:

1)素质教育公选课:以介绍学术前沿知识、中外文化、艺术和体育等为主,加强来华留学研究

生综合素质教育,可选修一门,考核通过后获1个学分。

- 2) 学术活动:为进一步活跃学术气氛并拓宽来华留学研究生的知识面,硕士研究生在校期间须参加 5 次以上校内外学术报告会,填写学术活动登记表,加盖举办学术活动单位的公章,报所在学院研究生科备案,全部完成后获得 1 学分。
- 3) 汉语水平测评:教育部要求留学研究生在毕业时中文能力应至少达到《国际汉语能力标准》 三级水平。留学硕士/博士研究生在校期间须接受汉语三级水平测评,达到要求者方可申请毕业论文 答辩。由国际教育学院进行水平认定。

七、学位论文

生物医学工程 来华留学硕士培养方案

生物医学工程是现代科学技术与生物医学问题相结合的一个交叉领域,与电子信息科学与技术、计算机科学与技术、生物医学、认知神经科学和分子生物学等学科的研究领域密切相关。我校本学科创办于 1986 年;1993 年获得硕士授位权;2000 年获得"生物医学工程"一级学科博士授位权;2017年在教育部全国高校第四轮学科评估中获评 B+类学科。现有正副教授 40 余名,汇集了包括中国科学院院士、美国医学与生物工程院 Fellow、英国工程技术学会 Fellow 等高层次人才 17 位(不重复计算)、全时非华裔高层次人才 6 位,构建了高水平的国际化师资队伍。设有国家国际科技合作基地-神经信息国际联合研究中心,以及神经信息教育部重点实验室、高场磁共振脑成像四川省重点实验室等三个部(省)重点实验室,拥有 3T MR 脑成像中心,以及 EGI 及 Neuroscan 脑电工作站等具有国际水平的实验仪器设备。在脑功能成像技术及应用、视觉神经电生理、生物医学信号处理、医学成像与处理、生物信息学等方面成果显著。

一、培养目标

本学科硕士获得者应掌握生物医学信号处理的基本理论及技术、具有较好的计算机软硬件技术 知识,以及人体解剖和生理学等生物医学方面的基础知识,掌握一门外国语。具备独立从事生物医 学信号采集与处理、生物医学电子仪器的设计开发及相关基础研究的能力,能胜任在科研单位、生 产部门及高等院校从事研究、开发、教学工作。

留学研究生必修中国概况和综合汉语等课程,毕业时须通过《国际汉语能力标准》三级水平考试或通过同等难度的汉语水平考试

二、研究方向

- 1.脑功能与神经信息工程(含脑机接口、类脑技术等)
- 2.医疗设备、医学图像与信号处理
- 3.生物信息学
- 4.神经生物学
- 5.细胞生物学
- 6.生物化学与分子生物学

三、培养方式与学习年限

来华留学硕士研究生学制为两年。若因客观原因不能按时完成学业者,可申请适当延长学习年限,但最长学习年限不超过四年。

四、学分与课程学习基本要求

来华留学硕士研究生的培养实行导师负责制。导师负责指导研究生制定个人培养计划、选课、开展学位论文工作等。

来华留学硕士研究生的总学分要求不低于 26 学分,课程总学分不低于 24 学分,其中学位课不低于 15 学分;必修环节不低于 2 学分。公共基础课和专业基础课为必修课。开展学位论文工作,撰写一篇学位论文,通过答辩。

课程学习期间,应通过本专业规定的学位课程考试,以及其他选修课程的考试或考查。允许在导师指导下跨学科选修 1~2 门学位课作为本学科的学位课。有汉语基础者,可申请选修面向国内全日制研究生用中文讲授的专业课程,通过者获得相应学分。

未达到上述要求者,可以在一年内补修或重修有关课程,在规定期限内仍没有达到学分要求者,将被终止学业。

五、课程设置

课程	类别	课程编号	课程名称	学时	学分	开课 学期	备注
	公共	6900005001	综合汉语	60	2	1	必修
	基础课	6900005002	中国概况	40	2	2	必修
		1100016001	随机过程及应用	60	3	1	第1组,
学	基础课	1100016004	矩阵理论	60	3	1	必须选 1-
字 位		1107016005	数值分析	60	3	1/2	3 门
课		1404026004	认知神经科学	40	2	1	
床	±.11.	1407106009	高级分子生物学	40	2	1	
	专业 基础课	1407106010	生物信息学	40	2	1	
	- 茶仙床	1408316004	脑科学基础	40	2	2	
		1408316006	生物医学统计	40	2	2	
		0108106013	数字通信基础	40	2	2	
		0108106014	数字信号处理	40	2	1	
非	专业	0208096101	集成电路与设计	40	2	2	
学	选修课	0808126023	软件开发技术	40	2	1	
位		1404026006	心理物理实验	40	2	2	
课		1408316005	脑成像进展	40	2	2	
	其他	6900005003	汉语阅读与写作	60	2	2	
	选修课	XX0004XXXX	前沿与交叉课程	/	/	1/2	
ને .1 પ્ત_	, IT ++:	6400006003	学术活动	0	1	1,2	必修 不 少于5次
上	环节	XX00025XXX	素质教育公选课	0	1	1,2	必修
		6900006001	汉语水平测评	60	0	1,2	必修

说明:除规定的汉语课程以外,其他课程均采用英语授课。

六、必修环节

来华留学硕士研究生必修环节包含三大部分,要求留学研究生分别完成以下内容:

1)素质教育公选课:以介绍学术前沿知识、中外文化、艺术和体育等为主,加强来华留学研究生综合素质教育,可选修一门,考核通过后获1个学分。

- 2) 学术活动:为进一步活跃学术气氛并拓宽来华留学研究生的知识面,硕士研究生在校期间须参加 5 次以上校内外学术报告会,填写学术活动登记表,加盖举办学术活动单位的公章,报所在学院研究生科备案,全部完成后获得 1 学分。
- 3)汉语水平测评:教育部要求留学研究生在毕业时中文能力应至少达到《国际汉语能力标准》 三级水平。留学硕士研究生在校期间须接受汉语三级水平测评,达到要求者方可申请毕业论文答辩。 由国际教育学院进行水平认定。

七、学位论文

软件工程 来华留学硕士培养方案

软件工程学科是信息技术领域中发展最快的学科领域之一,软件产业也成为各国经济发展的支柱产业。软件工程领域总体发展形成了宽范围、多维度、多层次、多交叉的体系结构,知识领域包括软件需求、软件设计、软件构建、软件测试、软件维护、软件配置管理、软件项目管理、软件质量、软件安全、软件道德与法律等;也涉及到系统工程、领域工程、数字化技术、嵌入式系统、网络与信息安全,系统管理与支持、市场营销等多学科交叉领域。

一、培养目标

本学科培养以软件理论为基础,根据软件技术的发展和软件行业的需求,按照国际化软件开发标准与模式,培养掌握软件工程基本理论、熟悉软件技术及软件开发过程的研究型人才。

本学科硕士毕业生除了熟练掌握先进的程序设计技术、主流系统平台与工具,能遵循国际软件 开发规范与标准进行系统分析、设计和编程,具有一定的项目管理知识和能力,能熟练应用现代软件技术、方法和工具,从事软件工程领域及其他应用领域的系统与软件设计、开发、管理的研究性 工作外,还应对中国的历史与文化有初步的了解,能阅读简单的中文科技文献,并具有简单的汉语 对话能力。

二、研究方向

1.网络安全与网络工程 2.软件理论

3.嵌入式软件技术与应用 4.数字信息处理

5.云计算与大数据 6.智能计算

三、培养方式与学习年限

攻读硕士学位者,学习年限为两年。若因客观原因不能按时完成学业者,可申请适当延长学习 年限,但最长学习年限不超过四年。

四、学分与课程学习基本要求

总学分要求不低于 26 学分,课程总学分不低于 24 学分,其中学位课不低于 15 学分;必修环节不低于 2 学分。开展学位论文工作,撰写一篇学位论文,通过答辩。

留学研究生培养实行导师负责制。导师负责指导研究生制定个人培养计划、选课、开展研究报 告或学位论文工作。

课程学习期间,应通过本专业规定的学位课程考试,以及其他选修课程的考试或考查。公共基础课为必修课。允许在导师指导下跨学科选修 1~2 门学位课作为本学科的学位课。留学研究生必修中国概况和综合汉语等课程,毕业时须通过《国际汉语能力标准》三级水平考试或通过同等难度的汉语水平考试。

未达到上述要求者,可以在一年内补修或重修有关课程,在规定期限内仍没有达到学分要求者,

将被终止学业。

五、课程设置

课程	类别	课程编号	课程名称	学时	学分	开课 学期	备注
	公共	6900005001	综合汉语	60	2	1	必修
	基础课	6900005002	中国概况	40	2	2	必修
		1100016001	随机过程及应用	60	3	1	第1组,必
学		1100016004	矩阵理论	60	3	1	须选 1-3
位	<u>+ 11</u>	1107016005	数值分析	60	3	1/2	门
课	专业	0908356004	软件架构模型与设计	40	2	2	专业核心
	基础课	0908356007	嵌入式系统及应用	40	2	2	
		0908356009	网络计算导论	40	2	1	
		0908356010	网络安全: 理论与实践	40	2	1	
	专业	0908357009	面向对象系统分析与设计	40	2	2	
п.		0908357011	Android 应用程序开发	40	2	2	
非		0908357012	新型数据库理论与实践	40	2	1	
学	选修课	0908357014	数据科学与应用	40	2	2	
位 课		0908357015	计算机网络编程	40	2	2	
体	其他	6900005003	汉语阅读与写作	60	2	2	
	选修课	XX0004XXXX	前沿与交叉课程	/	/	1/2	
N. L.	TT-H-	6400006003	学术活动	0	1	1,2	必修 不 少于5次
必修		6900006001	汉语水平测评	60	0	1,2	必修
		XX00025XXX	素质教育公选课	0	1	1,2	必修

六、必修环节

来华留学硕士研究生必修环节包含三大部分,要求留学研究生分别完成以下内容:

- 1)素质教育公选课:以介绍学术前沿知识、中外文化、艺术和体育等为主,加强来华留学研究生综合素质教育,可选修一门,考核通过后获1个学分。
- 2) 学术活动:为进一步活跃学术气氛并拓宽来华留学研究生的知识面,硕士研究生在校期间须参加 5 次以上校内外学术报告会,填写学术活动登记表,加盖举办学术活动单位的公章,报所在学院研究生科备案,全部完成后获得 1 学分。
- 3)汉语水平测评:教育部要求留学研究生在毕业时中文能力应至少达到《国际汉语能力标准》三级水平。留学硕士/博士研究生在校期间须接受汉语三级水平测评,达到要求者方可申请毕业论文答辩。由国际教育学院进行水平认定。

七、学位论文

公共管理 来华留学硕士培养方案

公共管理是一门综合性强,研究范围广,极具实践价值的学科,本学科以政治学、管理学、社会学等学科为基础,对公共管理进行综合的全面研究,揭示公共组织、公共体制、公共伦理、公共决策、公共管理程式、公共管理方法与技术的一般规律和理论,研究公共管理的历史和现状,探索提高公共管理有效性的方法路径,注重总结世界各国在行政管理领域的经验,构建在信息化的条件下符合时代特征的新型行政管理模式,培养 21 世纪高质量、高水平的公共管理国际化人才。

