

# 管理科学与工程来华留学博士研究生培养方案

## Doctoral Degree Program of Management Science and Engineering

### 一、适用学科 (Applicable Discipline)

学科名称: 管理科学与工程

学科代码: 1201

Discipline: Management Science and Engineering

Discipline Code: 1201

### 二、主要研究方向 (Main Research Field)

- 1.管理科学理论与方法/Theory and Method of Management Science
- 2.系统工程与金融工程/System Engineering and Financial Engineering
- 3.先进制造与战略管理/Advanced Manufacturing and Strategic Management
- 4.科技管理与创新管理/S & T Management and Innovation Management
- 5.数据挖掘与决策分析/Data Mining and Decision Analysis
- 6.知识管理与知识工程/Knowledge Management and Engineering

### 三、培养方案 (Curriculum)

1.课程设置和学分要求 (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
专业必修课 Professional Compulsory Courses	202010920002	大数据挖掘与商务智能 Big Data Mining and Business Intelligence	32	2	2	必选 Compulsory
	202010920004	高级计量经济学 II Advanced Econometrics II	32	2	1	必选 Compulsory
	202010921001	现代管理科学前沿 The Frontier of Modern Management Science	16	1	1	必选 Compulsory
选修课 Optional Courses	202010920001	论文写作指导 Thesis/Dissertation Writing	16	1	1	选修 Optional
	202010920003	高级计量经济学 I Advanced Econometrics I	32	2	1	选修 Optional
	202010920005	高级运筹学 Advanced Operations Research	48	3	1	选修 Optional
	202010920006	高级管理学 Advanced Management	32	2	1	选修 Optional

选修课 Optional Courses	202010920007	高级应用统计学 Advanced Applied Statistics	32	2	1	选修 Optional
	202010920008	管理建模与仿真 Management Modeling and Simulation	32	2	2	选修 Optional
	202010920009	管理优化模型方法 Management Optimization Model Method	24	1.5	2	选修 Optional
	202010920010	博弈论 Game Theory	24	1.5	2	选修 Optional
	202010920011	案例与质性研究方法 Cases and Qualitative Research Methods	32	2	1	选修 Optional
	202010920012	决策理论与方法 Decision Making Theory and Methods	24	1.5	2	选修 Optional
	202010920013	技术管理与创新管理理论专题 Technical Management and Innovation Management Theory	32	2	2	选修 Optional
	202010920014	分位数回归分析 Quantile Regression Analysis	16	1	2	选修 Optional
	202010920015	公共政策前沿研究专题 Public Policy Frontier Research Topics	32	2	1	选修 Optional
	202032020902	汉语交际 Chinese Communication	64	3	1	选修 Optional
	202032020903	HSK 辅导 HSK Tutoring	48	3	2	选修 Optional
	202032023002	高级学术英语写作 Advanced Academic English Writing	32	2	1	选修 Optional
	202032023004	高级英语阅读 Advanced English Reading	32	2	1	选修 Optional
<b>学分要求 Credit Requirement</b>	<p>应修总学分≥18 学分，其中课程学分≥14 学分，必修环节≥4 学分。 Students should achieve no less than 18 credits totally, including course part 14 credits, compulsory part 4 credits.</p>					
<b>其他要求 Others</b>	<p>1. 博士生在导师指导下允许选修跨一级学科课程，学分不限。 2. 跨学科攻读本学科博士学位的研究生，应在导师指导下选择若干门硕士阶段专业核心课作为补修课程，只记成绩，不计学分。 3. 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。 4. 毕业前中文能力应达到《国际汉语能力标准》五级水平。 1. Doctoral students are allowed to take cross discipline courses with unlimited credits under the guidance of their tutors. 2. For graduate students who enrolled in this discipline from other specialties, they should select a number of professional core courses in master's stage as supplementary courses under the guidance of their tutors, and only record their scores, not credits. 3. 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. 4. Before the graduation, all international students are required to pass HSK band V (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>学术活动的形式包括参加研究生学术讨论会、学术报告会和国内外学术会议，通过学术活动开阔学术视野，启发学术思维，促进学术研究。学术学位博士生参加学术讲座的次数不少于5次，且至少做1次学术报告，本环节经院系专家考核后，交教务办留存。</p> <p>The forms of academic activities include attending graduate seminars, academic conferences and academic conferences at home and abroad. By attending academic activities, postgraduates can broaden academic horizons, establish academic thinking and promote academic research. The number of academic lectures attended by academic degree doctoral students shall not be less than 5 times, and at least 1 academic report shall be written. This report will be handed over to the academic affairs office for retention after being assessed by the experts of the department.</p>	由院系负责考核 Assessed by the related department of school	至少选择1个环节 Select one part at least
创新竞赛与创业活动 Innovation competition and entrepreneurial activities	1	5	<p>博士研究生参加“中国研究生创新实践系列大赛”或国家层面组织的创新创业活动等，符合学校有关规定条件的，获得创新竞赛与创业活动成绩及学分。</p> <p>Doctoral students who participate in the "China Graduate Innovation Practice Series competition" or the innovation and entrepreneurship activities nationally organized and meet the relevant requirements of the school will obtain scores and credits in the innovation competition and entrepreneurship activities.</p>	由研究生院学术办公室考核 Assessed by the Academic Affairs Office of the Graduate School	
文献综述与开题报告 Literature review and thesis proposal	2	4	<p>学术学位博士研究生在导师指导下阅读与学生毕业论文选题相关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，通过开题报告的研究生获得2学分。</p> <p>Under the guidance of tutors, graduate students of doctoral academic degree should read the classic literature and the latest domestic and foreign literature related to the topic selection of students' graduation thesis to form literature review and opening report. The opening report group is responsible for the assessment of this link, and the graduate students who pass the opening report get 2 credits.</p>	由开题报告小组负责考核 Assessed by the thesis proposal group.	必选 Compulsory

