

**华北电力大学（留学生）英语授课**  
**North China Electric Power University (International Student) Taught in English**  
**工商管理一级学科博士学位研究生培养方案**  
**Training Program for Doctoral Students in First-level Discipline of Business Management**

（专业代码：1202 授予管理学博士学位）

(Major Code: 1202, Degree: Doctoral Degree of Management)

**一、学科简介**

**I. Brief Introduction to the Discipline**

“工商管理”一级学科博士点于 2011 年 3 月获国务院学位办授权。设有博士后流动站，第四轮学科评估中“工商管理”学科排名位列 B+。我校该学科设“技术经济及管理”、“企业管理”、“能源管理”与“会计学”四个二级学科。其中“技术经济及管理”二级学科博士点于 1998 年 10 月获得国务院学位办授权，是北京市和河北省的省部级重点学科，学科核心专业工商管理为国家级和北京市特色专业，由华北电力大学经济与管理学院承担培养任务。

The doctoral program of the first-level discipline of Business Management was authorized by the Office of Academic Degrees Commission under the State Council in March 2011. A post-doctoral research program is established, in the fourth round of discipline evaluation, the discipline of Business Management was rated as B+. Our university has been authorized to set four second-level disciplines such as Technical Economy and Management, Enterprise Management, Energy Management and Accounting. Among them, the second-level discipline of Technical Economy and Management was authorized by the Office of Academic Degrees Commission under the State Council in October 1998. It is a provincial and ministerial key discipline in Beijing and Hebei Province. Business Management, the core major of the discipline, is a characteristic specialty of China and Beijing, the training tasks of which are

undertaken by the School of Economics and Management of North China Electric Power University.

长期以来我校该学科利用技术经济及管理、企业管理、能源管理及会计学的理论致力于解决国民经济建设尤其是电力行业急需的重大工商管理问题，在大数据预测与评价理论及应用、优化理论与技术经济决策、电力市场理论与应用、电力经济管理、企业发展管理理论与应用、人力资源管理理论与应用、企业营销理论与应用、企业经营管理理论与应用、能源发展理论与应用、财务管理理论与应用、会计理论与方法、能源互联网与综合能源系统等方面开展了卓有成效的研究，形成了鲜明的电力与能源特色。

For a long time, the discipline of our university has been making use of the theories of technical economy and management, enterprise management, energy management and accounting to solve major industrial and commercial management problems urgently needed by the national economic construction, especially the electric power industry, and carried out fruitful research on Theory and Application of Prediction and Evaluation for Big Data, Optimization Theory and Techno-Economic Decision-making, Theory and Application of Electric Power Market, Electric Power Economic Management, Theory and Application of Enterprise Development Management, Theory and Application of Human Resource Management, Theory and Application of Enterprise Marketing, Theory and Application of Enterprise Operation and Management, Theory and Application of Energy Development, Theory and Application of Financial Management, Accounting Theory and Method, Energy Internet and Integrated Energy System and other aspects, forming distinct characteristics of electric power and energy.

学科团队先后获得国家社会科学基金重大项目，教育部人文社科研究项目重大课题攻关项目，“中国绿色电力发展研究创新引智基地”（“111 计划”引智基地）多项国家自然科学基金、国家社科基金等省部级以上纵向项目，多项国家级教学成果二等奖和省部级科研及教学成果奖。该学科师资涵盖了获得长江学者特聘教授，国务院特殊津贴，新世纪优秀人才支持计划，百千万人才工程等称号的教授学者，已经造就了一支学术水平高、骨干年轻化、梯队结构合理、科研力量

雄厚的学术队伍。具备培养工商管理博士研究生的各项条件，在工商管理领域具有雄厚的实力和完备的学科体系，是为电力、能源工业及地方建设培养高级工商管理人才的摇篮。

The team of the discipline has successively obtained major projects of the National Social Science Fund of China, key projects of important subjects of the research program of the humanities & social sciences of the Ministry of Education, "Research, Innovation and Talent Introduction Base of Green Electric Power Development in China" (the talent introduction base of "111 Plan"), a number of government sponsored research projects of National Natural Science Foundation of China, the National Social Science Fund of China and other longitudinal projects at the provincial and ministerial levels, a number of second prizes in national teaching achievements and scientific research and teaching achievements at provincial and ministerial levels. The discipline has a teaching team consisting of distinguished professors and scholars being awarded the title of the "Yangtze River Scholar", enjoying the Special Allowance of the State Council, and being listed in the New Century Excellent Talents Supporting Plan and the National Hundred, Thousand and Ten Thousand Talents Project. An academic team with high academic level, younger backbones, reasonable structure and strong scientific research capability has been established. It has various conditions required for training doctoral students majoring in Business Management, and has strong strength and complete discipline system in the field of Business Management. It is the cradle of training senior talents in Business Management for electric power and energy industries and local construction.

## 二、培养目标

### II. Training Objectives

1. 培养对中国有良好认知，理解中国社会主流价值观，具有相应的中文语言能力，具备一定跨文化胜任力和全球胜任力，在所在学科具有相当专业知识和学术能力的国际化人才。

1. Cultivate international talents who have a good understanding of China, understand the mainstream values of Chinese society, have corresponding Chinese language skills, have certain cross-cultural and global competencies, and have

considerable professional knowledge and academic abilities in their disciplines.