一、培养目标

本学科硕士学位获得者应具有较强的管理学理论基础和系统的专业知识,能深入的掌握政治学理论、公共管理学、公共经济学、组织行为学、行政学等专业基础知识,具有较强的理论水平,掌握一门外国语和计算机工具,具有较强的分析问题解决问题的能力、组织管理能力和电子政务水平,并且拥有较高政治学和管理学理论素养,能够理论联系实际,同时具有严谨的科学态度和工作作风,能胜任政府部门、公共组织,社团组织、高等院校、国有企业行政管理工作。

留学研究生必修中国概况和综合汉语等课程,毕业时须通过《国际汉语能力标准》三级水平考试或通过同等难度的汉语水平考试。

二、研究方向

1.公共行政管理

2.公共政策研究

3.数字公共治理

4.城乡公共治理

三、培养方式与学习年限

攻读硕士学位者,学习年限为 2-4 年。若因客观原因不能按时完成学业者,可申请适当延长学习年限,但最长学习年限不超过 4 年。

四、学分与课程学习基本要求

总学分要求不低于 30 学分,课程总学分不低于 28 学分,其中学位课不低于 17 学分;必修环节不低于 2 学分。开展学位论文工作,撰写一篇学位论文(含研究报告),通过答辩。

留学研究生培养实行导师负责制。导师负责指导研究生制定个人培养计划、选课、开展研究报 告或学位论文工作。

课程学习期间,应通过本专业规定的学位课程考试,以及其他选修课程的考试或考查。学位课中,公共基础课、专业基础课为必修课。允许在导师指导下跨学科选修 1~2 门学位课作为本学科的学位课。有汉语基础者,可申请选修面向国内全日制研究生用中文讲授的专业课程,通过者获得相应学分。

未达到上述要求者,可以在一年内补修或重修有关课程,在规定期限内仍没有达到学分要求者,将被终止学业。

五、 课程设置

课程	星类别	课程编号	课程名称	学时	学分	开课 学期	备注
	公共	6900005001	综合汉语	60	2	1	必修
	基础课	6900005002	中国概况	40	2	2	必修
	位生业	1612046011	公共管理学	48	3	1	
		1612046012	公共行政学经典文献选读	48	3	1	
学		1612046013	社会科学研究方法	32	2	1	
位		1612046015	公共经济学	32	2	2	
课		1612046016	电子政务	32	2	2	
	基础保	1612046017	公共人力资源管理	32	2	2	
		1612046018	比较政府与政治	40	2.5	2	
		1612046019	全球化与世界政治	32	2	1	
		1612046020	公共政策	40	2.5	2	
非	专业	1612047011	政府与传媒	32	2	2	
学	选修课	1612047012	学术论文写作	20	1	1	必修
位	其他	6900005003	汉语阅读与写作	60	2	2	
课	选修课	XX0004XXXX	前沿与交叉课程	/	/	1/2	
	•						必修
必修	逐环 节	6400006003	学术活动	0	1	1,2	不少于5
		6900006001	汉语水平测评	60	0	1,2	必修
		XX00025XXX	素质教育公选课	0	1	1,2	必修

说明:除规定的汉语课程以外,其他课程均采用英语授课。

六、必修环节

来华留学硕士研究生必修环节包含三大部分,要求留学研究生分别完成以下内容:

- 1)素质教育公选课:以介绍学术前沿知识、中外文化和艺术等为主,加强来华留学研究生综合素质教育,研究生可选修一门,考核通过后获1个学分。
- 2) 学术活动:为进一步活跃学术气氛并拓宽来华留学研究生的知识面,硕士研究生在校期间须参加 5 次以上校内外学术报告会,填写学术活动登记表,有举办学术活动单位的公章为依据,报所在学院研究生科备案,全部完成后获得 1 学分。
- 3)汉语水平测评:教育部要求留学研究生在毕业时中文能力应至少达到《国际汉语能力标准》三级水平。留学硕士/博士研究生在校期间须接受汉语三级水平测评,达到要求者方可申请毕业论文答辩。由国际教育学院进行水平认定。

七、学位论文

物理学 来华留学博士培养方案

物理学是研究物质及其运动的自然科学,揭示物质的结构、物质之间的相互作用和物质的运动 规律,为理解自然界奠定坚实的基础。物理学新方法、新理论是众多新技术、新产品的重要源头。

电子科技大学物理学院拥有物理学一级学科博士学位授予权,设有博士后流动站。本学科依托 物理学研究和与其它学科的交叉领域的研究,支撑相关工程技术的研发,提升学生对物理知识的掌握,培养合格的科技人才,促进服务于经济发展的高技术研究。本学科包含理论物理、凝聚态物理、无线电物理、光学、等离子体物理、量子物理与量子信息等六个优势学科方向,具有较强的基础研究能力和理工渗透、协调发展的明显特色,取得良好的学术声誉。物理学院致力于在高科技时代中发挥关键作用。

本学科课程体系立足于物理学学科,培养学生在宽口径职业方向的领导潜能,培养学生获取物理学基础知识和新兴知识的能力,培养学生解决与工业发展有关实际问题的能力。

一、培养目标

本学科博士学位获得者应对相关领域研究前沿和发展趋势有较深入的了解,具有相关学科较深厚的基础理论和系统专门的知识,掌握相关的实验技能,熟练运用计算机及相关信息技术,具备独立、创新性地从事相应学科中的相关课题研究的能力,有严谨的科学态度、工作作风和高尚的职业道德,毕业后能胜任科研、技术开发以及高校教学等工作。

留学研究生必修中国概况和综合汉语等课程,毕业时须通过《国际汉语能力标准》三级水平考试或通过同等难度的汉语水平考试。

二、研究方向

1.理论物理 2.凝聚态物理

3.无线电物理 4.光学

5.等离子体物理 6.量子物理与量子信息

三、培养方式与学习年限

学习年限:

攻读博士学位者,学习年限为三年。若因客观原因不能按时完成学业者,可申请延长学习年限,但最长学习年限不超过六年。

四、学分与课程学习基本要求

留学博士研究生培养方式:

- 1.脱产培养。整个培养过程均在我校完成;
- 2.在职培养。课程学习在我校完成,论文工作可在留学生本国完成,但在我校从事论文研究的时间累计不得少于一年。两种培养方式的论文答辩均须在我校完成。

留学博士研究生培养实行导师负责制。导师负责指导研究生制定个人培养计划、选课、开展学位论文工作。总学分要求不低于 14 学分,课程总学分不低于 12 学分,其中学位课不低于 8 学分;必修环节不低于 2 学分。课程学习期间,应通过本专业规定的学位课程考试,以及其他选修课程的考试或考查。公共基础课为必修课。允许在导师指导下跨学科选修 1~2 门学位课作为本学科的学位课。有汉语基础者,可申请选修面向国内全日制研究生用中文讲授的专业课程,通过者获得相应学分。

未完成课程学习的学分要求者,不能参加论文答辩。

五、课程设置

课程	类别	课程编号	课程名称	学时	学分	开课 学期	备注
	公共	6900005001	综合汉语	60	2	1	必修
	基础课	6900005002	中国概况	40	2	2	必修
学		1107016004	最优化理论与应用	50	2.5	1	至少选
字 位		1107016007	数值代数	50	2.5	2	一门
课	专业	0208096106	高等电磁场理论	60	3	1	
体	基础课	1207026002	量子场论(一)	50	2.5	1	
		1207026006	高等量子力学	60	3	2	
		1207026026	广义相对论	40	2	2	
-11-	+	1207027017	弦理论	40	2	2	
非学	专业 选修课	1207027028	纳米光学	40	2	2	
子 位	2000年	1207027029	量子场论 (二)	50	2.5	2	
课	其他选 修课	6900005003	汉语阅读与写作	60	2	2	
		6400006003	学术活动	0	1	1,2	必修 不少于 10 次
必修	环节	6400006004	论文开题报告及文献阅读综述 I	0	0	1,2	必修
		6400006005	博士综合考试	0	0	1,2	必修
		6900006001	汉语水平测评	60	0	1,2	必修
		XX00025XXX	素质教育公选课	0	1	1,2	必修

说明:除规定的汉语课程以外,其他课程均采用英语授课。

六、必修环节

来华留学博士研究生必修环节包含五大部分,要求留学研究生分别完成以下内容:

- 1)素质教育公选课:以介绍学术前沿知识、中外文化、艺术和体育等为主,加强来华留学研究生综合素质教育,须至少获得1个学分。
- 2) 学术活动:为进一步活跃学术气氛并拓宽来华留学研究生的知识面,博士研究生应广泛参加 学术活动,在校期间须参加 10 次以上校内外学术报告会,填写学术活动登记表,加盖举办学术活动

单位的公章, 报所在学院研究生科备案, 全部完成后获得1学分。

- 3)博士生综合考试是博士生修完课程后进行的、主要考查博士生有关基础理论和专业知识的综合考试,同时适当检查博士生对所研究方向及有关领域前沿动态的掌握程度。
- (1) 博士生一般应于入学一年后参加综合考试。综合考试未通过者,允许在下一年参加一次补 考,补考仍未通过者,不得参加论文答辩,作退学处理。
- (2)博士生综合考试由学位评定分委员会指定三名专家组成的考试委员会负责实施。考试委员会主席必须由教授以上职称的专家担任,考试委员会其他成员必须由副教授以上职称的专家担任。
- (3)综合考试采用笔试和口试相结合的方式,以百分制评定成绩。其中笔试成绩所占比例不得低于50%。
- (4)各学科根据实际情况每年集中举行两次综合考试,时间定在每年的四月和十月。综合考试的试题、试卷、口试记录及评语等由所在学院研究生秘书收齐后,与成绩一并报研究生院教学管理科备案保存。
- 4) 论文开题报告及文献阅读综述:指博士研究生在学位论文开题之前,必须阅读本学科前沿的文献 30 篇以上,并写出 5000 字左右的文献综述报告,完成相应的开题报告。
- 5)汉语水平测评:教育部要求留学研究生在毕业时中文能力应至少达到《国际汉语能力标准》三级水平。留学硕士/博士研究生在校期间须接受汉语三级水平测评,达到要求者方可申请毕业论文答辩。由国际教育学院进行水平认定。

七、学位论文

学位论文工作按照《电子科技大学研究生学位授予实施细则》的规定执行。

.