<p>中期检查 Process assessment</p>	<p>1</p>	<p>6</p>	<p>中期检查的主要内容为：论文工作是否按开题报告预定的内容及进度进行；已完成的内容及研究结果；目前存在或预期可能出现的问题；论文按时完成的可能性。本环节由中期检查小组负责考核，通过中期检查的研究生获得 1 学分。</p> <p>The main contents of the mid-term inspection are: whether the paper work is carried out according to the schedule and plan of the opening report; How the dissertation was completed; What are the existing problems; What is the possibility of completing the paper on time. The mid-term inspection team is responsible for the assessment of this link, and postgraduates who pass the mid-term inspection will get 1 credit.</p>	<p>由中期检查小组负责考核 Assessed by process assessment group</p>	<p>必选 Compulsory</p>
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### 3.学位论文要求（Degree Thesis Requirements）

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

**学术道德：**博士生在攻读学位期间，要注重培养和提高自身学术道德修养，遵守学术研究的基本规范，自觉抵制学术不端行为。应参加学校和学院组织的学术道德和学术规范讲座，同时撰写不少于 500 字的学习报告或心得体会，由导师组审阅同意后交学院人才培养办公室存档。在发表学术论文和撰写学位论文等有关工作中，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》要求，恪守职业道德，维护科学诚信。博士生导师在博士生培养过程中需对博士生进行学术道德教育和学术规范训练，并对博士生做出明确要求。

**学术水平：**在本门学科上掌握坚实宽广的基础理论和系统深入的专门知识；具有独立从事创造性科学研究工作、分析及解决本学科领域关键技术问题的能力；能够在本学科相关领域的科学或专门技术上做出创造性的成果，并符合学校和学院的相关要求。

**创新成果：**学位论文应对所研究的课题有新的见解，对学术发展、经济建设和社会进步有一定的促进作用。创新成果具体要求按学校及学院相关文件执行。

**论文撰写：**博士学位论文撰写的要求按学校及学院相关文件执行。

**论文预答辩及答辩：**博士学位论文预答辩及答辩的要求按学校及学院相关文件执行。

**Academic ethics:** During the course of studying for a degree, doctoral students should pay attention to the cultivation and improvement of their own academic ethics; abide by the basic norms of academic research, and consciously resist academic misconduct. Students shall attend lectures on academic ethics and academic norms organized by the University and the college, and write a study report or notes of no less than 500 words, which shall be reviewed and approved by the tutor group and then submitted to the personnel training office of the college for filing. In publishing academic papers and writing dissertations, we should strictly abide by professional ethics and maintain scientific integrity in accordance with the requirements of administrative measures for academic ethics of graduate students of Harbin Engineering University. In the process of cultivating doctoral students, doctoral supervisors need to carry out academic moral education and academic standard training for doctoral students, and make clear requirements for doctoral students.

**Academic level:** Master solid and broad basic theories and systematic and in-depth expertise in the discipline; have the ability to independently engage in creative scientific research; analyze and solve key technical problems in the discipline; be able to make creative achievements in the science or technology related to the discipline, and meet the

relevant requirements of the school and college.

**Creative outcome:** The dissertation should have new ideas on the research topic, which can promote the academic development, economic construction and social progress. The specific requirements for creative outcomes shall be implemented in accordance with the relevant documents of the university and the college.

**Thesis writing:** The requirements for writing doctoral dissertation shall be in accordance with the relevant documents of the university and the college.

**Pre-defense and defense:** The requirements for the pre defense and defense of doctoral dissertation shall be in accordance with the relevant documents of the university and the college.