

动力工程及工程热物理来华留学博士研究生培养方案

Doctoral Degree Program of Power Engineering and Engineering Thermophysics

一、适用学科 (Applicable Discipline)

学科名称: 动力工程及工程热物理

学科代码: 0807

Discipline: Power Engineering and Engineering Thermophysics Discipline Code: 0807

二、主要研究方向 (Main Research Field)

1. 热力发动机/Heat Engine
2. 动力系统控制与测试/Power System Control and Measurement
3. 动力系统振动与噪声控制/Vibration and Noise Control of Ship Power Plant
4. 动力系统结构与强度/Structure and Strength of Power System
5. 燃烧与排放/Combustion and Emission
6. 传热与传质/Heat and Mass Transfer
7. 特种动力及新能源/Special Power and New Energy

三、培养方案 (Curriculum)

1. 课程设置与学分要求 (Courses and Credits)						
课程类别 Category	课程编号 Code	课程名称 Course	学时 Hour	学分 Credit	开课学期 Semester	备注 Remark
公共必修课 General Compulsory Courses	202032020900	中国概况 Survey of China	48	3	2	必选 Compulsory
	202032020901	汉语 Chinese	64	3	1	必选 Compulsory
	202032023009	科学与工程计算 Scientific and Engineering Computing	48	2	1	必选 Compulsory
专业必修课 Professional Compulsory Courses	202010323001	计算流体力学进展 Progress of Computational Fluid Dynamics	32	2	1	必选 1 门 1 Compulsory course
	202010323004	热力学与传热学进展 State of the Art in Thermodynamics and Heat Transfer	32	2	1	
	202010323006	非线性控制理论及应用 Nonlinear Control Theory and Application	32	2	1	
选修课 Optional	202010320001	论文写作指导 Thesis/Dissertation Writing	16	1	1	选修 Optional

Courses	202032020902	汉语交际 Chinese Communication	64	3	1	
	202032020903	HSK 辅导 HSK Tutoring	48	3	2	
	201910310302	高等热力学 Advanced Thermodynamics	48	3	1	
	201910310305	振动分析 Vibration Analysis	48	3	1	
	201910310306	动力装置现代控制理论 Power Equipment Modern Control Theory	48	3	1	
	201910310307	高等流体力学 Advanced Fluid Mechanics	64	4	1	
学分要求 Credit Requirement	<p>应修总学分≥15 学分，其中课程学分≥11 学分，必修环节≥4 学分。 Students should achieve no less than 15credits totally, including the course part 11credits and the compulsory part 4 credits.</p>					
其他要求 Others	<p>1.对于跨学科攻读本专业博士学位的研究生，应由导师根据研究方向需要指定若干门专业核心课程进行补修，只记成绩，不计学分。 2.硕士阶段没有修读“论文写作指导”课程的，一般应选其作为选修课。 3.毕业前中文能力应当达到《国际汉语能力标准》三级水平。 1.The interdisciplinary doctoral candidates are required to take several professional core courses designated by their supervisors, which record grades only without any credits. 2.Those who have not taken the course of "Thesis Writing" in the master's degree programs are required to study it as an optional course. 3.Before the graduation, all international students are required to pass HSK band III (level) at least.</p>					
2.必修环节及要求 (Compulsory Parts and Requirements)						
必修环节名称 Compulsory Part	学分 Credit	开课 学期 Semester	考核内容或要求 Assessment Requirement		考核方式 Exam Method	备注 Remark
学术活动 Academic activities	1	5	<p>博士生在答辩前至少应参加5次以上本专业或相关专业的学术讲座，并在国内或国际学术会议上至少做1次学术报告，学术报告的内容要与所研究的课题相关。每次参加学术讲座后要有500字左右的总结报告，注明参加学术活动的时间、地点、报告人、学术报告题目，简述内容并阐明自己对相关问题的学术观点或看法，经导师签字后交学院教务办公室审核，给予相应学分。 Doctoral students should attend at least 5 academic lectures in this major or related majors, and make at least 1 academic report at a domestic or international academic conference. The content of the academic report should be related to the dissertation being studied. After each academic lecture, you must have a summary report of about 500 words, indicating the time, place, reporter and academic report title. Briefly outline the content and clarify your academic views or opinions on related issues. After being</p>		由院系负责 考核 Assessed by the related College	必选 Compulsory

学术活动 Academic activities	1	5	signed by the supervisor, it will be submitted to the Academic Affairs Office of the College for review and the credit will be given accordingly.	由院系负责考核 Assessed by the related College	必选 Compulsory
文献综述与开题报告 Literature review and thesis proposal	2	4	<p>研究生在导师指导下阅读本学科及相关学科的经典文献和国内外最新文献，形成文献综述与开题报告。本环节由开题报告小组负责考核，通过开题报告者取得相应学分。具体细则按学校文件规定执行。</p> <p>Under the guidance of supervisors, the doctoral students should consult the latest literature of this discipline at home and abroad, write a literature review and opening report. In this session, the opening report team is responsible for the assessment, and the corresponding credits are obtained. Specific rules shall be implemented in accordance with the provisions of the university documents.</p>	由开题报告小组负责考核 Assessed by the thesis proposal group	必选 Compulsory
中期检查 Process assessment	1	6	<p>中期检查有助于及时发现研究生学位论文工作中存在的问题，从而保证学位论文质量。中期检查一般最迟于开题后一年内进行，通过中期检查的博士生取得相应学分。具体细则按学校文件规定执行。</p> <p>Process assessment helps to find out the problems timely in the work of graduate degree dissertation, thereby ensuring the quality of the dissertation. It is generally carried out no later than one year after the proposal, and the doctoral students who pass process assessment obtain corresponding credits. Specific rules shall be implemented in accordance with the provisions of the university documents.</p>	由中期检查小组负责考核 Assessed by process assessment group	必选 Compulsory

3.学位论文要求 (Degree Thesis/Dissertation Requirement)

对学位论文的学术道德、学术水平、创新性成果、论文撰写、预答辩以及答辩等方面的具体要求：

The degree thesis requirements with the contents of academic ethics, academic level, creative outcome, thesis/dissertation writing, pre-defense and final defense of graduation:

研究生在发表学术论文和学位论文的有关工作中，应严格按照《哈尔滨工程大学研究生学术道德规范管理办法》（校研字[2009]16号）、《哈尔滨工程大学科研诚信建设与学术不端行为处理办法》（哈工程党发[2019]36号）等要求，恪守职业道德，维护科学诚信。发表学术成果、论文撰写、学位论文预答辩及答辩的具体要求和流程等参照《哈尔滨工程大学博士学位研究生学位授予工作细则》（哈工程校发[2016]163号）、《哈尔滨工程大学关于博士学位申请者发表学术论文的规定》（校研字[2013]45号）和学院的相关规定执行。

Graduate students should strictly follow the relevant requirements in “HEU Administrative Regulations on the Graduates Academic Ethics” (HEU [2009] No. 16), “HEU Administrative Regulations on the Research Integrity Construction and Academic Misconduct” (HEU [2019] No. 36) and other requirements, abide by professional ethics and maintain scientific integrity. For the specific requirements and procedures of publishing academic achievements, dissertation writing, pre-defense and final defense of graduation, please refer to “HEU Rules on Doctoral Degree Awarding Work” (HEU [2016] No. 163), and “HEU Regulations on Academic Papers Publications of Doctoral Candidates” (HEU [2013] No. 45) and the relevant regulations of the university and the college.