机械工程 来华留学博士培养方案

机械工程是以自然科学和工程技术科学为理论基础的一级学科,系统研究和解决现代社会生产和服务过程中的机械设计、制造、控制、使用和维修的相关理论和实际问题。本学科涵盖机械设计及理论、机械制造及其自动化、机械电子工程等研究方向,形成了机械、电子信息和计算机测控技术等多学科交叉综合的学科优势。

一、培养目标

本学科博士学位获得者应对本学科研究前沿和发展趋势有系统深入的了解,在机电系统设计、制造、测控等特定方向具有坚实宽广的理论基础,具有独立完成本学科相关实验研究与工程实践能力,能应用英语撰写高水平学术论文,并能在国际会议上进行交流。能独立从事科学研究,承担相关的研究和开发课题,具备成为学术带头人或项目负责人的素质。

本学科博士学位获得者应必修中国概况和综合汉语等课程,毕业时须通过《国际汉语能力标准》 三级水平考试或通过同等难度的汉语水平考试。

二、研究方向

- 1.装备可靠性与设备监控管理
- 2.智能制造与装备
- 3.智能感知与控制技术
- 4.装备智能设计与仿真

三、培养方式与学习年限

攻读博士学位者,学习年限为三年。若因客观原因不能按时完成学业者,可申请延长学习年限,但最长学习年限不超过六年。

四、学分与课程学习基本要求

留学博士研究生培养方式:

- 1.脱产培养。整个培养过程均在我校完成:
- 2.在职培养。课程学习在我校完成,论文工作可在留学生本国完成,但在我校从事论文研究的时间累计不得少于一年。两种培养方式的论文答辩均须在我校完成。

留学博士研究生培养实行导师负责制。导师负责指导研究生制定个人培养计划、选课、开展学 位论文工作。

总学分要求不低于 14 学分,课程总学分不低于 12 学分,其中学位课不低于 8 学分;必修环节不低于 2 学分。课程学习期间,应通过本专业规定的学位课程考试,以及其他选修课程的考试或考查。公共基础课为必修课。允许在导师指导下跨学科选修 1~2 门学位课作为本学科的学位课。学位课可代替非学位课,但非学位课不能替代学位课。有汉语基础者,可申请选修面向国内全日制研究生用中文讲授的专业课程,通过者获得相应学分。

未完成课程学习的学分要求者,不能参加论文答辩。

五、课程设置

课程	类别	课程编号	课程名称	学时	学分	开课 学期	备注
	公共	6900005001	综合汉语	60	2	1	必修
	基础课	6900005002	中国概况	40	2	2	必修
学		1107016004	最优化理论与应用	50	2.5	1	必须选
位	± .II.	1107016005	数值分析	60	3	1/2	1-2门
课	专业	0408026009	微机电系统	40	2	1	
	基础课	0408026010	先进制造技术	40	2	1	
		0808126020	嵌入式操作系统及应用	40	2	2	
		0108106007	信号检测与估计	40	2	1	
非	专业	0408027013	可靠性设计	40	2	2	
学	选修课	0408027018	机械动力学	40	2	2	
位		1008116004	系统工程理论与方法	40	2	1	
课	其他 选修课	6900005003	汉语阅读与写作	60	2	2	
		6400006003	学术活动	0	1	1,2	必修 不少于 10 次
必修	:环节	6400006004	论文开题报告及文献阅读综述 I	0	0	1,2	必修
		6400006005	博士综合考试	0	0	1,2	必修
		6900006001	汉语水平测评	60	0	1,2	必修
		XX00025XXX	素质教育公选课	0	1	1,2	必修

研究生课程主要划分为公共基础课、专业必修课、专业选修课、其他选修课四部分。

六、必修环节

来华留学博士研究生必修环节包含五大部分,要求留学研究生分别完成以下内容:

- 1)素质教育公选课:以介绍学术前沿知识、中外文化、艺术和体育等为主,加强来华留学研究生综合素质教育,须至少获得1个学分。
- 2) 学术活动:为进一步活跃学术气氛并拓宽来华留学研究生的知识面,博士研究生应广泛参加学术活动,在校期间须参加 10 次以上校内外学术报告会,填写学术活动登记表,加盖举办学术活动单位的公章,报所在学院研究生科备案,全部完成后获得 1 学分。
- 3)博士生综合考试是博士生修完课程后进行的、主要考查博士生有关基础理论和专业知识的综合考试,同时适当检查博士生对所研究方向及有关领域前沿动态的掌握程度。
- (1)博士生一般应于入学一年后参加综合考试。综合考试未通过者,允许在下一年参加一次补 考,补考仍未通过者,不得参加论文答辩,作退学处理。
- (2)博士生综合考试由学位评定分委员会指定三名专家组成的考试委员会负责实施。考试委员会主席必须由教授以上职称的专家担任,考试委员会其他成员必须由副教授以上职称的专家担任。
 - (3)综合考试采用笔试和口试相结合的方式,以百分制评定成绩。其中笔试成绩所占比例不得

低于 50%。

- (4)各学科根据实际情况每年集中举行两次综合考试,时间定在每年的四月和十月。综合考试的试题、试卷、口试记录及评语等由所在学院研究生秘书收齐后,与成绩一并报研究生院教学管理科备案保存。
- 4) 论文开题报告及文献阅读综述:指博士研究生在学位论文开题之前,必须阅读本学科前沿的文献 30 篇以上,并写出 5000 字左右的文献综述报告,完成相应的开题报告。
- 5) 汉语水平测评:教育部要求留学研究生在毕业时中文能力应至少达到《国际汉语能力标准》 三级水平。留学硕士/博士研究生在校期间须接受汉语三级水平测评,达到要求者方可申请毕业论文 答辩。由国际教育学院进行水平认定。

七、学位论文

光学工程 来华留学博士培养方案

光学工程学科主要研究光信息获取、光存储、光传输、光交换、光信息处理以及光电图像显示等方向领域,在军事及民用领域有广泛的应用,是信息产业的重要支柱学科之一。

我校光学工程主要从事光学工程学科的理论及其相关应用方面的教学与科研,特别在光通信、 集成光学与光电子器件、红外与传感技术、平板显示与成像技术等方面具有特色和优势,处于国内 前列、国际先进。

光学工程学科在全国高校第四轮学科评估中获评 A 类学科。

一、培养目标

本学科博士学位获得者应对本学科研究前沿和发展趋势有系统深入的了解,在光学工程学科方面有坚实宽广的理论基础,具有独立完成本学科相关实验研究的能力,能熟练使用计算机,能撰写高水平学术论文,并能在国际会议上进行交流。有严谨求实的科学态度和工作方法,能独立从事科学研究,对本学科某方面具有深入研究并取得独创性成果,能独立承担相关的研究和开发课题,具备成为学术带头人或项目负责人的素质。

留学研究生必修中国概况和综合汉语等课程,毕业时须通过《国际汉语能力标准》三级水平考试或通过同等难度的汉语水平考试。

二、研究方向

1.光通信与集成光学 2.光电探测与系统集成

3.敏感电子学与传感网 4.显示与成像

5.微波光子学 6.光电测控与仪器

三、培养方式与学习年限

留学博士研究生培养方式:

- 1.脱产培养。整个培养过程均在我校完成;
- 2.在职培养。课程学习在我校完成,论文工作可在留学生本国完成,但在我校从事论文研究的时间累计不得少于一年。两种培养方式的论文答辩均须在我校完成。

留学博士研究生培养实行导师负责制。导师负责指导研究生制定个人培养计划、选课、开展学 位论文工作。

攻读博士学位者,学习年限为三年。若因客观原因不能按时完成学业者,可申请延长学习年限,但最长学习年限不超过六年。

四、学分与课程学习基本要求

总学分要求不低于 14 学分,课程总学分不低于 12 学分,其中学位课不低于 8 学分;必修环节不低于 2 学分。课程学习期间,应通过本专业规定的学位课程考试,以及其他选修课程的考试或考

查。学位课中,公共基础课为必修课。允许在导师指导下跨学科选修 1~2 门学位课作为本学科的学位课。有汉语基础者,可申请选修面向国内全日制研究生用中文讲授的专业课程,通过者获得相应学分。

未完成课程学习的学分要求者,不能参加论文答辩。

五、课程设置

课程	类别	课程编号	课程名称	学时	学分	开课 学期	备注
	公共	6900005001	综合汉语	60	2	1	必修
	基础课	6900005002	中国概况	40	2	2	必修
3)/4		1107016004	最优化理论与应用	50	2.5	1	必须选
学		1107016005	数值分析	60	3	1/2	1-2门
位 课	专业	0108106020	光纤通信	30	1.5	2	
床	基础课	0208096106	高等电磁场理论	60	3	1	
		0508036001	光电子技术	40	2	1	
		0508036021	光纤光学	30	1.5	1	
		0108106007	信号检测与估计	40	2	1	
11	+.11.	0108107026	光纤技术	40	2	1	
非	专业	0508037029	光电子学与光子学	20	1	1	
学 位	选修课	0508037033	有机电子学	20	1	2	
课		1207026016	纳米光学	40	2	1,2	
	其他 选修课	6900005003	汉语阅读与写作	60	2	2	
		6400006003	学术活动	0	1	1,2	必修
		6400006004	论文开题报告及文献阅读综述 I	0	0	1,2	必修
必修	环节	6400006005	博士综合考试	0	0	1,2	必修
		6900006001	汉语水平测评	60	0	1,2	必修
		XX00025XXX	素质教育公选课	0	1	1,2	必修

说明:除规定的汉语课程以外,其他课程均采用英语授课。

六、必修环节

来华留学博士研究生必修环节包含五大部分,要求留学研究生分别完成以下内容:

- 1)素质教育公选课:以介绍学术前沿知识、中外文化、艺术和体育等为主,加强来华留学研究生综合素质教育,须至少获得1个学分。
- 2) 学术活动:为进一步活跃学术气氛并拓宽来华留学研究生的知识面,博士研究生应广泛参加学术活动,在校期间须参加 10 次以上校内外学术报告会,填写学术活动登记表,加盖举办学术活动单位的公章,报所在学院研究生科备案,全部完成后获得 1 学分。
- 3)博士生综合考试是博士生修完课程后进行的、主要考查博士生有关基础理论和专业知识的综合考试,同时适当检查博士生对所研究方向及有关领域前沿动态的掌握程度。
 - (1) 博士生一般应于入学一年后参加综合考试。综合考试未通过者,允许在下一年参加一次补

- 考,补考仍未通过者,不得参加论文答辩,作退学处理。
- (2)博士生综合考试由学位评定分委员会指定三名专家组成的考试委员会负责实施。考试委员会主席必须由教授以上职称的专家担任,考试委员会其他成员必须由副教授以上职称的专家担任。
- (3)综合考试采用笔试和口试相结合的方式,以百分制评定成绩。其中笔试成绩所占比例不得低于 50%。
- (4)各学科根据实际情况每年集中举行两次综合考试,时间定在每年的四月和十月。综合考试的试题、试卷、口试记录及评语等由所在学院研究生秘书收齐后,与成绩一并报研究生院教学管理科备案保存。
- 4)论文开题报告及文献阅读综述:指博士研究生在学位论文开题之前,必须阅读本学科前沿的文献 30 篇以上,并写出 5000 字左右的文献综述报告,完成相应的开题报告。
- 5)汉语水平测评:教育部要求留学研究生在毕业时中文能力应至少达到《国际汉语能力标准》 三级水平。留学博士研究生在校期间须接受汉语三级水平测评,达到要求者方可申请毕业论文答辩。 由国际教育学院进行水平认定。

七、学位论文

材料科学与工程 来华留学博士培养方案

"材料科学与工程"是研究材料的组成、结构、制备工艺与其性能及应用间相互关系的科学与技术,研究对象包括电、磁、声、光、热、力及生物等功能材料的理论、设计、制备、检测及应用,研究过程涉及到信息的获取、转换、存储、处理与控制。我校是首批"双一流"A类建设高校,电子信息材料及应用的研究和开发是本学科的特色和优势。本学科现有国家级人才、博士生导师、教授、副教授以及一批青年博士组成的学术队伍,拥有先进的实验设备和充足的科研经费。