2. 在工商管理学科内掌握坚实宽广的基础理论和系统深入的专门知识，了解本学科专业的前沿动态，具有独立从事科学研究工作的能力，并要初步具有主持较大型科研、技术开发项目，或解决和探索某国经济、社会发展问题和电力与能源工业工商管理问题的能力，在科学或专门技术上做出创造性的成果，能够胜任本专业或相近专业的科研、教学及电力与能源工业、政府、企业等单位的工商管理和科研工作。

2. Have solid and broad basic theories and systematic and in-depth knowledge in the discipline of Business Management, understand the cutting-edge trends of the discipline, engage in scientific research independently, initially preside over large-scale scientific research and technological development projects, or solve and explore the economic and social development problems of a country and the business management problems of the electric power and energy industries, make creative achievements in scientific or specialized technologies, and be competent for the scientific research and teaching of this major or similar majors, as well as the business management and scientific research work of electric power and energy industries, government, enterprises and other institutes.

### 三、研究方向

#### III. Research Direction

##### 1. 大数据预测与评价理论及应用

###### 1. Theory and Application of Prediction and Evaluation for Big Data

该方向主要研究区域经济发展需求预测分析，能源电力发展需求预测分析，短、中、长期电力负荷预测，大数据挖掘与分析技术，区域经济特别是区域电力发展规划、工程建设项目技术经济分析评价，可行性分析与项目论证，项目投资与风险评价分析，经济效果分析，国民经济评价，可持续发展与项目后评价，企业经营管理评价，不确定性分析，综合评价及其应用。

The direction focuses on the study of forecast and analysis of regional economic development demand, forecast and analysis of energy and electric power development demand, short-, medium- and long-term electric power load forecasting, big data mining and analysis technologies, regional economy, especially regional electric

power development planning, technical and economic analysis and evaluation of construction project, feasibility analysis and project demonstration, project investment and risk assessment analysis, economic effect analysis, national economic evaluation, sustainable development and post project evaluation, evaluation of enterprise operation and management, uncertainty analysis, comprehensive evaluation and its application.

## 2. 优化理论与技术经济决策

### 2. Optimization Theory and Techno-Economic Decision-Making

该方向主要研究各类优化理论,以及优化理论在电力企业生产经营中的应用,如发电企业生产经营中的优化方法及应用、输电企业生产经营中的优化方法及应用、供电企业生产经营中的优化分析与应用和电力企业投资规划中的优化方法等。同时,也要对国民经济发展中的相关规划、管理的优化问题、其它企业生产经营中的优化管理理论分析及方法进行研究。

The direction focuses on the study of all kinds of optimization theories and their application in the production and operation of electric power enterprises, such as the optimization methods and their application in the production and operation of power generation enterprises, the optimization methods and their application in the production and operation of power transmission enterprises, the optimization analysis and its application in the production and operation of power supply enterprises, and the optimization methods in investment planning of electric power enterprises. It also studies the optimization of relevant planning and management in national economic development, and the theoretical analysis and methods of optimal management in the production and operation of other enterprises.

## 3. 电力经济管理

### 3. Electric Power Economic Management

该方向主要研究电力产业与国民经济协调发展关系(宏观)、电力产业经济管理(中观)、电力企业经济管理(微观)三大主要模块内容。具体内容包括:电力技术经济分析,电力投资经济分析,电力项目经济分析,电网和电源协调投资规划,电力经济调度,电力交易经济分析,电力产业结构分析,电力价格分析,电力企业风险控制,发电企业竞价分析,发电企业竞争力评估模型,电网企业经营能力评估模型,煤炭、发电、输配电、供电的价格链分配优化,节能发电调度优化问题,电力市场绩效评估模型,电力监管的经济学依据问题等。

The direction focuses on the study of three main modules: the coordinated development relationship between the electric power industry and the national economy (macro), the economic management of the electric power industry (meso), and the economic management of electric power enterprises (micro). The specific contents include: technical and economic analysis of electric power, economic analysis on electric power investment, economic analysis on electric power projects, investment planning of power grid and power supply coordination, economic dispatch of electric power, economic analysis on electric power transaction, structural analysis on electric power industry, electricity price analysis, risk control of electric power enterprises, bidding analysis of power generation enterprises, competitiveness evaluation model of power generation enterprises, evaluation model of operation capability of power grid enterprises, optimization of price chain distribution of coal, power generation, power transmission and distribution and power supply, optimization of energy-saving and power generation dispatching, performance evaluation model of electric power market, economic basis of electric power regulation and so on.

#### **4. 企业发展管理理论与应用**

#### **4. Theory and Application of Enterprise Development Management**

该方向依托学院特色，以电力企业发展管理研究为突破口，探索能源型企业的可持续发展问题。“企业发展动力”与“企业核心竞争力”作为企业可持续发展的两大命脉，是本研究方向的重点研究领域，主要研究内容包括：一是企业发展动力的理论与应用、构成与特征以及机制与策略等，二是企业核心竞争力的组织设计、培育与构建、评价体系以及应用实践等。通过新的视角对这两个领域进行深入研究，揭示企业发展的本质，提出创新性研究成果。

Relying on the characteristics of the school, the direction explores the sustainable development of energy-oriented enterprises based on the research on the development and management of electric power enterprises. "Enterprise development impetus" and "enterprise core competitiveness", as the two lifelines of enterprise sustainable development, are the key research fields of this research direction. The main research contents include: first, the theory and application, composition and characteristics, and mechanism and strategy of enterprise development impetus; second, the organizational design, cultivation and construction, evaluation system and application practice of enterprise core competence. In-depth studies have made in these two fields

from a new perspective to reveal the nature of enterprise development and put forward innovative research results.

