

控制科学与工程（学科代码：081100）硕士研究生培养方案（国际研究生）

(Control Science and Engineering)

一、领域简介 (Introduction)

控制科学与工程以控制论、系统论、信息论为基础，以工程系统为主要对象，以数理方法、人工智能和信息技术为主要工具，是研究各种检测、建模、控制、优化策略与系统的理论、方法、技术及其实际应用的一门综合性学科。研究内容涵盖基础理论、工程设计和系统实现，是机械、电力、化工、冶金、航空、航天、船舶等工程领域实现自动化不可缺少的理论基础和技术手段，在工业、农业、国防、交通、科技、教育、社会经济乃至生命系统等领域有着广泛应用，特别在智能制造、智能电网、智慧城市、智能运载、智能机器人、智慧诊疗等领域有着基础支撑作用。

本学科研究方法包括理论与实际相结合，定量与定性相结合，实验与仿真相结合，软件与硬件相结合，信息获取与利用相结合，系统认知与优化相结合，科学分析与工程实践相结合，解决工程控制问题与凝练控制科学问题相结合，事实性、概念性与程序性知识学习与分析、评价和创造的高层次认知能力相结合等。

控制科学与工程学科包括控制理论与控制工程、检测技术与自动化装置、系统工程、模式识别与智能系统等二级学科或学科方向。

上海大学控制科学与工程学科，是上海市高原学科、上海市双一流医工结合支撑学科，也是国家一流学科的支撑学科之一，致力于为“一带一路”地区及全世界培养面向电气、仪表、冶金、能源等行业发展需要的、具有国际视野的、复合型创新人才。

Subject Introduction

The discipline of Control Science and Engineering is based on cybernetics, system theory and information theory, and take engineering system as the main object. With mathematical method, artificial intelligence and information technology as main tools, the theory, method and technology of various control strategies and control systems are studied. It is a comprehensive subject which studies the theory, method, technology and practical application of various detection, modeling, control, optimization strategy and system.

The research covers basic theory, engineering design and system implementation. It is an indispensable theoretical basis and technical means to realize automation in mechanical, electrical, chemical, metallurgical, aviation, aerospace, ship and other engineering fields. It is widely used in industry, agriculture, national defense, transportation, science and technology, education, social economy and even life system, especially as a basic supporting role in smart manufacturing, smart grid, smart city, smart transportation, intelligent robots, intelligent diagnosis and treatment and other fields. The research methods of this subject include the combination of theory and practice, quantitative and qualitative, experiment and simulation, software and hardware, information acquisition and utilization, system cognition and optimization, scientific analysis and engineering practice, solving engineering control problems and refining scientific problems, factual, conceptual and procedural knowledge learning and analysis, evaluation and creation of high-level cognitive ability.

The discipline of Control Science and Engineering includes the second disciplines such as control theory and control engineering, detection technology and automation devices, systems engineering, pattern recognition and intelligent systems.

The discipline of Control Science and Engineering of Shanghai University is a supporting discipline of Shanghai high level discipline, Shanghai medicine and engineering combination for world-class universities and world-class disciplines, and one of the first-class disciplines in the country. It is dedicated to cultivate innovative talents for “The Belt and Road” region and the world in the field of Electrical, instrumentation, metallurgy, energy and other industries with an international perspective to the development of industry.

二、学位标准 (Degree for Require)

获本专业研究生学位基本要求：应掌握控制科学与工程学科相关的专业知识和技能，具备学术素养和学术道德；能独立开展科学研究、实践、学术交流等；学位论文符合培养方案要求的规范和质量要求；满足上海大学控制科学与工程学科专业要求的学位授予科研成果量化指标。

Degree Standard

Basic requirements for postgraduate degree in this discipline: Graduates should master the related professional knowledge and skills in the discipline of Control Science and Engineering, and should follow academic literacy and academic ethics; should be able to independently carry out scientific research, practice, academic exchanges, etc. The dissertation should meet the requirements and quality standards of the training program; and the academic achievements should fulfill the quantitative indicators set up for Control Science and Engineering major of Shanghai University.

三、培养目标 (Objectives)

1. 国际研究生应当熟悉中国历史、地理、社会、经济等中国国情和文化基本知识，了解中国政治制度和外交政策，理解中国社会主流价值观和公共道德观念，形成良好的法治观念和道德意识。

International graduate students should be familiar with China's national condition and Chinese culture including history, geography, society, economy etc; understand the mainstream values and public morality of Chinese society; establish a good concept of the rule of law and moral consciousness.