随着科学技术的发展,本学科与其它学科的交叉越来越紧密,同时,作为当代文明的重要支柱,本学科已成为现代科学技术发展的先导和基础,与当代社会发展有着极为密切的依存关系。

一、培养目标

博士学位获得者应具有一定的汉语听、说、读、写能力,对本学科研究前沿和发展趋势有系统深入的了解,在材料科学与工程方面有坚实宽广的理论基础,具有独立完成本学科相关实验研究与工程实践能力,能应用英语撰写高水平学术论文,并能在国际会议上进行交流。能独立从事科学研究,承担相关的研究和开发课题,具备成为学术带头人或项目负责人的素质,能胜任在科研单位、产业部门或高等院校有关方面的研究、科研开发,教学和技术管理工作。

二、研究方向

1.电子信息材料与器件

2.材料基因工程

3.电子薄膜与集成器件

4.新能源材料与器件

5.印制电路与印制电子技术

6.有机功能材料与工程

三、 培养方式与学习年限

留学博士研究生培养方式:

- 1.脱产培养。整个培养过程均在我校完成;
- 2.在职培养。课程学习在我校完成,论文工作可在留学生本国完成,但在我校从事论文研究的时间累计不得少于一年。两种培养方式的论文答辩均须在我校完成。

留学博士研究生培养实行导师负责制。导师负责指导研究生制定个人培养计划、选课、开展学位论文工作。

攻读博士学位者,学习年限为三年。若因客观原因不能按时完成学业者,可申请延长学习年限,但最长学习年限不超过六年。

四、学分与课程学习基本要求

总学分要求不低于 14 学分,课程总学分不低于 12 学分,其中学位课不低于 8 学分;必修环节不低于 2 学分。课程学习期间,应通过本专业规定的学位课程考试,以及其他选修课程的考试或考查。公共基础课为必修课。允许在导师指导下跨学科选修 1~2 门学位课作为本学科的学位课。有汉

语基础者,可申请选修面向国内全日制研究生用中文讲授的专业课程,通过者获得相应学分。留学研究生必修中国概况和综合汉语等课程,毕业时须通过《国际汉语能力标准》三级水平考试或通过同等难度的汉语水平考试。

未完成课程学习的学分要求者,不能参加论文答辩。

五、课程设置

课	程类别	课程编号	课程名称	学时	学分	开课 学期	备注			
	公共	6900005001	综合汉语	60	2	1	必修			
学	基础课	6900005002	中国概况	40	2	2	必修			
分位		1107016004	最优化理论与应用	50	2.5	1	至少选1门			
课	专业	1107016007	数值代数	50	2.5	2	主少匹工门			
	基础课	0208096106	高等电磁场理论	60	3	1				
		0208096107	微波工程	40	2	2				
		0108106007	信号检测与估计	40	2	1				
		0208096104	射频集成电路设计	40	2	2				
1L		+ .11.	+	+ .11.	0208097019	高等数字集成电路设计	40	2	2	全英文,中外 共选
非学	专业 选修课	0208097020	集成电路仿真与自动化设计基础	40	2	1				
子位		0308057010	材料设计与计算	30	1.5	2	全英文,中外			
课		0308057016	Optoelectronic Conversion from Fundamental to Devices	20	1	2	共选			
		0308177009	实验室安全与消防安全	20	1	1				
	其他 选修课	6900005003	汉语阅读与写作	60	2	2				
		6400006003	学术活动	0	1	1,2	必修			
		6400006004	论文开题报告及文献阅读综述 I	0	0	1,2	必修			
必	修环节	6400006005	博士综合考试	0	0	1,2	必修			
		XX00025XXX	素质教育公选课	0	1	1,2	必修			
		6900006001	汉语水平测评	60	0	1,2	必修			

六、必修环节

来华留学博士研究生必修环节包含五大部分,要求留学研究生分别完成以下内容:

- 1) 素质教育公选课:以介绍学术前沿知识、中外文化、艺术和体育等为主,加强来华留学研究生综合素质教育,须至少获得1个学分。
- 2) 学术活动:为进一步活跃学术气氛并拓宽来华留学研究生的知识面,博士研究生应广泛参加学术活动,在校期间须参加 10 次以上校内外学术报告会,填写学术活动登记表,加盖举办学术活动单位的公章,报所在学院研究生科备案,全部完成后获得 1 学分。
- 3)博士生综合考试是博士生修完课程后进行的、主要考查博士生有关基础理论和专业知识的综合考试,同时适当检查博士生对所研究方向及有关领域前沿动态的掌握程度。

- (1) 博士生一般应于入学一年后参加综合考试。综合考试未通过者,允许在下一年参加一次补 考,补考仍未通过者,不得参加论文答辩,作退学处理。
- (2)博士生综合考试由学位评定分委员会指定三名专家组成的考试委员会负责实施。考试委员会主席必须由教授以上职称的专家担任,考试委员会其他成员必须由副教授以上职称的专家担任。
- (3)综合考试采用笔试和口试相结合的方式,以百分制评定成绩。其中笔试成绩所占比例不得低于 50%。
- (4)各学科根据实际情况每年集中举行两次综合考试,时间定在每年的四月和十月。综合考试的试题、试卷、口试记录及评语等由所在学院研究生秘书收齐后,与成绩一并报研究生院教学管理科备案保存。
- 4)论文开题报告及文献阅读综述:指博士研究生在学位论文开题之前,必须阅读本学科前沿的文献30篇以上,近5年文献不低于1/3,并写出5000字左右的文献综述报告,完成相应的开题报告。
- 5)汉语水平测评:教育部要求留学研究生在毕业时中文能力应至少达到《国际汉语能力标准》 三级水平。留学博士研究生在校期间须接受汉语三级水平测评,达到要求者方可申请毕业论文答辩。 由国际教育学院进行水平认定。

七、学位论文

学位论文工作按照《电子科技大学研究生学位授予实施细则》的规定执行。来华留学生的答辩 语言统一为英语。

电子科学与技术 来华留学博士培养方案

电子科学与技术是进入国家"双一流"建设的重点一级学科,包含电磁场与微波技术、电路与系统、物理电子学、微电子学与固体电子学、电子信息材料与元器件等 5 个二级学科。该学科师资力量雄厚,在各个研究方向上都具有高水平的科研实力和广泛的国际学术影响。

一、培养目标

博士学位获得者应具有一定的汉语听、说、读、写能力,对本学科研究前沿和发展趋势有系统深入的了解,在电子科学与技术方面有坚实宽广的理论基础,具有独立完成本学科相关实验研究与工程实践能力,能应用英语撰写高水平学术论文,并能在国际会议上进行交流。能独立从事科学研究,承担相关的研究和开发课题,具备成为学术带头人或项目负责人的素质,能胜任在科研单位、产业部门或高等院校有关方面的研究、科研开发,教学和技术管理工作。留学研究生必修中国概况和综合汉语等课程,毕业时须通过《国际汉语能力标准》三级水平考试或通过同等难度的汉语水平考试。

二、研究方向

- 1.电磁场与微波技术
- 3.电子信息材料与元器件
- 5.物理电子学

- 2.集成电路与系统
- 4.微电子与固体电子

三、培养方式与学习年限

留学博士研究生培养方式:

- 1.脱产培养。整个培养过程均在我校完成:
- 2.在职培养。课程学习在我校完成,论文工作可在留学生本国完成,但在我校从事论文研究的时间累计不得少于一年。两种培养方式的论文答辩均须在我校完成。

留学博士研究生培养实行导师负责制。导师负责指导研究生制定个人培养计划、选课、开展学 位论文工作。

攻读博士学位者,学习年限为三年。若因客观原因不能按时完成学业者,可申请延长学习年限,但最长学习年限不超过六年。

四、学分与课程学习基本要求

总学分要求不低于 14 学分,课程总学分不低于 12 学分,其中学位课不低于 8 学分;必修环节不低于 2 学分。课程学习期间,应通过本专业规定的学位课程考试,以及其他选修课程的考试或考查。公共基础课为必修课。允许在导师指导下跨学科选修 1~2 门学位课作为本学科的学位课。有汉语基础者,可申请选修面向国内全日制研究生用中文讲授的专业课程,通过者获得相应学分。未完成课程学习的学分要求者,不能参加论文答辩。

五、课程设置

课程	类别	课程编号	课程名称	学时	学分	开课 学期	备注
	公共	6900005001	综合汉语	60	2	1	必修
	基础课	6900005002	中国概况	40	2	2	必修
学		1107016004	最优化理论与应用	50	2.5	1	必须选
位 课	专业	1107016007	数值代数	50	2.5	2	1-2门
床	基础课	0208096106	高等电磁场理论	60	3	1	
		0208096107	微波工程	40	2	2	
		0108106007	信号检测与估计	40	2	1	
11	± .II.	0208096104	射频集成电路设计	40	2	2	
非 学 位	专业 选修课	0208096109	声波表面和体声波器件在通信中 的应用	40	2	2	
课		0208097010	柔性 MEMS 系统与集成	40	2	2	
K	其他	6900005003	汉语阅读与写作	60	2	2	
	选修课	XX0004XXXX	前沿与交叉课程	/	/	1/2	
		6400006003	学术活动	0	1	1,2	必修 不少于 10次
必修	环节	6400006004	论文开题报告及文献阅读综述 I	0	0	1,2	必修
		6400006005	博士综合考试	0	0	1,2	必修
		6900006001	汉语水平测评	60	0	1,2	必修
		XX00025XXX	素质教育公选课	0	1	1,2	必修

说明: 除规定的汉语课程以外, 其他课程均采用英语授课。

六、必修环节

来华留学博士研究生必修环节包含五大部分,要求留学研究生分别完成以下内容:

- 1)素质教育公选课:以介绍学术前沿知识、中外文化、艺术和体育等为主,加强来华留学研究生综合素质教育,须至少获得1个学分。
- 2) 学术活动:为进一步活跃学术气氛并拓宽来华留学研究生的知识面,博士研究生应广泛参加学术活动,在校期间须参加 10 次以上校内外学术报告会,填写学术活动登记表,加盖举办学术活动单位的公章,报所在学院研究生科备案,全部完成后获得 1 学分。
- 3)博士生综合考试是博士生修完课程后进行的、主要考查博士生有关基础理论和专业知识的综合考试,同时适当检查博士生对所研究方向及有关领域前沿动态的掌握程度。
- (1) 博士生一般应于入学一年后参加综合考试。综合考试未通过者,允许在下一年参加一次补考,补考仍未通过者,不得参加论文答辩,作退学处理。
- (2)博士生综合考试由学位评定分委员会指定三名专家组成的考试委员会负责实施。考试委员会主席必须由教授以上职称的专家担任,考试委员会其他成员必须由副教授以上职称的专家担任。
 - (3)综合考试采用笔试和口试相结合的方式,以百分制评定成绩。其中笔试成绩所占比例不得

低于 50%。

- (4)各学科根据实际情况每年集中举行两次综合考试,时间定在每年的四月和十月。综合考试的试题、试卷、口试记录及评语等由所在学院研究生秘书收齐后,与成绩一并报研究生院教学管理科备案保存。
- 4) 论文开题报告及文献阅读综述:指博士研究生在学位论文开题之前,必须阅读本学科前沿的文献 30 篇以上,并写出 5000 字左右的文献综述报告,完成相应的开题报告。
- 5) 汉语水平测评:教育部要求留学研究生在毕业时中文能力应至少达到《国际汉语能力标准》 三级水平。留学硕士/博士研究生在校期间须接受汉语三级水平测评,达到要求者方可申请毕业论文 答辩。由国际教育学院进行水平认定。