## **5. 人力资源管理理论与应用**

### **5. Theory and Application of Human Resource Management**

该方向主要研究企事业单位人力资源管理体系设计及其相关前沿理论的应用，包括：组织设计与组织优化理论研究，业务流程理论与优化设计，全员绩效管理体系设计研究，薪酬与福利体系研究，人力资源规划与人员需求预测，劳动定额标准研究，三定（定岗、定员、定责）方法与应用研究，能力素质与岗位胜任力分析与研究，岗位价值评价模型设计研究，人才成长与培养机制研究，高端人才管理及核心人才职业生涯规划，劳动关系及劳动政策法规研究等。

The direction focuses on the design of human resource management system in enterprises and institutions and the application of related cutting-edge theories, including: research on organizational design and organizational optimization theory, business process theory and optimization design, design and research of all-staff performance management system, research on salary and welfare system, human resource planning and personnel demand forecasting, research on labor quota standard, methods of three determinations (post, personnel quota and responsibility determination) and the application research, analysis and research on competence and post competency, design and research of evaluation model of post value, research on personnel growth and training mechanism, high-end personnel management and career planning for core personnel, research on labor relations and labor policies and regulations.

## **6. 能源发展理论与应用**

### **6. Theory and Application of Energy Development**

该方向主要包括能源政策、能源市场经济与管理理论及应用方面的研究。能源政策的具体内容包括：能源价格、补贴、税收等低碳政策间的传导与协同机理研究、多元能源政策的动态优化分析与应用、能源政策模型构建与仿真研究、能源低碳发展路径研究；能源市场经济与管理理论及应用的具体内容包括：集中式与分布式能源发展规划及协同优化理论与实务、能源电力交易理论与实务、能源电力营销管理理论及应用、能源电力风险管理理论及应用等。

The direction focuses on the study of energy policy, theory and application of energy market economy and management. The specific contents of energy policy

include: research on the transmission and coordination mechanism of low-carbon policies in energy price, subsidy, taxation and other aspects, dynamic optimization analysis and application of diversified energy policies, construction and simulation of energy policy model, research on the low-carbon energy development path. The specific contents of the theory and application of energy market economy and management include: centralized and distributed energy development planning and theory and practice of collaborative optimization, theory and practice of energy and power transaction, theory and application of energy and electric power marketing management, theory and application of energy and electric power risk management and so on.

## **7. 财务管理理论与应用**

### **7. Theory and Application of Financial Management**

该方向主要研究财务管理基本理论、财务管理方法改进与创新，成本控制理论与方法，企业投资与融资的理论与方法，企业财务风险控制，企业资本运作、企业价值评估，企业并购理论与实务，企业多元化财务问题，企业战略与财务战略，公司治理理论与实务，企业绩效评价与激励，电力投融资决策问题，电力企业资本运作与绩效评价等。

The direction focuses on the study of basic theory of financial management, improvement and innovation of financial management method, theory and method of cost control, theory and method of enterprise investment and financing, enterprise financial risk control, enterprise capital operation, enterprise value assessment, theory and practice of enterprise M & A, financial problems of enterprise diversification, corporate strategy and financial strategy, theory and practice of corporate governance, corporate performance evaluation and incentives, power investment and financing decision-making issues, capital operation and performance evaluation of power enterprises, etc.

## **8. 会计理论与方法**

### **8. Accounting Theory and Method**

该方向主要研究会计基本理论及其变迁，会计确认、计量、核算与报告理论与实务重大问题，会计准则建设与应用，会计与资本市场，中外会计比较，法务会计，会计研究方法，电力行业会计问题，特殊领域会计（环境会计、人力资源



会计、衍生工具会计等)问题;同时也开展对审计领域问题的研究,包括审计基本理论研究、风险审计与审计风险、审计质量管理等。

The direction focuses on the study of the basic accounting theory and its changes, accounting recognition, measurement, major issues about theory and practice of accounting and reporting, construction and application of accounting standards, accounting and capital markets, Chinese and foreign accounting comparison, forensic accounting, accounting research methods, accounting issues in the electric power industry, and accounting (environmental accounting, human resources accounting, derivative accounting, etc.) issues in special areas; as well as study on audit issues, including basic audit theory, risk audit and audit risk, and audit quality management.

## **9. 能源互联网与综合能源系统**

### **9. Energy Internet and Integrated Energy System**

该方向主要研究能源互联网基础理论,电、冷、热、气多种能源互联互通形式下的能量高效传递/转化/存储与系统集成方法、研究能源互联网中冷、热、电、气等多品位能源的多能互补理论与方法,源-网-荷-储多环节的协同优化理论与方法;研究综合能源系统的规划优化理论与应用,运行优化理论与应用,市场交易理论与应用,效益评估理论与应用,综合能源系统投资与风险管理方法,综合能源服务关键技术;研究能源互联网与综合能源系统的商业模式,能源市场与价格等以及能源互联网与综合能源系统发展所涉及的能源政策、战略及发展路径等。

The direction focuses on the study of basic theory of energy Internet, efficient energy transfer/conversion/storage and system integration under the interconnection of electricity, cold, heat and gas, the complementarity theory and method of cold, heat, electricity, gas and other multi-grade energy types in the energy Internet, and the collaborative optimization theory and method of multiple links of source-grid-load-storage; the planning optimization theory and application of the integrated energy system, operation optimization theory and application, market transaction theory and application, benefit evaluation theory and application, integrated energy system investment and risk management method, key technologies of integrated energy service; business model of the energy Internet and integrated energy system, the energy market and price, as well as the energy policies, strategies and development paths involved in the development of energy Internet and integrated energy system.

## 四、培养方式

### IV. Training Method

1. 博士生培养实行导师负责制，必要时可设副导师或组成指导小组。导师是研究生培养第一责任人，要了解掌握研究生的具体状况，将专业教育与日常教育有机融合，既作学业导师，又作人生导师，严格要求学生遵守科学道德和学术规范。

1. The training of doctoral students implements supervisor responsibility system, if necessary, a secondary-supervisor or a Steering Group may be introduced. The supervisor is the person of primary responsibility for doctoral students training who shall understand and master the specific condition of postgraduates and organically integrate professional education with daily education both as academic mentors and life mentors. The supervisor should also strictly require students to abide by scientific ethics and academic norms.