2. 国际研究生应当具备包容、认知和适应文化多样性的意识、知识、态度和技能，能够在不同民族、社会和国家之间的相互尊重、理解和团结中发挥作用。

International graduate students should have the awareness, knowledge, attitudes and skills to be inclusive, cognizant and adapt to cultural diversity, and play a positive role in mutual respect, understanding and solidarity among different peoples, societies and nations.

3. 培养具有创新思维、创业潜质和国际化视野的控制科学与工程领域复合型人才。培养学生掌握控制理论、先进控制系统与技术、检测技术、系统工程、人工智能与模式识别、系统建模与仿真和生命科学交叉应用等方面坚实的基础理论和系统的专业知识，具有从事控制科学研究、系统设计与技术开发、解决实际工程控制问题的能力，了解本学科最新研究成果和发展动向，并在学位论文中做出理论结合实际的创新成果，成为控制科学与工程学科的专门人才。

The students are trained to be professional individuals in Control Science and Engineering fields who are fully developed on every aspect of personal capabilities, personalities. Graduates will be trained to systematically master the solid basic theory and professional knowledge of control theory, advanced

control systems and technologies, detection technology, systems engineering, artificial intelligence and pattern recognition, system modeling and simulating, the interdisciplinary life science applications, etc. Students will be well educated to have the ability to research control science, system design and technical development and solve practical engineering control problems, to know the latest research developments and trends of the discipline, to make innovations of applying theory to practice in the thesis, and become specialists of Control Science and Engineering.

4. 身体健康、心理健康。

Physical and mental health.

四、学习方式及学习年限 (Duration)

本专业硕士学制为2.5年。在校学习年限最长不超过6年。

The master program is of two and a half years duration. The maximum length of study at school is no more than 6 years.

五、研究方向 (Research Areas)

1. 控制理论与控制工程 Control Theory and Control Engineering

2. 检测技术与自动化装置 Detecting Technology and Automatic Equipment

3. 系统工程 Systems Engineering

4. 模式识别与智能系统 Pattern Recognition and Intelligent Systems

六、语言要求 (Language Requirements)

雅思 (A) 成绩6.0分以上(含)或托福成绩80分以上(含)。

本专业来华留学生应当能够顺利使用英语完成本学科、专业的学习和研究任务, 并具备使用中文从事本专业相关工作的能力。毕业时应当至少达到《国际汉语能力标准》三级水平。

IELTS 6.0 or TOEFL IBT 80 or above received within the recent two years.

Students who come to China in this major should be able to successfully use English to complete the subject, study and research tasks, and have the ability to use Chinese to engage in the relevant work of this major. At least level 3 of Chinese Language Proficiency Scales for Speaking of Other Languages before graduating.

七、培养方式及导师要求 (Training Methods and Tutor Requirements)

在校培养或联合培养。

Training in school or joint training.

八、课程设置及学分要求 (Curriculum and Credit Requirement)

本学科硕士生的学分最低为43学分, 专业基础课不高于10学分, 创新创业课不低于2学分, 学术规范与写作课不低于2学分, 学术研讨课不低于2学分。详细设置请查看附表。

The minimum credits for master's degree students are 43 credits, of which the professional basic courses are not more than 10 credits, and the course of innovation and entrepreneurship and academic standards and writing course and academic seminar course are no less than 2 credits. Please see the attached table for detailed settings.

九、培养计划制定 (Development of Training Plan)

攻读硕士学位的研究生入学后，应在导师指导下按照本学科当年度培养方案的要求制订培养计划，在入学后1个月内，登录研究生管理系统，输入培养计划，同时，打印的纸质版培养计划报学院（学科）学位评定分委员会审核批准后，由学院留存备案并统一递送至研究生院培养管理处。凡列入培养计划的课程必须修读合格方可进行答辩。

After enrolling in the master's degree, students should determine a training plan under the guidance of your supervisor in accordance with the requirements of the current year's training program. Within one month after enrollment, students should log in the postgraduate management system, input the training plan, print out and submit to Academic Degree Evaluation Subcommittee of the college for review and approval. The printed version will be kept by the college for record and submitted to Training and Management Office. Courses included in the training program must be qualified before thesis defense.