七、学位论文

学位论文工作按照《电子科技大学研究生学位授予实施细则》的规定执行。来华留学生的答辩语言统一为英语。

信息与通信工程 来华留学博士培养方案

电子科技大学"信息与通信工程"一级学科是国家重点学科,包含 2 个二级学科,即属于国家重点学科与长江学者计划特聘教授设岗的两个二级学科"通信与信息系统"和"信号与信息处理"。我校"信息与通信工程"相关学科是国内首批获博士学位授予权、首批设立博士后流动站的学科,也是首批"211 工程"、"985 工程"重点建设学科及"双一流"重点建设学科,2012 年本学科在教育部学科评估中排名第 2,在 2017 年教育部公布的第四轮一级学科评估结果中被评为 A+。拥有中国工程院院士 2人,千人计划入选者 8人,全国教学名师 2人,长江学者 5人,国家杰出青年科学基金获得者 2人,青年千人计划入选者 9人,国家青年拔尖人才支持计划入选者 1人。本学科研究团队在国内外享有良好声誉。本学科具有国家级重点实验室、教育部重点实验室、"111"学科引智基地等等具有国际一流水平的学术研究与人才培养平台。

本学科与电子科学与技术、计算机科学与技术、控制科学与工程、仪器科学与技术等学科的研究领域密切相关。

一、培养目标

本学科博士学位获得者应对本学科研究前沿和发展趋势有系统深入的了解,在通信学科方面有坚实宽广的理论基础,具有独立完成本学科相关实验研究的能力,了解国内外信息与通信工程学科某一领域的新技术和发展动向,创新性地解决本学科的学术或技术问题,能熟练使用计算机,能撰写高水平学术论文,并能在国际会议上进行交流。有严谨求实的科学态度和工作方法,能独立从事科学研究,对本学科某方面具有深入研究并取得独创性成果,能独立承担相关的研究和开发课题,具备成为学术带头人或项目负责人的素质。

留学研究生必修中国概况和综合汉语等课程,毕业时须通过《国际汉语能力标准》三级水平考试或通过同等难度的汉语水平考试。

二、研究方向

1.无线与移动通信系统 2.抗干扰与安全通信系统

3.雷达探测与成像识别 4.智能通信网络与信息处理

5.光纤传感与通信 6.图像与视频处理

7.通信集成电路与系统 8.智能感知与信息系统

9.机器学习与人工智能 10.信号与信息智能处理

三、培养方式与学习年限

留学博士研究生培养方式:

1.脱产培养。整个培养过程均在我校完成。

2.在职培养。课程学习在我校完成,论文工作可在留学生本国完成,但在我校从事论文研究的

时间累计不得少于一年。两种培养方式的论文答辩均须在我校完成。

留学博士研究生培养实行导师负责制。导师负责指导研究生制定个人培养计划、选课、开展学位论文工作。

攻读博士学位者,学习年限为3年。若因客观原因不能按时完成学业者,可申请延长学习年限,但最长学习年限不超过6年。

四、学分与课程学习基本要求

总学分要求不低于 14 学分,课程总学分不低于 12 学分,其中学位课不低于 8 学分;必修环节不低于 2 学分。课程学习期间,应通过本专业规定的学位课程考试,以及其他选修课程的考试或考查。公共基础课为必修课。允许在导师指导下跨学科选修 1~2 门学位课作为本学科的学位课。有汉语基础者,可申请选修面向国内全日制研究生用中文讲授的专业课程,通过后获得相应学分。

未完成课程学习的学分要求者,不能参加论文答辩。

五、课程设置

课程	类别	课程编号	课程名称	学时	学分	开课 学期	备注
	公共	6900005001	综合汉语	60	2	1	必修
	基础课	6900005002	中国概况	40	2	2	必修
		1107016004	最优化理论与应用	50	2.5	1	第1组,
学 位		1107016007	数值代数	50	2.5	2	必须选 1-2门
课	专业	0108106013	数字通信基础	40	2	2	
	基础课	0108106014	数字信号处理	40	2	1	
		0108106020	光纤通信	30	1.5	2	
		0808126023	软件开发技术	40	2	1	
		0108106007	信号检测与估计	40	2	1	
		0108107013	模糊逻辑	40	2	2	
	专业 选修课	0108107026	光纤技术	40	2	1	
		0108107027	计算智能方法及其应用	30	1.5	2	
非学位		0108107032	信号处理和数据分析中的应用 矩阵方法	40	2	2	
课		0208096101	集成电路与设计	40	2	2	
		0808126007	大数据分析与挖掘	40	2	2	
		1008256008	系统工程理论与方法	40	2	1	
	其他 选修课	6900005003	汉语阅读与写作	60	2	2	
		1600006011	论文开题报告及文献阅读综述	0	1	1,2	必修
必修	环节	6400006003	学术活动	0	1	1,2	必修 不少于 10 次
		6400006005	博士综合考试	0	0	1,2	必修

必修环节	6900006001	汉语水平测评	60	0	1,2	必修
	XX00025XXX	素质教育公选课	0	1	1,2	必修

说明: 除规定的汉语课程以外, 其他课程均采用英语授课。

六、必修环节

来华留学博士研究生必修环节包含五大部分,要求留学研究生分别完成以下内容:

- 1)素质教育公选课:以介绍学术前沿知识、中外文化和艺术等为主,加强来华留学研究生综合素质教育,研究生可选修一门,考核通过后获1个学分。
- 2) 学术活动:为进一步活跃学术气氛并拓宽来华留学研究生的知识面,博士研究生应广泛参加 学术活动,在校期间须参加 10 次以上校内外学术报告会,填写学术活动登记表,有举办学术活动单 位的公章为依据,报所在学院研究生科备案,全部完成后获得 1 学分。
- 3)博士生综合考试是博士生修完课程后进行的、主要考查博士生有关基础理论和专业知识的综合考试,同时适当检查博士生对所研究方向及有关领域前沿动态的掌握程度。
- (1)博士生一般应于入学一年后参加综合考试。综合考试未通过者,允许在下一年参加一次补 考,补考仍未通过者,不得参加论文答辩,作退学处理。
- (2)博士生综合考试由学位评定分委员会指定三名专家组成的考试委员会负责实施。考试委员会主席必须由教授以上职称的专家担任,考试委员会其他成员必须由副教授以上职称的专家担任。
- (3)综合考试采用笔试和口试相结合的方式,以百分制评定成绩。其中笔试成绩所占比例不得低于50%。
- (4)各学科根据实际情况每年集中举行两次综合考试,时间定在每年的四月和十月。综合考试的试题、试卷、口试记录及评语等由所在学院研究生秘书收齐后,与成绩一并报研究生院教学管理科备案保存。
- 4)论文开题报告及文献阅读综述:指博士研究生在学位论文开题之前,必须阅读本学科前沿的文献 30 篇以上,并写出 5000 字左右的文献综述报告,完成相应的开题报告。
- 5)汉语水平测评:教育部要求留学研究生在毕业时中文能力应至少达到《国际汉语能力标准》三级水平。留学硕士/博士研究生在校期间须接受汉语三级水平测评,达到要求者方可申请毕业论文答辩。由国际教育学院进行水平认定。

七、学位论文

学位论文的答辩申请、评阅、答辩与学位授予,参照《电子科技大学研究生学位授予实施细则》 的规定执行。

控制科学与工程 来华留学博士培养方案

控制科学与工程是研究控制的理论、方法、技术及其工程应用的学科。控制科学以控制论、系统论、信息论为基础,研究各应用领域内的共性问题,即为了实现控制目标,如何建立系统的模型,分析其内部与环境信息,采取何种控制与决策行为;且与各应用领域的密切结合,又形成了控制工程丰富多样的内容。本学科点在理论研究与工程实践相结合、学科交叉和军民结合等方面具有明显的特色与优势,在我国国民经济发展和国家安全方面发挥了重大作用。

我校控制科学与工程学科为四川省重点学科,师资力量雄厚,形成了复杂系统与智能优化、新能源系统控制技术、计算机视觉与模式识别、机器人技术与系统等研究方向,具有电子信息优势明显,学科交叉特色鲜明,工程研究能力突出等特点。本学科的发展受益于社会和国家的发展,同时也在国家的决策咨询、国防建设、行业推动、社会服务、人才培养等方面做出了突出的贡献。

一、培养目标

热爱祖国,遵纪守法,具有良好的道德品质;在本学科领域掌握坚实宽广的基础理论和系统深入的专门知识;毕业时具有一定的汉语交流能力;具有独立地、创造性地从事科学研究的能力,并具有严谨求实的科学作风;能够在科学研究或专门技术上做出创造性的成果。

二、研究方向

1.复杂系统与智能信息处理

2.新能源系统及控制技术

3.模式识别与智能系统

4.测控通信与导航控制

5.检测技术与自动化装置

三、培养方式与学习年限

攻读博士学位者,学习年限为三年。若因客观原因不能按时完成学业者,可申请延长学习年限,但最长学习年限不超过六年。

四、学分与课程学习基本要求

留学博士研究生培养方式:

- 1.脱产培养。整个培养过程均在我校完成;
- 2.在职培养。课程学习在我校完成,论文工作可在留学生本国完成,但在我校从事论文研究的时间累计不得少于一年。两种培养方式的论文答辩均须在我校完成。

留学博士研究生培养实行导师负责制。导师负责指导研究生制定个人培养计划、选课、开展学 位论文工作。

总学分要求不低于 14 学分,课程总学分不低于 12 学分,其中学位课不低于 8 学分;必修环节不低于 2 学分。课程学习期间,应通过本专业规定的学位课程考试,以及其他选修课程的考试或考查。学位课中,公共基础课为必修课。允许在导师指导下跨学科选修 1~2 门学位课作为本学科的学

位课。有汉语基础者,可申请选修面向国内全日制研究生用中文讲授的专业课程,通过者获得相应 学分。

留学研究生必修中国概况和综合汉语等课程,毕业时须通过《国际汉语能力标准》三级水平考试或通过同等难度的汉语水平考试。

未完成课程学习的学分要求者,不能参加论文答辩。

五、课程设置

课程	类别	课程编号	课程名称	学时	学分	开课 学期	备注
学 位 课	公共	6900005001	综合汉语	60	2	1	必修
	基础课	6900005002	中国概况	40	2	2	必修
	专业 基础课	1107016004	最优化理论与应用	50	2.5	1	第1组,
		1107016007	数值代数	50	2.5	2	必须选 1-2门
		0108106014	数字信号处理	40	2	1	
		0608116010	计算机视觉	40	2	1	专业核
		0608116011	线性系统理论	50	2.5	1	心课
非学位课	专业 选修课	0608117003	复杂系统性能评价和优化	20	1	2	
		0808126020	嵌入式操作系统及应用	40	2	2	
		1008256008	系统工程理论与方法	40	2	1	
	其他	6900005003	汉语阅读与写作	60	2	2	
	选修课	XX0004XXXX	前沿与交叉课程	/	/	1/2	
必修环节		6400006003	学术活动	0	1	1,2	必修 不少于 10 次
		6400006004	论文开题报告及文献阅读综述I	0	0	1,2	必修
		6400006005	博士综合考试	0	0	1,2	必修
		6400007006	中期考评	0	0	1,2	必修
		6900006001	汉语水平测评	60	0	1,2	必修
		XX00025XXX	素质教育公选课	0	1	1,2	必修