2. 博士生的培养以科学研究工作为主，重点是培养博士生独立从事科学研究工作和进行创造性研究工作的能力；并根据研究需要继续深入学习一些课程，在拓宽基础、加深专业、掌握学科发展前沿的基础上学会进行创造性研究工作的方法和培养严谨的科学作风。

2. The training of doctoral students is mainly on scientific research work, with emphasis on cultivating the ability to independently engage in scientific research work and creative research work. Doctoral students should continue to study some courses in depth according to the needs of the research; moreover, they should learn the methods of creative research work and cultivate a rigorous scientific style on the basis of broadening the foundation, deepening the specialty and grasping the forefront of discipline development.

3. 博士生的培养可在校内进行，也可由国内、国际的高校以及科研院所联合培养。

3. The training of doctoral students can be carried out in the campus of the university as well as in the joint academic institutes at home or abroad.

## 五、学制与学习年限

### V. Educational System and Duration of the Program

学制 4 年，学习年限 3-8 年，硕博连读至少满足 2+3 或 1+4（硕士阶段+博士阶段）。因特殊情况需要延长学习年限的，应提前半年由博士生提出申请，经导师同意、学院领导审核、报国际教育学院批准、研究生院备案。获中国政府奖学金的学生如要继续享受奖学金需提前向所属国家驻华大使馆和国家留学基金管理委员会申请，获得批准后，才能继续享受奖学金待遇，否则需自费完成学业。

The educational system is 4 years. The duration of the program is 3-8 years, and the duration of the successive postgraduate and doctoral program is at least 2+3 or 1+4 years (the postgraduate period + the doctoral period). The doctoral students shall apply in half a year in advance if they require an extension for the study due to some special circumstances, and the application shall be approved by their supervisors, reviewed by the leaders of the school, submitted to the International Education Institution for approval and the Graduate School for the record. Students who are supported by the Chinese government scholarship need to apply for continuing scholarship from both their home country embassy in China and China Scholarship Council. Otherwise, they will have to complete their studies at their own expense.

## 六、课程设置及学分要求

### **VI. Curriculum and Credit Requirements**

博士生的课程设置应以培养博士研究生创造性地从事研究工作的能力为目标，以教育创新为手段，以创新教育平台建设为主线，根据博士研究生培养的要求，拓宽、加深学科需要的基础理论，把握本学科发展或交叉学科发展的前沿动态。通过课程学习，为博士论文选题与科研方法创新奠定坚实基础理论。

The curriculum of doctoral students shall aim at cultivating the students' ability to engage in research work creatively, take educational innovation as a means, focus on the construction of innovative education platform, broaden and deepen the basic theories required by the discipline according to the requirements of cultivating doctoral students, reflect the frontier trends of the development of the discipline or interdisciplinary development, and lay a solid foundation for the students' topic selection of doctoral dissertation and the innovation of scientific research methods through course study.

博士生的课程设置分学位课、必修环节和任选课三大类。学位课分公共课、基础理论课、专业核心课。博士研究生在校期间，应修最低学分为 20 学分，其中学位课 14 学分，必修环节 6 学分。具体要求如下：

The curriculum for doctoral students consists of three categories: degree courses, required links and optional courses. Degree courses are divided into public courses, basic theoretical courses and specialized core courses. During the period of doctoral students in school, the minimum credit requirement is 20 credits, including 14 credits for degree courses and 6 credits for required links. Specific requirements are as follows:

**1. 学位课（14 学分），其中：**

**1. Degree courses (14 credits), of which:**

公共课：汉语综合(1)：4 学分（64 学时）；

Public courses: Chinese Comprehension (1): 4 credits (64 class hours);

汉语综合(2)：4 学分（64 学时）；

Chinese Comprehension (2): 4 credits (64 class hours);

中国概况(英文)：2 学分（32 学时）；

Introduction to China (English): 2 credits (32 class hours);

基础理论课：2 学分；

Basic theoretical courses: 2 credits;

专业核心课：2 学分。

Specialized core courses: 2 credits.

要求博士生在基础理论方面，应进一步掌握现代数学等高层次的宽厚的基础理论，为研究方法的创新提供坚实的理论基础；在专业核心课程的设置中以研究型的专业基础课程为基础，以加强博士研究生的学术理论训练为主，使学生把握本学科发展的前沿动态，培养学生发现问题、提出问题、分析问题的批判性思维能力和创新思维能力以及解决实际问题的能力。

Doctoral students are required to further master the high-level and broad basic theories such as Modern Mathematics, so as to provide a solid theoretical basis for the innovation of research methods. The setting of the specialized core courses is based on the research-oriented professional basic courses, focusing on strengthening the

academic theory training of doctoral students, so as to enable students to grasp the frontier trends of the development of this discipline, cultivate students' critical thinking ability and innovative thinking ability of discovering, raising and analyzing problems as well as the ability to solve practical questions.