十、必修环节 (Compulsory courses)

1. 课程考核

入学后第二学年的9月对该专业研究生进行课程考核，课程考核分为合格和不合格，具体如下：

(1) 培养计划课程学分已修满，且课程成绩在60分及其以上、75分以下的课程门数在 2 门以内的，课程考核合格；

(2) 培养计划课程学分已修满，且课程成绩在60分及其以上、75分以下的课程门数多于 2 门的，课程考核不合格，并给予一级警告，到中期考核前课程考核尚不能合格者，学位论文开题和中期考核须延期三个月；

(3) 培养计划课程学分未修满者，课程考核不合格，并给予二级警告，到中期考核前课程考核尚不能合格者，学位论文开题和中期考核须延期6个月；

(4) 培养计划课程考核到入学后第三学年的9月1日尚不能合格者；或培养计划课程第一次学习成绩不足60分，且重修1次后成绩仍不足60分者予以淘汰。

1. Course Assessment

In September of the second year after enrollment, the postgraduate examination will be conducted for the graduate students. The course assessment is divided into qualified and unqualified according to:

(1) The credits for the training plan have been completed, and the number of courses with a score of 60 to 75 is within 2, and the course is qualified;

(2) The credits of the training plan have been completed, and the number of courses with scores of 60 to 75 is more than 2, the course assessment is unqualified, and the first level warning is given. If the assessment is not qualified before the mid-term assessment, the dissertation opening report and the mid-term assessment shall be postponed for three months;

(3) If the credits of the training plan are not completed, the course assessment is unqualified, and the second-level warning is given. If the course assessment is not qualified before the mid-term assessment, the dissertation opening report and mid-term assessment must be extended for 6 months;

(4) The training plan is assessed to be unqualified if the training courses

are not completed until September 1st of the third year after enrollment; or the score of one course is less than 60 for the first time and is still less than 60 after retaking the course.

2. 学位论文开题报告与中期考核

学位论文开题报告和中期考核在研究生入学后的第二学年冬季学期举行。

(1) 学位论文开题报告

硕士生的开题报告，一般应在课程学习结束，取得规定学分后进行。为保证硕士生有1年的时间从事学位论文研究工作，硕士生的开题报告至论文答辩时间不少于1年。

开题报告由导师自行组织，研究生公开汇报，邀请同专业高年级和低年级研究生旁听，由除导师以外的3人以上副高级及其以上职称专家组成开题报告评议小组，对研究生的学位论文开题报告进行评议。评议结果为优、良、合格和不合格四个等级，评议结果为合格及其以上者方可进入下一阶段论文研究工作。首次不合格者，两个月内重新开题，仍未通过者，则按《上海大学研究生培养过程质量监督与管理办法（上大研[2019]8号）》处理。

硕士生开题报告须用A4纸打印，并填写《上海大学硕士学位研究生学位论文开题报告》一式二份。当硕士生开题报告会结束后，由导师写出综合评议意见，并按规定程序审批，通过审批者即可进入论文工作阶段（开题报告材料一份自存，待课题结束并且答辩通过以后归到档案馆科技档案处，另一份交学院存档，同时登录研究生院网站上的研究生信息管理系统进行信息提交）。

开题报告通过后，在不改变主要研究内容前提下论文题目可以微调，但原则上不能对主要研究内容随意更改。如有特殊原因需更改研究内容，由硕士生写书面报告，经指导教师签署意见，院（系、所）负责人审批后，报研究生院培养管理处备案，并应在1-2个月内重作开题报告。

开题报告一般包括以下内容：①课题来源、选题目的和意义。说明选题的理论和实用价值，着重介绍国内外研究现状和本人选题的经过、目的。②课题研究的主要内容，构思及初步见解。着重分析学术构思、技术路线、主要关键技术、实验方案、社会调查、预期结果。③拟采用的研究方法和实验手段，需要的科研条件，阐述课题研究工作可能遇到的困难以及解决的方法和措施。④估计课题的工作量和所需经费，以及研究工作进度计划。⑤主要参考文献（要求不少于30篇）。