说明:除规定的汉语课程以外,其他课程均采用英语授课。

六、必修环节

来华留学博士研究生必修环节包含六大部分,要求留学研究生分别完成以下内容:

- 1) 素质教育公选课:以介绍学术前沿知识、中外文化、艺术和体育等为主,加强来华留学研究生综合素质教育,须至少获得1个学分。
- 2) 学术活动:为进一步活跃学术气氛并拓宽来华留学研究生的知识面,博士研究生应广泛参加学术活动,在校期间须参加 10 次以上校内外学术报告会,填写学术活动登记表,加盖举办学术活动单位的公章,报所在学院研究生科备案,全部完成后获得 1 学分。
 - 3) 博士生综合考试是博士生修完课程后进行的、主要考查博士生有关基础理论和专业知识的综

合考试,同时适当检查博士生对所研究方向及有关领域前沿动态的掌握程度。

- (1) 博士生一般应于入学一年后参加综合考试。综合考试未通过者,允许在下一年参加一次补考,补考仍未通过者,不得参加论文答辩,作退学处理。
- (2)博士生综合考试由学位评定分委员会指定三名专家组成的考试委员会负责实施。考试委员会主席必须由教授以上职称的专家担任,考试委员会其他成员必须由副教授以上职称的专家担任。
- (3)综合考试采用笔试和口试相结合的方式,以百分制评定成绩。其中笔试成绩所占比例不得低于 50%。
- (4)各学科根据实际情况每年集中举行两次综合考试,时间定在每年的四月和十月。综合考试的试题、试卷、口试记录及评语等由所在学院研究生秘书收齐后,与成绩一并报研究生院教学管理科备案保存。
- 4)论文开题报告及文献阅读综述:指博士研究生在学位论文开题之前,必须阅读本学科前沿的文献 30 篇以上,并写出 5000 字左右的文献综述报告,完成相应的开题报告。
- 5)汉语水平测评:教育部要求留学研究生在毕业时中文能力应至少达到《国际汉语能力标准》三级水平。留学硕士/博士研究生在校期间须接受汉语三级水平测评,达到要求者方可申请毕业论文答辩。由国际教育学院进行水平认定。
- 6) 论文工作中期报告:开题一年后,需以书面形式报告论文工作进展及完成情况,经专家评审通过,方可继续论文工作。

七、学位论文

计算机科学与技术 来华留学博士培养方案

电子科技大学"计算机科学与技术"于 1999 年建成一级学科博士后流动站,本一级学科已形成强有力的基础研究和应用研究能力,具有较强的学科综合优势。学科研究水平和研究能力大幅度提升,整体接近国内一流水平,部分研究方向达到国内先进水平。在学科方向、学术团队、学科平台、科学研究、人才培养、学术交流等方面取得了突出的成绩。

一、培养目标

本学科博士学位获得者具有坚实的数学基础知识、系统的学科领域知识和精深的研究方向知识; 学术思想活跃,创新意识强,了解学科现状、发展方向和前沿;能撰写高水平学术论文,能在国际 学术会议上交流研究内容;能独立从事计算机领域内的基础理论和学科前沿课题的研究,能做出创 新性的被国际认同的研究成果,可承担大型软件或重大计算机应用项目的设计和开发,具备成为学 术带头人和项目负责人的素质,能胜任高等院校的教学工作。

博士学位获得者还应对中国的历史与文化有初步的了解,能阅读简单的中文科技文献,并具有简单的汉语对话能力。留学研究生必修中国概况和综合汉语等课程,毕业时须通过《国际汉语能力标准》三级水平考试或通过同等难度的汉语水平考试。

二、研究方向

1.信息安全 2.数字媒体技术

3.嵌入式系统 4.计算机网络

5.人工智能 6.云计算

三、培养方式与学习年限

攻读博士学位者,学习年限为三年。若因客观原因不能按时完成学业者,可申请延长学习年限, 但最长学习年限不超过六年。

留学博士研究生培养方式:

1.脱产培养。整个培养过程均在我校完成;

2.在职培养。课程学习在我校完成,论文工作可在留学生本国完成,但在我校从事论文研究的时间累计不得少于一年。两种培养方式的论文答辩均须在我校完成。

留学博士研究生培养实行导师负责制。导师负责指导研究生制定个人培养计划、选课、开展学 位论文工作。

四、学分与课程学习基本要求

总学分要求不低于 14 学分,课程总学分不低于 12 学分,其中学位课不低于 8 学分;必修环节不低于 2 学分。课程学习期间,应通过本专业规定的学位课程考试,以及其他选修课程的考试或考查。学位课中,公共基础课为必修课。允许在导师指导下跨学科选修 1~2 门学位课作为本学科的学

位课。有汉语基础者,可申请选修面向国内全日制研究生用中文讲授的专业课程,通过后获得相应 学分。

未完成课程学习的学分要求者,不能参加论文答辩。

五、课程设置

课程类别		课程编号	课程名称	学时	学分	开课 学期	备注
	公共	6900005001	综合汉语	60	2	1	必修
	基础课	6900005002	中国概况	40	2	2	必修
		1107016004	最优化理论与应用	50	2.5	1	必须选 1-
		1107016007	数值代数	50	2.5	2	2门
w		0808126007	大数据分析与挖掘	40	2	2	全英文, 中外共选
学		0808126019	移动计算技术	40	2	2	
位 课	专业	0808126020	嵌入式操作系统及应用	40	2	2	
床	基础课	0808126021	密码算法设计	40	2	2	
		0808126022	网络与信息安全	60	3	1	
		0808126023	软件开发技术	40	2	1	
		0808126024	多媒体技术与应用	40	2	1	
		0808126094	计算机科学中的数学基础	40	2	1	全英文, 中外共选
	专业 选修课	0808127005	云计算	20	1	1	全英文, 中外共选
		0808127020	密码学基础	40	2	2	
非		0808127030	操作系统结构与应用	40	2	2	
学		0808127043	高级网络计算	20	1	1	^ # <i>-</i>
位 课		0808127055	前沿算法技巧	20	1	2	全英文, 中外共选
床		0808397009	数据恢复与数字取证	20	1	1	中外共选
	其他	6900005003	汉语阅读与写作	60	2	2	
	选修课	XX0004XXXX	前沿与交叉课程	/	/	1/2	
		6400006003	学术活动	0	1	1,2	必修 不 少于10次
એ છે.	17 11:	6400006004	论文开题报告及文献阅读综述I	0	0	1,2	必修
业修	环节	6400006005	博士综合考试	0	0	1,2	必修
		6900006001	汉语水平测评	60	0	1,2	必修
		XX00025XXX	素质教育公选课	0	1	1,2	必修

说明:除规定的汉语课程以外,其他课程均采用英语授课。

六、必修环节

来华留学博士研究生必修环节包含五大部分,要求留学研究生分别完成以下内容:

1)素质教育公选课:以介绍学术前沿知识、中外文化、艺术和体育等为主,加强来华留学研究生综合素质教育,研究生可选修一门,考核通过后获1个学分。

- 2) 学术活动:为进一步活跃学术气氛并拓宽来华留学研究生的知识面,博士研究生应广泛参加学术活动,在校期间须参加 10 次以上校内外学术报告会,填写学术活动登记表,加盖举办学术活动单位的公章,报所在学院研究生科备案,全部完成后获得 1 学分。
- 3)博士生综合考试是博士生修完课程后进行的、主要考查博士生有关基础理论和专业知识的综合考试,同时适当检查博士生对所研究方向及有关领域前沿动态的掌握程度。
- (1) 博士生一般应于入学一年后参加综合考试。综合考试未通过者,允许在下一年参加一次补 考,补考仍未通过者,不得参加论文答辩,作退学处理。
- (2) 博士生综合考试由学位评定分委员会指定三名专家组成的考试委员会负责实施。考试委员会主席必须由教授以上职称的专家担任,考试委员会其他成员必须由副教授以上职称的专家担任。
- (3)综合考试采用笔试和口试相结合的方式,以百分制评定成绩。其中笔试成绩所占比例不得低于50%。
- (4)各学科根据实际情况每年集中举行两次综合考试,时间定在每年的四月和十月。综合考试的试题、试卷、口试记录及评语等由所在学院研究生秘书收齐后,与成绩一并报研究生院教学管理科备案保存。
- 4) 论文开题报告及文献阅读综述:指博士研究生在学位论文开题之前,必须阅读本学科前沿的 文献 30 篇以上,并写出 5000 字左右的文献综述报告,完成相应的开题报告。
- 5)汉语水平测评:教育部要求留学研究生在毕业时中文能力应至少达到《国际汉语能力标准》 三级水平。留学硕士/博士研究生在校期间须接受汉语三级水平测评,达到要求者方可申请毕业论文 答辩。由国际教育学院进行水平认定。

七、学位论文

学位论文工作按照《电子科技大学研究生学位授予实施细则》的规定执行。

生物医学工程 来华留学博士培养方案

生物医学工程是现代科学技术与生物医学问题相结合的一个交叉领域,与电子信息科学与技术、计算机科学与技术、生物医学、认知神经科学和分子生物学等学科的研究领域密切相关。我校本学科创办于 1986 年; 1993 年获得硕士授位权; 2000 年获得一级学科博士授位权; 2017 年在教育部全国高校第四轮学科评估中获评 B+类学科。现有正副教授 40 余名。汇集了包括中国科学院院士、美国医学与生物工程院 Fellow、英国工程技术学会 Fellow 等高层次人才 17 位(不重复计算)、全时非华裔高层次人才 6 位,构建了高水平的国际化师资队伍。设有国家国际科技合作基地-神经信息国际联合研究中心,以及神经信息教育部重点实验室、高场磁共振脑成像四川省重点实验室等三个部(省)重点实验室,拥有 3T MR 脑成像中心,以及 EGI 及 Neuroscan 脑电工作站等具有国际水平的实验仪器设备。在脑功能成像技术及应用、视觉神经电生理、生物医学信号处理、医学成像与处理、生物信息学等方面成果显著。

一、培养目标

具备相应的电子信息科学与生物医学的坚实理论基础和系统深入的专门知识。本学科博士学位获得者应掌握有关领域的国内外前沿现状和发展趋势,具有独立从事学科领域中的基础理论及前沿课题的研究能力,并做出创新的研究成果。至少熟练掌握一门外语,具有"读、写、听、说"能力。

留学研究生必修中国概况和综合汉语等课程,毕业时须通过《国际汉语能力标准》三级水平考试或通过同等难度的汉语水平考试。

二、研究方向

- 1.脑功能与神经信息工程(含脑机接口、类脑技术等)
- 2.医疗设备、医学图像与信号处理
- 3.生物信息学
- 4.神经生物学
- 5.细胞生物学
- 6.生物化学与分子生物学