**2. 必修环节（6 学分），包括：**

**2. Required links (6 credits), including:**

研究生科学道德与学术规范 1 学分；

Scientific Ethics and Academic Norms for Postgraduates: 1 credit;

研读专业经典名著 1 学分：博士生在学习期间，须在导师的要求与指导下，研读本专业至少 1 本经典名著，完成后记 1 学分；

Professional Classics Studying (1 credit): During the study of doctoral students, they must, under the requirements and guidance of their supervisors, study at least one classic masterpiece of this discipline, and they shall get 1 credit upon completion;

文献综述与选题报告 2 学分；

Literature Review and Thesis Proposal: 2 credits;

前沿讲座与专题研讨 1 学分：参加前沿讲座与专题研讨是培养博士生综合能力和进入学科前沿的重要环节。博士生在学习期间，应在导师确定的专题领域，至少参加 8 次前沿讲座与专题研讨，完成后记 1 学分；

Cutting-edge Lectures and Seminars (1 credit): Participating in cutting-edge lectures and seminars is an important link to cultivate the comprehensive ability of doctoral students and help them to enter the forefront of the discipline. During the period of study, doctoral students should participate in at least 8 cutting-edge lectures and seminars in the special areas determined by their supervisors, and they shall get 1 credit upon completion;

博士论坛 1 学分：要求博士生至少做 2 次学术报告，完成后记 1 学分。

Doctoral Forum (1 credit): Doctoral students are required to make at least 2 academic reports, and they shall get 1 credit upon completion;

**3. 补修课程**

**3. Supplementary courses**

硕士阶段非本学科的博士生应补修由导师指定的若干本学科硕士阶段主干课程。补修课程不计入总学分。

Doctoral students who are not in their own disciplines at the postgraduate stage should take several major courses of postgraduate stage of this discipline designated by their supervisors. Supplementary courses are not included in the total credit.

具体课程设置见附表。

For the specific curriculum, please refer to the Schedule.

## 七、科学研究及学位论文要求

### **VII. Requirements for Scientific Research and Degree Thesis**

进行科学研究与撰写学位论文，是对博士研究生进行科学研究训练、培养创新能力的主要途径，也是衡量研究生能否获得博士学位的重要依据之一。博士生在学期间一般要用 2 年的时间完成学位论文。博士学位论文是综合衡量博士生培养质量和学术水平的重要标志，博士生的资格考核、学位论文选题报告、论文中期检查、学位论文预答辩、论文答辩资格审查等，是博士生培养工作的重要环节，本学科的相关具体安排与要求如下：

Conducting scientific research and writing degree thesis is the main way to train doctoral students in scientific research and innovative ability, and it is also one of the important bases to measure whether a student can obtain a doctoral degree or not. Generally, doctoral students should take at least two years to complete their dissertation. Doctoral dissertation is the important supporting evidence which measures the quality of the cultivation outcomes and academic levels of the research. The doctoral qualification examination, thesis proposal, mid-term review, pre-defense of dissertation, etc., are important parts for the doctoral students training. Each discipline and major shall make specific arrangements and requirements in the training program:

#### **1. 文献综述与选题报告**

#### **1. Literature review and thesis proposal**

博士生应在了解本研究领域国内外的现状和发展动态的基础上确定博士学位论文题目，选题要体现学科领域的前沿性和先进性。选题报告时间由博士生导

师根据博士生工作进度情况确定，博士开题时间一般最迟不超过博士入学后第 3 学期，开题时间距离申请答辩日期不少于两学年。

Doctoral students should determine the title of doctoral dissertation on the basis of understanding the current situation and development trends in this research field at home and abroad, and the topic selection should reflect the frontier and advanced nature of the discipline field. The time for submitting the thesis proposal shall be determined by the supervisor according to doctoral students' progress. Generally, it shall be no later than the 3rd semester after admission and no less than two semesters before the application of thesis defense.

博士论文选题报告内容应包含文献综述、论文选题及其意义、主要研究内容、技术路线、预期成果及可能的创新点等。博士生在论文开题时需针对论文选题单独提交一份全面详细的文献综述报告（不少于 1 万字）。选题报告在二级学科范围内相对集中、公开地进行，并由以博士生导师为主体组成的考核小组进行评审。选题报告会应吸收有关导师和研究生参加，跨学科的论文选题应聘请相关学科的导师参加。若学位论文课题有重大变动，应重做选题报告，以保证课题的前沿性和创新性。

The thesis proposal of doctoral dissertation should include literature review, topic selection and its significance, main research content, technical route, expected results and possible innovation points, etc. At the beginning of the thesis proposal, doctoral students are required to submit a comprehensive and detailed literature review report (no less than 10,000 words) for the selected topic of the thesis. The thesis proposal is carried out in a relatively intensive and open manner within the scope of the second-level discipline, and is organized by the assessment team composed of doctoral supervisors as the main body. The thesis proposal meeting should be attended by relevant supervisors and postgraduates, and supervisors of relevant disciplines should be invited to participate in the meeting for topic selection of interdisciplinary theses. If there is a major change in the topic of the degree thesis, the thesis proposal should be carried out once again to ensure the frontier and innovation of the topic.

博士生进行论文开题报告之前，应在指导教师的指导下，在教育部认定的科技查新工作站进行论文开题查新工作，以保证博士学位论文选题的创新性。

Before carrying out the thesis proposal, doctoral students should, under the guidance of their supervisors, conduct the thesis novelty search work at the scientific and technological novelty search station recognized by the Ministry of Education, so as to ensure the innovation of doctoral dissertation topic.

## 2. 论文中期检查

### 2. Mid-term review of the thesis

学位论文实行中期检查制度。中期考核是检查研究生学位论文进展状况、帮助学生把握学位论文方向、提高学位论文质量的必要环节。学位论文中期检查应在开题一年后进行，考查小组应由 3-5 名教授（或具备副高职称的博导）组成，对研究生的综合能力、论文进展情况等进行全面考查。

A mid-term review system is adopted for degree thesis. The mid-term review is a necessary process to check the progress of doctoral dissertation, keep students in the right direction and improve the quality of their dissertation. The mid-term review shall be conducted one year after the report of the thesis proposal. The review team shall be composed of three to five professors (or doctoral supervisors with the deputy senior title), and examine the abilities of the doctoral students and the progress of the dissertation work comprehensively.