(2) 中期考核

为不断提高研究生研究的科学性和有效性，发挥研究生培养过程中的筛选作用，研究生在正式进入学位论文工作前必须要进行中期考核，中期考核一般在第二学年冬季学期前结束。中期考核主要考察研究生的思想品德，学业成绩，业务能力三个方面。对思想品德端正，学习成绩良好，并具有从事科研能力的研究生，中期考核给予通过，进入硕士学位论文工作；对有两门功课不及格，或因休学导致所取得的学分不足毕业要求的3/4，给予延缓中期考核；对于具有下列三种情况之一者，中期考核给予不合格：①有三门功课不及格，②论文开题报告未按期通过，③科研或学习不认真负责、不刻苦，或治学态度不严谨，弄虚作假，缺乏应有的科学道德，考核不合格者予以淘汰。

中期考核实行分流淘汰制，考核的排名结果提交研究生院备案。具体按照《上海大学研究生培养过程质量监督与管理办法（上大研[2019]8号）》予以执行。

2. Dissertation opening report and mid-term assessment

The dissertation opening report and the mid-term assessment are held in the winter semester of the second year after the graduate student enrollment.

(1) Dissertation opening report

Generally, the opening report should be completed during the 4th semester after obtaining the required credits. In order to ensure that master students have one year to engage in dissertation research, the time from the opening report to the dissertation defense is not less than one year.

The opening report will be organized by the supervisor, and the graduate students will report in public, and invite graduate students of the senior and junior grades to attend the report. More than 3 experts (with deputy seniors or above titles) except for the supervisor will form an evaluation panel for the opening report. The results of the evaluation are four grades including excellent, good, qualified and unqualified. If the results of the evaluation are qualified or above, students proceed their research work. Those who fail for the first time can restart the opening report within two months, and those who are still unqualified shall be handled according to “Shanghai University Graduate

Training Process Quality Supervision and Management Measures” .

The opening report of master’ s degree students should be printed on A4 paper and filled in two copies of the opening report of master’ s degree thesis of Shanghai University. When the opening report meeting of master’ s students is over, the supervisor writes out the comprehensive comments and examines and approves them according to the prescribed procedure. Those who are qualified can enter the stage of thesis work. (The opening report material is self- contained and will be filed to the Science and Technology Archives Office of the Archives after the end of the project and the defense is passed. The other one is submitted to the College for archiving, and at the same time, it is registered on the graduate information management system of the graduate school website for information submission.)

After the adoption of the opening report, the title of the paper can be slightly adjusted without changing the main research contents, but in principle, the main research contents can not be changed at will. If there are special reasons to change the research content, a written report will be written by the student. After the instructor’ s signature and approval by the head of the department or institute, the report shall be submitted to the Training Management Department of the Graduate School for the record, and the opening report shall be made again within 1-2 months.

The opening report generally includes the following contents: ① The Source, Selection and Significance of the Subject. Explain the theoretical and practical value of the topic, focusing on the current situation of research at home and abroad, and the course and purpose of my topic selection. Explain the theoretical and practical value of the topic, focusing on the current situation of research at home and abroad, and the course and purpose of my topic selection. ② The main content, conception and preliminary opinions of the subject research. Emphasis

is placed on the analysis of academic ideas, technical routes, key technologies, experimental schemes, social surveys and expected results. ③ The research methods and experimental means to be adopted, the scientific research conditions needed, the difficulties that the research work may encounter and the methods and measures to solve them are described. ④ Estimate the workload and funding of the project, as well as the research progress plan. ⑤ Major references (no less than 30 articles required).

(2) Mid-term assessment

In order to continuously improve the scientificity and effectiveness of postgraduate research and play a screening role in the process of postgraduate training, Postgraduates must undergo mid-term assessment before they formally enter the dissertation work. Mid-term assessment usually ends before the winter semester of the 2nd academic year. The mid-term assessment mainly examines the morality, academic achievement and research capability of graduate students. Only students with good ethics, qualified academic performance and research ability can pass the mid-term examination, and continue their thesis work. Students who fail to pass two courses, or to meet the credits requirements (less than 3/4) due to the suspension of study, can delay their mid-term examination. Students will fail the mid-term examination, if they ① have failed 3 courses; ② are considered lack research capabilities; ③ violate moral principles or academic integrity, and those who fail to pass the examination will be eliminated.

The mid-term assessment shall be carried out by the system of diversion and elimination, and the ranking results of the assessment shall be submitted to the Graduate School for the record. The mid-term assessment will be implemented in accordance with the “Shanghai University Graduate Training Process Quality Supervision and Management Measures”.