三、培养方式与学习年限

来华留学博士研究生学制为三年。若因客观原因不能按时完成学业者,可申请适当延长学习年限,但最长学习年限不超过六年。

四、学分与课程学习基本要求

来华留学博士研究生的培养,原则上应采取脱产培养的方式,即整个培养过程均在我校完成。 如确因需要,经导师同意,所在学院和研究生院批准,可进行在职培养,留学生可以回国撰写论文, 但在我校从事论文研究的时间累计不得低于一年,且所有课程学习和论文答辩必须在我校完成。 来华留学博士研究生培养实行导师负责制。导师负责指导研究生制定个人培养计划、选课、开 展学位论文工作等。

来华留学博士研究生的总学分要求不低于 14 学分,课程总学分不低于 12 学分,其中学位课不低于 8 学分;必修环节不低于 2 学分。公共基础课为必修课。课程学习期间,应通过本专业规定的学位课程考试,以及其他选修课程的考试或考查。允许在导师指导下跨学科选修 1~2 门学位课作为本学科的学位课。有汉语基础者,可申请选修面向国内全日制研究生用中文讲授的专业课程,通过者获得相应学分。

未完成课程学习的学分要求者,不能参加论文答辩。

五、课程设置

课程类别		课程编号	课程名称	学时	学分	开课 学期	备注
	公共	6900005001	综合汉语	60	2	1	必修
	基础课	6900005002	中国概况	40	2	2	必修
	井 70107田	1107016004	最优化理论与应用	50	2.5	1	必须选
学	基础课	1107016007	数值代数	50	2.5	2	1-2门
位 课		1404026004	认知神经科学	40	2	1	
从	专业	1407106009	高级分子生物学	40	2	1	
	基础课	1407106010	生物信息学	40	2	1	
		1408316004	脑科学基础	40	2	2	
	专业 选修课	1404026006	心理物理实验	40	2	2	
非学		1408316005	脑成像进展	40	2	2	
子 位		1408316006	生物医学统计	40	2	2	
课	其他	6900005003	汉语阅读与写作	60	2	2	
K	选修课	XX0004XXXX	前沿与交叉课程	/	/	1/2	
		6400006003	学术活动	0	1	1,2	必修 不少于 10次
必修	环节	6400006004	论文开题报告及文献阅读综述I	0	0	1,2	必修
		6400006005	博士综合考试	0	0	1,2	必修
		XX00025XXX	素质教育公选课	0	1	1,2	必修
		6900006001	汉语水平测评	60	0	1,2	必修

说明:除规定的汉语课程以外,其他课程均采用英语授课。

六、必修环节

- 1)素质教育公选课:以介绍学术前沿知识、中外文化、艺术和体育等为主,加强来华留学研究生综合素质教育,须至少获得1个学分。
- 2) 学术活动:为进一步活跃学术气氛并拓宽来华留学研究生的知识面,博士研究生应广泛参加学术活动,在校期间须参加 10 次以上校内外学术报告会,填写学术活动登记表,加盖举办学术活动

单位的公章, 报所在学

院研究生科备案,全部完成后获得1学分。

- 3)博士生综合考试是博士生修完课程后进行的、主要考查博士生有关基础理论和专业知识的综合考试,同时适当检查博士生对所研究方向及有关领域前沿动态的掌握程度。
- (1) 博士生一般应于入学一年后参加综合考试。综合考试未通过者,允许在下一年参加一次补 考,补考仍未通过者,不得参加论文答辩,作退学处理。
- (2) 博士生综合考试由学位评定分委员会指定三名专家组成的考试委员会负责实施。考试委员会主席必须由教授以上职称的专家担任,考试委员会其他成员必须由副教授以上职称的专家担任。
- (3)综合考试采用笔试和口试相结合的方式,以百分制评定成绩。其中笔试成绩所占比例不得低于50%。
- (4)各学科根据实际情况每年集中举行两次综合考试,时间定在每年的四月和十月。综合考试的试题、试卷、口试记录及评语等由所在学院研究生秘书收齐后,与成绩一并报研究生院教学管理科备案保存。
- 4)论文开题报告及文献阅读综述:指博士研究生在学位论文开题之前,必须阅读本学科前沿的文献 30 篇以上,并写出 5000 字左右的文献综述报告,完成相应的开题报告。
- 5)汉语水平测评:教育部要求留学研究生在毕业时中文能力应至少达到《国际汉语能力标准》 三级水平。留学博士研究生在校期间须接受汉语三级水平测评,达到要求者方可申请毕业论文答辩。 由国际教育学院进行水平认定。

七、学位论文

学位论文工作按照《电子科技大学研究生学位授予实施细则》中的要求执行。

来华留学博士研究生发表学术论文的要求参照《电子科技大学来华留学博士研究生发表论文的要求》执行。

软件工程 来华留学博士培养方案

软件工程学科是信息技术领域中发展最快的学科领域之一,软件产业也成为各国经济发展的支柱产业。软件工程领域总体发展形成了宽范围、多维度、多层次、多交叉的体系结构,知识领域包括软件需求、软件设计、软件构建、软件测试、软件维护、软件配置管理、软件项目管理、软件质量、软件安全、软件道德与法律等;也涉及到系统工程、领域工程、数字化技术、嵌入式系统、网络与信息安全,系统管理与支持、市场营销等多学科交叉领域。

一、培养目标

本学科根据软件技术的发展和软件行业的需求,面向软件工程领域高层次人才招生。本学科博士学位获得者应在软件工程方面具有坚实宽广的理论基础;具有独立从事科研的能力和良好的综合素质;能独立地、创造性地从事软件领域内的科研工作并取得被国际认同的科研成果;学术视野开阔,创新意识强,了解学科现状、发展和前沿;能用英语撰写学术论文并在国际学术会议上交流;可承担大型软件项目的设计和开发;能胜任高等院校的教学工作。

二、研究方向

1.网络安全 2.实时计算

3.智能计算 4.软件理论

三、培养方式与学习年限

攻读博士学位者,学习年限为三年。若因客观原因不能按时完成学业者,可申请延长学习年限,但最长学习年限不超过六年。

四、学分与课程学习基本要求

留学博士研究生培养方式:

1.脱产培养。整个培养过程均在我校完成:

2.在职培养。课程学习在我校完成,论文工作可在留学生本国完成,但在我校从事论文研究的时间累计不得少于一年。两种培养方式的论文答辩均须在我校完成。

留学博士研究生培养实行导师负责制。导师负责指导研究生制定个人培养计划、选课、开展学 位论文工作。

总学分要求不低于 14 学分,课程总学分不低于 12 学分,其中学位课不低于 8 学分;必修环节不低于 2 学分。课程学习期间,应通过本专业规定的学位课程考试,以及其他选修课程的考试或考查。公共基础课为必修课。允许在导师指导下跨学科选修 1~2 门学位课作为本学科的学位课。留学研究生必修中国概况和综合汉语等课程,毕业时须通过《国际汉语能力标准》五级水平考试或通过同等难度的汉语水平考试。

未完成课程学习的学分要求者,不能参加论文答辩。

五、课程设置

课程类别		课程编号	课程名称	学时	学分	开课 学期	备注
	公共	6900005001	综合汉语	60	2	1	必修
	基础课	6900005002	中国概况	40	2	2	必修
学		1107016004	最优化理论与应用	50	2.5	1	必须选
位	+	1107016007	数值代数	50	2.5	2	1-2门
课	基础课	0908356004	软件架构模型与设计	40	2	2	专业核 心课
		0908356009	网络计算导论	40	2	1	
-11-	专业 选修课	0908356010	网络安全: 理论与实践	40	2	1	
非学		0908357012	新型数据库理论与实践	40	2	1	
子 位		0908357014	数据科学与应用	40	2	2	
课	其他 选修课	6900005003	汉语阅读与写作	60	2	2	
		6400006003	学术活动	0	1	1,2	必修 不少于 10 次
必何	修环节	6400006004	论文开题报告及文献阅读综述 I	0	0	1,2	必修
		6400006005	博士综合考试	0	0	1,2	必修
		6900006001	汉语水平测评	60	0	1,2	必修
		XX00025XXX	素质教育公选课	0	1	1,2	必修

说明: 除规定的汉语课程以外, 其他课程均采用英语授课。

六、必修环节

- 1)素质教育公选课:以介绍学术前沿知识、中外文化、艺术和体育等为主,加强来华留学研究生综合素质教育,须至少获得1个学分。
- 2) 学术活动:为进一步活跃学术气氛并拓宽来华留学研究生的知识面,博士研究生应广泛参加学术活动,在校期间须参加 10 次以上校内外学术报告会,填写学术活动登记表,加盖举办学术活动单位的公章,报所在学院研究生科备案,全部完成后获得 1 学分。
- 3)汉语水平测评:教育部要求留学研究生在毕业时中文能力应至少达到《国际汉语能力标准》 三级水平。留学硕士/博士研究生在校期间须接受汉语三级水平测评,达到要求者方可申请毕业论文 答辩。由国际教育学院进行水平认定。
- 4)博士生综合考试是博士生修完课程后进行的、主要考查博士生有关基础理论和专业知识的综合考试,同时适当检查博士生对所研究方向及有关领域前沿动态的掌握程度。
- (1)博士生一般应于入学一年后参加综合考试。综合考试未通过者,允许在下一年参加一次补 考,补考仍未通过者,不得参加论文答辩,作退学处理。
 - (2) 博士生综合考试由学位评定分委员会指定三名专家组成的考试委员会负责实施。考试委员

会主席必须由教授以上职称的专家担任,考试委员会其他成员必须由副教授以上职称的专家担任。

- (3)综合考试采用笔试和口试相结合的方式,以百分制评定成绩。其中笔试成绩所占比例不得低于50%。
- (4)各学科根据实际情况每年集中举行两次综合考试,时间定在每年的四月和十月。综合考试的试题、试卷、口试记录及评语等由所在学院研究生秘书收齐后,与成绩一并报研究生院教学管理科备案保存。
- 5) 论文开题报告及文献阅读综述:指博士研究生在学位论文开题之前,必须阅读本学科前沿的文献 30 篇以上,并写出 5000 字左右的文献综述报告,完成相应的开题报告。

七、学位论文

学位论文工作按照《电子科技大学研究生学位授予实施细则》的规定执行。

管理科学与工程 来华留学博士培养方案

电子科技大学管理科学与工程博士研究生培养项目强化管理知识和技能与现代信息技术相结合的培养模式,致力于将学校在信息科学技术领域的学科优势、科研优势和资源优势转化为培养优势,并最终落实为学员的竞争优势。培养具有国际化视野、掌握现代管理思想和方法的复合型、创新型管理人才。历经十余年磨砺和持续努力,管理科学与工程博士研究生项目已形成了清晰的培养目标、明确的培养理念和独特的培养模式。

一、培养目标

本学科博士学位获得者应具有扎实的数理基础、管理科学与工程和经济与金融学科方面宽广坚实的理论基础以及系统深入的专业知识,并掌握系统理论与系统工程的基础知识,熟悉计算机系统和网络技术的应用现状。对中国文化应有较深入的了解,能使用汉语言进行交流。具有独立从事本学科领域中的基础理论及前沿课题的研究能力,并有创新的研究成果,能胜任高等院校、企业和政府部门的教学和科研、高级管理和产业规划等工作。

二、研究方向

1.供应链 2.信息管理与数据挖掘

3.电子商务 4.金融工程

三、培养方式与学习年限

攻读博士学位者,学习年限为三年。若因客观原因不能按时完成学业者,可申请延长学习年限,但最长学习年限不超过六年。

四、学分与课程学习基本要求

留学博士研究生培养方式:

- 1.脱产培养。整个培养过程均在我校完成:
- 2.在职培养。课程学习在我校完成,论文工作可在留学生本国完成,但在我校从事论文研究的时间累计不得少于一年。两种培养方式的论文答辩均须在我校完成。

留学博士研究生培养实行导师负责制。导师负责指导研究生制定个人培养计划、选课、开展学 位论文工作。

总学分要求不低于 16 学分,课程总学分不低于 14 学分,其中学位课不低于 10 学分;必修环节不低于 2 学分。课程学习期间,应通过本专业规定的学位课程考试,以及其他选修课程的考试或考查。学位课中,公共基础课为必修课,基础课至少选修一门。允许在导师指导下跨学科选修 1~2 门学位课作为本学科的学位课。学位课可代替非学位课,但非学位课不能替代学位课。有汉语基础者,可申请选修面向国内全日制研究生用中文讲授的专业课程,通过者获得相应学分。

未完成课程学习的学分要求者,不能参加论文答辩。

五、课程设置

课程类别		课程编号	课程名称	学时	学分	开课 学期	备注
	公共	6900005001	综合汉语	60	2	1	必修
	基础课	6900005002	中国概况	40	2	2	必修
学		1107016004	最优化理论与应用	50	2.5	1	必须选
位 课	专业	1107016007	数值代数	50	2.5	2	1-1门
体	基础课	1502026011	商务统计	40	2.5	1	
		1512017012	服务管理	24	1.5	1	
	专业 选修课	1502517005	金融学	40	2.5	2	
п.		1512017010	供应链管理	40	2.5	1	
非业		1512017011	数据挖掘与信息管理	40	2.5	1	
学位		1512017016	管理科学研究方法	24	1.5	2	
课		1512028006	创新创业管理研究	40	2.5	2	
床	其他 选修课	6900005003	汉语阅读与写作	60	2	2	
		6400006003	学术活动	0	1	1,2	必修 不少于 10 次
必何	多 环节	6400006004	论文开题报告及文献阅读综述 I	0	0	1,2	必修
		6400006005	博士综合考试	0	0	1,2	必修
		6900006001	汉语水平测评	60	0	1,2	必修
		XX00025XXX	素质教育公选课	0	1	1,2	必修

说明: 除规定的汉语课程以外, 其他课程均采用英语授课。

六、必修环节

- 1)素质教育公选课:以介绍学术前沿知识、中外文化、艺术和体育等为主,加强来华留学研究生综合素质教育,须至少获得1个学分。
- 2) 学术活动:为进一步活跃学术气氛并拓宽来华留学研究生的知识面,博士研究生应广泛参加学术活动,在校期间须参加 10 次以上校内外学术报告会,填写学术活动登记表,加盖举办学术活动单位的公章,报所在学院研究生科备案,全部完成后获得 1 学分。
- 3)博士生综合考试是博士生修完课程后进行的、主要考查博士生有关基础理论和专业知识的综合考试,同时适当检查博士生对所研究方向及有关领域前沿动态的掌握程度。
- (1) 博士生一般应于入学一年后参加综合考试。综合考试未通过者,允许在下一年参加一次补考,补考仍未通过者,不得参加论文答辩,作退学处理。
- (2)博士生综合考试由学位评定分委员会指定三名专家组成的考试委员会负责实施。考试委员会主席必须由教授以上职称的专家担任,考试委员会其他成员必须由副教授以上职称的专家担任。
 - (3)综合考试采用笔试和口试相结合的方式,以百分制评定成绩。其中笔试成绩所占比例不得

低于 50%。

- (4)各学科根据实际情况每年集中举行两次综合考试,时间定在每年的四月和十月。综合考试的试题、试卷、口试记录及评语等由所在学院研究生秘书收齐后,与成绩一并报研究生院教学管理科备案保存。
- 4) 论文开题报告及文献阅读综述:指博士研究生在学位论文开题之前,必须阅读本学科前沿的文献 30 篇以上,并写出 5000 字左右的文献综述报告,完成相应的开题报告。
- 5) 汉语水平测评:教育部要求留学研究生在毕业时中文能力应至少达到《国际汉语能力标准》 三级水平。留学硕士/博士研究生在校期间须接受汉语三级水平测评,达到要求者方可申请毕业论文 答辩。由国际教育学院进行水平认定。
- 6) 汉语水平测评:教育部要求留学研究生在毕业时中文能力应至少达到《国际汉语能力标准》 三级水平。留学硕士/博士研究生在校期间须接受汉语三级水平测评,达到要求者方可申请毕业论文 答辩。由国际教育学院进行水平认定。

七、学位论文

学位论文工作按照《电子科技大学研究生学位授予实施细则》的规定执行。

发表学术论文的要求参照《电子科技大学来华留学博士研究生发表论文的要求》执行。

工商管理 来华留学博士培养方案

电子科技大学工商管理学科博士研究生(留学生)项目致力于将学校在电子信息科学技术和工商管理领域的学科优势、科研优势以及中国在改革开放之后形成的产业资源优势转化为人才培养优势,通过课程学习和专业学术训练,把学生培养成了解中国商业环境、掌握现代管理思想和方法的学术精英或在政府企业从事高级管理工作的管理精英。

一、培养目标

通过采用系统的理论学习和专业学术训练相结合的培养方式,培养具有国际视野、熟悉理论前沿、掌握科学研究方法、了解中国国情的学术精英和政府企业的高层管理者。要求学生不仅具备战略管理、组织行为等基础的管理理论和专业知识,还要熟悉产业及金融等部门创新的基本理论和典型模式,掌握国家治理与公共政策方面的基础理论和分析工具,能够基于本国发展阶段、产业基础及发展模式的基本判断,独立从事本领域中的基础理论及前沿课题研究,形成创新性研究成果,或胜任在复杂国际国内环境中进行战略决策、产业创新管理、公共政策制定等方面的高层次管理工作。

二、研究方向

- 1.组织行为与人力资源管理
- 2.战略管理
- 3.创新创业管理
- 4.产业创新
- 5.商业模式创新
- 6.公共政策与政府治理

三、培养方式与学习年限

攻读博士学位者,学习年限为三年。若因客观原因不能按时完成学业者,可申请延长学习年限,但最长学习年限不超过六年。

四、学分与课程学习基本要求

总学分不低于 16 学分,其中课程学分不低于 14 学分,学位课不低于 10 学分,必修环节不低于 2 学分。课程学习期间,应通过本学科规定的学位课程考试,以及非学位选修课程的考试或考查。 学位课中,公共基础课与专业基础课为必修课。允许在导师指导下跨学科选修 1~2 门学位课作为本 学科的学位课。学位课可代替非学位课,但非学位课不能替代学位课。有汉语基础者,可申请选修 面向国内全日制研究生用中文讲授的专业课程,通过者获得相应学分。

留学博士研究生培养实行导师(或导师组)负责制。导师负责指导研究生制定个人培养计划、 选课、开展学位论文工作。未完成课程学习的学分要求者,不能参加论文答辩。

五、课程设置

课程类别		课程编号	课程名称	学时	学分	开课 学期	备注
	公共	6900005001	综合汉语	60	2	1	必修
	基础课	6900005002	中国概况	40	2	2	必修
		1502026011	商务统计	40	2.5	1	方向
		1512026009	管理研究方法	32	2	2	1-3
学		1512026012	中国经济改革	32	2	1/2	
子 位		1512026013	创新与中国制造	32	2	1/2	方向
课	专业	1512026014	数字经济	32	2	1/2	4-6
	基础课	1512026015	研究方法导论	32	2	1/2	
		1512026016	管理理论	32	2	1	方向 1-3
		1612046021	中国国家治理体系概论	32	2	1/2	方向 4-6
1L	专业 选修课	1512017011	数据挖掘与信息管理	40	2.5	1	
非学		1512017012	服务管理	24	1.5	1	
子 位		1512028006	创新创业管理研究	40	2.5	2	
课	其他 选修课	6900005003	汉语阅读与写作	60	2	2	
		6400006003	学术活动	0	1	1,2	必修 不少于 10 次
必何	多环节	6400006004	论文开题报告及文献阅读综述 I	0	0	1,2	必修
		6400006005	博士综合考试	0	0	1,2	必修
		6900006001	汉语水平测评	60	0	1,2	必修
		XX00025XXX	素质教育公选课	0	1	1,2	必修

说明: 除规定的汉语课程以外, 其他课程均采用英语授课。

六、必修环节

- 1) 选修素质教育公选课:以介绍学术前沿知识、中外文化、艺术和体育等为主,加强来华留学研究生综合素质教育,须至少获得1个学分。
- 2)参加学术活动:为进一步活跃学术气氛并拓宽来华留学研究生的知识面,博士研究生应广泛参加学术活动,在校期间须参加 10 次以上校内外学术报告会,填写学术活动登记表,加盖举办学术活动单位的公章,报所在学院研究生科备案,全部完成后获得 1 学分。
- 3)通过博士生综合考试:在修完课程后进行,主要考查博士生有关基础理论和专业知识的综合考试,同时适当检查博士生对所在研究方向及有关领域前沿动态的掌握程度。
- (1)博士生一般应于入学一年后参加综合考试。综合考试未通过者,允许在下一年参加一次补 考,补考仍未通过者,不得参加论文答辩,作退学处理。
 - (2) 博士生综合考试由学位评定分委员会指定三名专家组成的考试委员会负责实施。考试委员

会主席必须由教授职称的专家担任,考试委员会其他成员必须由副教授以上职称的专家担任。

- (3)综合考试采用笔试和口试相结合的方式,以百分制评定成绩。其中笔试成绩所占比例不得低于 50%。
- (4)各学科根据实际情况每年集中举行两次综合考试,时间定在每年的四月和十月。综合考试的试题、试卷、口试记录及评语等由所在学院研究生秘书收齐后,与成绩一并报研究生院教学管理科备案保存。
- 4)论文开题报告及文献阅读综述:指博士研究生在学位论文开题之前,必须阅读本学科前沿的文献 30 篇以上,并写出 5000 字左右的文献综述报告,完成相应的开题报告。
- 5)汉语水平测评:教育部要求留学研究生在毕业时中文能力应至少达到《国际汉语能力标准》 三级水平。留学硕士/博士研究生在校期间须接受汉语三级水平测评,达到要求者方可申请毕业论文 答辩。由国际教育学院进行水平认定。

七、学位论文

(一) 基本要求

方向 1-3 学生的博士学位论文的选题应属学科前沿或对科技和社会发展具有重要的理论意义或 实用价值。学位论文应表明作者在本学科掌握了坚实宽广的基础理论和系统深入的专门知识,具有 独立从事科学研究工作或担负专门技术工作的能力,在科学或专门技术上做出创造性的成果。

方向 4-6 学生的博士学位论文的选题原则上应与留学生所在国家的政府管理、产业政策或企业管理的实际问题有关,对所在国家的科技和社会发展具有重要的理论意义或实用价值。学位论文应表明作者在本学科掌握了坚实的基础理论和系统深入的专门知识,具有独立从事科学研究工作或管理工作的能力。

- (二) 学位论文工作按照《电子科技大学研究生学位授予实施细则》的规定执行。
- (三)发表学术论文的要求参照《电子科技大学来华留学博士研究生发表论文的要求》执行。