## 3. 科研成果要求

### 3. Requirements for scientific research achievements

(1) 博士生应参与省部级及以上科技项目或企业委托重大项目的课题研究，在申请学位论文答辩前应取得包括高水平论文、科研获奖、专利转化或成果鉴定等科研成果，科研成果认定的具体要求如下：

(1) Doctoral students shall participate in subject research of technological projects at provincial and ministerial levels or above or of major projects entrusted by enterprises, and obtain scientific research achievements such as publishing high-level academic papers, winning awards for scientific research, completing patent conversion or achievement identification before applying for thesis defense. The



specific requirements for the identification of scientific research achievements are as follows:

①博士学位论文的主要创新成果应在国内外重要学术刊物上公开发表。以华北电力大学为第一署名单位，博士生为第一作者（其导师必须是作者之一）或第二作者（其导师必须是第一作者），按下述要求公开发表反映学位论文工作成果的学术论文（网络见刊需导师签字），论文认定以发表时间为准。发表学术论文主要依据代表作（会议转期刊的、开源期刊、增刊和摘要检索除外），代表作必须为权威期刊，权威期刊请见本学科国内外权威期刊目录；

① The main innovative findings of doctoral dissertation shall be published in important academic journals at home and abroad. Doctoral students shall, in the name of the first author (the supervisor must be one of the authors) or the second author (the supervisor must be the first author), publish academic papers reflecting the achievements of their thesis work (the supervisor's signature is required for papers published online) according to the following requirements, with North China Electric Power University as the first author affiliation. The identification of the papers is subject to the time of publication. Academic papers shall be published mainly based on representative works (excluding journals of conference articles, open access journals, supplementary issues and journals included in abstract search). Representative works must be authoritative journals, which can be found in the catalogue of authoritative journals of the discipline at home and abroad.

②博士学位论文的主要创新成果应在国内外重要学术刊物上公开发表。以华北电力大学为第一署名单位，博士生为第一作者（其导师必须是作者之一）或第二作者（其导师必须是第一作者），按下述要求公开发表反映学位论文工作成果的学术论文（网络见刊需导师签字），论文认定以发表时间为准。论文发表到：《管理世界》、《南开管理评论》、《经济研究》、《教育研究》期刊之一；

②The main innovative findings of doctoral dissertation shall be published in important academic journals at home and abroad. Doctoral students shall, in the name

of the first author (the supervisor must be one of the authors) or the second author (the supervisor must be the first author), publish academic papers reflecting the achievements of their thesis work (the supervisor's signature is required for papers published online) according to the following requirements, with North China Electric Power University as the first author affiliation. The identification of the papers is subject to the time of publication. The papers shall be published at one of the journals including *Management World*, *Nankai Business Review*, *Economic Research Journal* and *Educational Research*.

③博士学位论文的主要创新成果应在国内外重要学术刊物上公开发表。以华北电力大学为第一署名单位，博士生为第一作者（其导师必须是作者之一）或第二作者（其导师必须是第一作者），按下述要求公开发表反映学位论文工作成果的学术论文（网络见刊需导师签字），论文认定以发表时间为准。论文发表到：EI 检索期刊（会议转期刊的、开源期刊、增刊和摘要检索除外）、北大核心期刊或者南大核心 C 刊及以上。

③The main innovative findings of doctoral dissertation shall be published in important academic journals at home and abroad. Doctoral students shall, in the name of the first author (the supervisor must be one of the authors) or the second author (the supervisor must be the first author), publish academic papers reflecting the achievements of their thesis work (the supervisor's signature is required for papers published online) according to the following requirements, with North China Electric Power University as the first author affiliation. The identification of the papers is subject to the time of publication. The papers shall be published at the journals being searched in EI (excluding journals of conference articles, open access journals, supplementary issues and journals included in abstract search), the core journals of Peking University or the core journals of Nanjing University, etc.

④博士生的学位论文工作成果（署名华北电力大学）获得省部级及以上奖励（以科研院认证目录为准，署名单位为华北电力大学，排名前五），或在人民日

报、光明日报等国家重要报刊发表智库类文章（国家重要报刊具体根据学院和本学科要求制定，署名单位为华北电力大学，排名前三）。

④ The doctoral student has won awards at provincial and ministerial level or above for the achievements of his/her thesis work (subject to the certification catalog of the scientific research institute, and the North China Electric Power University shall be one of the top 5 author affiliations), or publish think-tank articles in important national newspapers such as People's Daily and Guangming Daily (important national newspapers shall be specifically formulated according to the requirements of the school and the discipline, and the North China Electric Power University shall be one of the top 3 author affiliations).

⑤获得与博士论文代表性成果相关的国内外发明专利授权 1 项，发明专利要求第一署名单位为华北电力大学，学生排名第一或者学生排名第二（其导师排名第一），且累计成果转化收益到账额不低于 50 万元（以科研院核算为准）；或博士生作为主研人（排名前三）完成的科研项目获得省部级及以上科技成果鉴定。

⑤ Obtain one patent for invention at home and abroad related to the representative achievements of the doctoral dissertation (the first author affiliation is North China Electric Power University), and the student is the first author or the second author (the supervisor must be the first author). And the cumulative income from the transformation of the achievements is not less than RMB 500,000 (subject to the accounting of the Scientific Research Institute); or scientific research projects completed by the doctoral student as a lead researcher (top 3) have been certified as scientific and technological achievements at provincial and ministerial level or above.

⑥博士生作为主研人（排名前三）完成的科研成果获得国家领导人、省部级领导批示、成果第一完成单位是华北电力大学。

⑥ Scientific research achievements completed by the doctoral student as a lead researcher (top 3) have obtained approval and adoption of state leaders and provincial and ministerial leaders, with the North China Electric Power University being the first

contributor.