3. 学位论文预答辩

硕士学位论文预答辩应在正式答辩前一个月举行，预答辩组织方式和答辩委员人数、职

称要求与正式答辩相同。预答辩通过者才能进行正式答辩。

3. Thesis defense rehearsal

The rehearsal of thesis defense of the master's thesis should be held one month before the formal defense. The organization of the rehearsal and the number and the title requirements of members in evaluation panel are the same as the formal defense. Only a rehearsal passer can make a formal defense.

以上过程以《上海大学国际研究生培养管理办法》为准。实施学位论文学科集中开题与集中预答辩制度过程中，各学科应成立学科学位论文开题小组和学科学位论文预答辩委员会，负责组织本学科内研究生的学位论文集中开题和集中预答辩工作；实行导师回避制度。学科学位论文开题小组和学科学位论文预答辩委员会成员一般不少于3人，职称要求与开题和答辩要求相同；严格分流淘汰。各学科须对参加学位论文集中开题或集中预答辩研究生的考核结果进行排序，并严格按照考核要求对不合格的研究生进行处理。

The above process is subject to "Measures for the Management of International Postgraduate Education of Shanghai University". In the process of implementing the system of centralized topic opening and centralized pre defense, each discipline should set up a subject thesis proposal group and a discipline dissertation pre Defense Committee, which is responsible for organizing the centralized opening and pre defense of graduate students' dissertations, and implementing the tutor avoidance system. In general, there are no less than 3 members in the opening group and pre Defense Committee of subject dissertation. The requirements for professional titles are the same as those for opening and defending. Strict separation and elimination are required. Each discipline should rank the assessment results of the graduate students who participate in the centralized opening of dissertation or the centralized pre defense, and deal with the unqualified graduate students in strict accordance with the assessment requirements.

十一、学位论文 (Dissertation)

学位论文是研究生培养的重要环节，是培养研究生创新能力、分析问题和解决问题能力的主要手段。工作中主要加强以下几个环节：

1. 硕士生应在导师指导下拟订学位工作计划，包括各阶段的主要学习内容。在开题报告前应充分查阅国内外文献资料，提交与专业相关的科技综述报告。

2. 研究生在导师的指导下，选定研究课题，选题应与本专业的基础研究或国民经济建设相结合。开题报告在第一学年结束前进行，应包括发展现状、选题意义、研究内容、技术路线、进度安排以及预期成果等。开题报告须进行公开报告，并由3名以上具有高级职称的专家审议。

3. 强调导师对学位论文的审查制度，严惩论文抄袭和学术造假行为。

4. 强调导师对学位论文的预答辩制度。凡未进行预答辩或预答辩未通过者均不可直接组织正式答辩。

5. 规范学位论文答辩制度以及学位授予程序。硕士生学位论文评阅和论文答辩可按《上海大学学位授予工作实施细则》的规定办理。

6. 申请硕士学位时，须达到《上海大学研究生学位论文“双盲”评议及申请学位创新成果要求的规定（上大内[2022]59号）》和《机电工程与自动化学院研究生申请学位创新成果要求（修订）（机自学院[2022]15号）》。

7. 留学硕士研究生，可以用汉语或英语撰写学位论文和进行论文答辩。使用非汉语接受学历教育的留学硕士研究生，学位论文摘要应当用汉语撰写。留学硕士研究生的学位论文答

辯必須在我校進行。

Scientific Research and Thesis Work

The dissertation is an important part of postgraduate training, and it is the main means to cultivate graduate students' ability to innovate, to analyze and solve problems. This part mainly strengthens the following links:

1. Master students should develop a degree work plan under the guidance of the supervisor, including the main learning content at each stage. Before the opening report, students should fully study the domestic and foreign literature and submit a scientific and reviewing report related to the subject.
2. Under the guidance of the instructor, the graduate students should select the research topic, which is combined with the basic research of the subject or the national economic construction. The opening report shall be conducted before the end of the first school year and shall include the current development status, the meaning of the topic, the research content, the technical route, the schedule and the expected results. The opening report shall be publicly reported and reviewed by more than three experts with senior professional titles.
3. Emphasize the supervisor censorship system, and severely punish plagiarism and academic fraud.
4. Emphasize the defense rehearsal system for dissertations. Anyone who fails to pass a defense rehearsal cannot attend a formal defense.
5. Standardize the dissertation defense system and degree awarding procedures. The evaluation and defense of master's degree thesis can be handled in accordance with the Rules for the Implementation of Degree Granting in Shanghai University.
6. When applying for a master's degree, students need to meet the requirements for innovative achievements of graduate students in Shanghai University and school of Mechatronic Engineering and Automation, Shanghai University.
7. For Foreign postgraduates, they can write their dissertations and defend their dissertations in Chinese or English. For master's degree graduates who use non-Chinese to receive academic education, abstracts of dissertations should be written in Chinese. The dissertation defense of master's degree for foreign postgraduates must be carried out in our university.