人文社科类项目鉴定是指由项目下达单位对项目组织的鉴定，其项目仅限于国家社科基金项目、教育部人文社科项目、北京市哲学社会科学规划项目、河北省社会科学基金项目等省部级及以上纵向社科类项目。

The appraisal of projects of humanities and social sciences refers to the appraisal of the project organization by the institute that issues the project, and the projects are limited to projects of the National Social Science Fund of China, projects of humanities and social sciences of the Ministry of Education, projects of the Beijing Planning Office of Philosophy and Social Sciences, projects of the Social Science Foundation of Hebei Province and other government sponsored social science projects at provincial and ministerial level or above.

(2) 科研成果数量要求与科研成果质量相结合，具体要求如下：

(2) The quantity requirements of scientific research achievements shall be combined with the quality of scientific research achievements. The specific requirements are as follows:

完成成果形式①一项，至少再完成①②④⑤⑥中一项及以上；或完成成果形式②一项，至少再完成①②③④⑤⑥中一项及以上；或完成成果形式④一项，至少再完成①②④⑤⑥中一项及以上；或完成成果形式⑤一项，至少再完成①②④⑤⑥中一项及以上；或完成成果形式⑥一项，至少再完成①②④⑤⑥中一项及以上。

The achievements meet the requirements of ①, and satisfy at least one item among ①②④⑤⑥; the results meet the requirements of ②, and satisfy at least one item among ①②③④⑤⑥; the results meet the requirements of ④, and satisfy at least one item among ①②④⑤⑥; the results meet the requirements of ⑤, and satisfy at least one item among ①②④⑤⑥; the results meet the requirements of ⑥, and satisfy at least one item among ①②④⑤⑥.

凡不符合上述要求的成果，在学位申请时一律不予考虑。

Any other achievements that do not meet the above requirements will not be considered in degree applications.

硕博连读学生在硕士期间取得的科研成果，按以上规定同等对待。

The scientific research achievements obtained by the MD-PhD students of continuous academic program during the master stage shall be treated equally in accordance with the above provisions.

#### **4. 学位论文要求**

#### **4. Degree thesis requirements**

博士生在毕业前应提交博士学位论文。博士学位论文是博士生在导师指导下独立完成的、系统完整的学术研究工作的总结。论文应体现出博士生在所在学科领域所做出的创造性学术成果，应能反映出博士生已经掌握了坚实宽广的基础理论和系统深入的专门知识，并具备了独立从事科研工作的能力。

Doctoral students shall submit their doctoral dissertations before graduation. The doctoral dissertation is a summary of the systematic and complete academic research work completed independently by a doctoral student under the guidance of his/her supervisor. The dissertation shall reflect the creative academic achievements made by the doctoral student in his/her discipline. It shall also reflect that the doctoral student has mastered solid and broad basic theories and systematic and in-depth knowledge of the major, and had the ability to engage in scientific research independently.

博士学位论文的撰写规范参照《华北电力大学博士学位论文撰写规范及范例》。

For the writing norms of doctoral dissertation, please refer to the *Norms and Examples for the Doctoral Dissertation Writing of North China Electric Power University*.

#### **5. 学位论文预答辩**

#### **5. Pre-defense of dissertation**

博士生在完成博士学位论文初稿后，经导师审核认为符合要求的，要进行博士学位论文的预答辩。预答辩的目的在于进一步修改、完善博士学位论文。学位论文预答辩通过者，方可申请论文送审的资格审查。

If the doctoral student completes the first draft of the doctoral dissertation and the first draft is deemed to meet the requirements after review of the supervisor, the doctoral student will make a pre-defense for its doctoral dissertation. The purpose of pre-defense is to further revise and improve the doctoral dissertation. The students who pass the pre-defense can apply for the formal defense of dissertation.

#### **6. 博士研究生申请论文送审的资格审查**

### **6. Qualification review of the submitted dissertation applied by doctoral students**

博士论文资格审查由指导教师或博士生指导小组负责进行。博士研究生申请论文送审的基本条件如下：

The doctoral dissertation qualification review is carried out by the supervisor or the steering group. Basic application conditions of doctoral students' dissertation submission are as below:

- (1)修完所规定的学分要求；
- (1) To meet the credit requirements;
- (2)通过博士资格考核；
- (2) To pass the doctoral qualification examination;
- (3)完成论文开题查新报告与论文选题报告；
- (3) To complete the reports on novelty search and the topic-selection;
- (4)完成论文中期检查；
- (4) To complete the mid-term review of dissertation;
- (5)满足学术论文发表与科研成果要求；
- (5) To meet the requirements of academic papers publication and research achievements;
- (6)通过学位论文的预答辩；
- (6) To pass the pre-defense of the dissertation;
- (7)完成学位论文的撰写并通过学位论文撰写规范审查。
- (7) To complete the dissertation and pass the review of the dissertation.

#### **7. 博士学位论文的评审与答辩**

### **7. Review and defense of doctoral dissertation**

博士生在通过论文送审的资格审查后即可进行学位论文的送审与答辩,具体要求按照《华北电力大学研究生学位论文评审和答辩的有关规定》、《华北电力大学学位授予工作实施细则》等相关规定执行。毕业生的答辩时间一般安排在6月,延期毕业和提前毕业的研究生的答辩时间一般安排在6月或12月。

Doctoral students can submit their degree theses for examination and make the theses defense after passing the qualification examination for their degree theses, which are required to be specifically carried out in accordance with the relevant provisions of the *Relevant Provisions on the Review and Defense of Master Dissertation of North China Electric Power University* and the *Detailed Rules for Degree Awarding of North China Electric Power University*. The defense time for graduates is generally arranged in June, while that for graduates of postponed graduation and early graduation is generally arranged in June or December.