附表. 课程与必修环节

学术学位硕士研究生（国际研究生）课程设置与必修环节

类别 (Course Category)	课程编号	课程名称 (Course Name)	学时 (class hour)	学分 (Credits)	开课学期 (Term)	备注 (Remark)
公共课Public Courses	0CS000027	公共体育(Public Physical Education)	20	1	第一学期	必修
	0LY000001	中国概况(General Situation of China)	60	3	第一学期	必修
	0LY000002	综合汉语B(Comprehensive Chinese B)	60	3	第一学期	必修
	4CS000001	创业与创新(Entrepreneurship and Innovation)	20	2	第三学期	创新创业课 2选1
专业基础课 Fundamental Courses	2XSL09202	控制中的数学基础((Mathematic Fundamentals in Control))	40	4	第一学期	必修
	2XSL09203	线性系统理论((Linear System Theory))	40	4	第一学期	必修
专业选修课 Major Elective Courses	3XSL09201	混杂控制与切换系统((Hybrid Control and Switched Systems))	40	4	第二学期	
	3XSL09202	网络化控制系统((Networked control systems))	40	4	第三学期	
	3XSL09203	复杂网络引论((Introduction to Complex Networks))	40	4	第三学期	
	3XSL09204	交流电机控制理论与方法((Control theory and method of AC electrical machines))	40	4	第二学期	
	3XSL09205	电力设备的在线监测和故障诊断((On-line monitoring and diagnosis for power equipment))	40	4	第三学期	
	3XSL09206	离散事件与计算智能技术((Discrete Events and Computational Intelligence Techniques))	40	4	第一学期	
	3XSL09208	互联网安全((Internet Infrastructure Security))	40	4	第三学期	
	3XSL09209	计算机视觉与增强现实(Computer vision and augmented reality)	40	4	第二学期	
	3XSL09210	现代测量测试与传感技术(Modern measurement, testing and sensing technology)	40	4	第一学期	
	3XSL09211	计算机视觉(Computer Vision)	40	4	第二学期	
创新创业课 Innovation and Entrepreneurship Course	4XS092001	前沿发展讲座(Lectures of cutting-edge developments in control engineering)	20	2	第三学期	创业创新课 二选一
学术规范与写作课 Academic Standards and Writing Course	2XS092004	学术英语写作(Scientific Writing)	20	2	第二学期	必修
学术研讨课 Academic Seminar Course	6XSL00001	学术研讨课(Academic Seminars)	20	2	第一学期	必修

跨院系、专业 选修课 (Cross- Disciplinary Optional Courses)	<p>学生可根据自身情况在导师指导下跨院系、专业选取非本专业课程列入培养计划，课程学分计入总学分。</p> <p>(Under the guidance of supervisors, students can select cross-disciplinary optional courses as part of their program. The course scores will be incorporated into the total academic score.)</p>			
补修课 (Designated Complementary Courses)	<p>根据学生具体情况由导师指定选修本科生主干课2-3门（不计入总学分）</p> <p>(Students are required to select two to three undergraduate courses designated by the supervisors, which will not be incorporated into the total academic score.)</p>			
必修环节 (Required Steps)	课程考核 Course Scores		第五学期 Fifth Semester	须通过考核 后方可进入 下一环节 (Move to the next step only after confirming the previous step)
	论文开题 Thesis Proposal		第六学期 Sixth Semester	
	中期考核 Mid-Term Evaluation		第七学期 Seventh Semester	
	论文预答辩 Thesis Pre-Defense		第十学期 Tenth Semester	
	论文答辩 Thesis Final Defense		第十学期 Tenth Semester	

学位评定分委员会主席签章

学院盖章