附件 1:

Annex 1:

博士研究生课程设置表

Curriculum of Doctoral Students

课程性质 Category	课程属性 Attribute	课程名称 Course name	学时 Class hour	学分 Credit	考核方式 Assessment mode	开课学期 Semester of the course	备注 Remarks
学位课 (≥14 学分) Degree courses (≥14 credits)	公共课 Public courses	汉语综合(1) Chinese Comprehension (1)	64	4.0	考试 Exam	1	
		中国概况(英文) Introduction to China (English)	32	2.0	考试	1	
		汉语综合(2) Chinese Comprehension (2)	64	4.0	考试 Exam	2	
	基础理论课 Basic theoretical courses (≥2 学分) (≥2 credits)	现代数学基础与方法 Fundamentals and Methods of Modern Mathematics	32	2.0	考试 Exam	1	
		管理理论前沿 Frontiers of Management Theory	32	2.0	考试 Exam	1	
		管理方法论 Methodology of Management	32	2.0	考试 Exam	1	
	专业核心课 (≥2 学分) Specialized core courses (≥2 credits)	大数据预测与评价理论 Theory of Prediction and Evaluation for Big Data	32	2.0	考试 Exam	1	
		会计理论与方法研究 Study on Accounting Theory and Method	32	2.0	考试 Exam	1	
		现代人力资源管理理论与方法 Theory and Method of Modern Human Resource Management	32	2.0	考试 Exam	1	
		企业经营管理理论与方法 Theory and Method of Enterprise Operation and Management	32	2.0	考试 Exam	1	
		企业发展动力学 Enterprise Development Dynamics	32	2.0	考试 Exam	1	
		综合能源系统与服务 Integrated Energy System and Service	32	2.0	考试 Exam	1	
		高级能源经济学 Advanced Energy Economics	32	2.0	考试 Exam	1	
	必修环节 (6 学分) Required links (6 credits)	研究生科学道德与学术规范 Scientific Ethics and Academic Norms for Postgraduates			1.0	考查 Review of performance	
撰写项目申请书 Writing of an Application for Project				1.0	考查 Review of performance		
文献综述与开题报告 Literature Review and Thesis Proposal				2.0	考查 Review of performance		



		前沿讲座 Cutting-edge Lectures	8次 8 times	1.0	考查 Review of performance		
		博士论坛 Doctoral Forum	2次 2 times	1.0	考查 Review of performance		
任选课 Optional courses		综合能源系统（英文） Integrated Energy System (English)	16	1.0	考试 Exam	1	
		补修课程 Supplementary courses			考试 Exam		附注一 Note 1
		本学院或其他学院开设的相关基础或专业课程 Relevant basic or specialized courses offered by the school or other schools			考试 Exam		

附注一：对非本学科入学的博士生，应补修由导师指定的本学科主干硕士课程

Note 1: For the doctoral student who was not in this discipline when enrolled, he/she should make up for the main courses of this discipline in master stage designated by the supervisor.

附件 2:

Annex 2:

工商管理一级学科国内外权威学术期刊目录

**Catalogue of Domestic and Overseas Authoritative Academic Journals of the First-level Discipline of Business Management**

一、国外权威期刊

I. Overseas Authoritative Journals

被 SCI 检索的（中科院分区）一区、二区期刊，SSCI 检索的期刊，其中会议转期刊的、开源期刊、增刊和摘要检索除外。ESI, Scopus 高被引论文。（论文认定以发表时间为准，查阅 [www.letpub.com.cn](http://www.letpub.com.cn)）

Journals being searched in SCI zone 1 or zone 2 (zoning subject to the Chinese Academy of Sciences) and being searched in SSCI, excluding journals of conference articles, open access journals, supplementary issues and journals included in abstract search. Highly cited papers in ESI and Scopus. (The identification of the papers is subject to the time of publication. Please refer to [www.letpub.com.cn](http://www.letpub.com.cn).)

二、国内权威期刊

II. Domestic Authoritative Journals

第一部分（CSSCI 检索的来源期刊为依据）

Part I (based on journals sourced in CSSCI search)

序号 S/N	期刊名称 Journal name	主办（管）单位 Organizer
1.	管理世界 Management World	中华人民共和国国务院发展研究中心 Development Research Center of the State Council of the People's Republic of China
2.	南开管理评论 Nankai Business Review	南开大学商学院 Business School of Nankai University
3.	中国软科学 China Soft Science	中国软科学研究会 China Soft Science Research Association
4.	科研管理 Science Research Management	中国科学院科技政策与管理科学研究所 Institute of Science and Technology Policy and Management Science, Chinese Academy of Sciences
5.	科学学研究 Studies in Science of Science	中国科学学与科技政策研究会 China Society for Studies in Science of Science and Technology Policy
6.	公共管理学报 Journal of Public Management	哈尔滨工业大学管理学院 School of Management, Harbin Institute of Technology
7.	管理科学学报	国家自然科学基金委员会管理科学部

	Journal of Management Science in China	Management Science Department of the National Natural Science Foundation of China
8.	管理科学 Journal of Management Science	哈尔滨工业大学管理学院 School of Management, Harbin Institute of Technology
9.	科学学与科学技术管理 Science of Science and Management of S.&T.	中国科学学与科技政策研究会等 China Society for Studies in Science of Science and Technology Policy, etc.
10.	研究与发展管理 R&D Management	复旦大学 Fudan University
11.	外国经济与管理 Foreign Economies and Management	上海财经大学 Shanghai University of Finance and Economics
12.	管理工程学报 Journal of Industrial Engineering and Engineering Management	浙江大学 Zhejiang University
13.	管理学报 Chinese Journal of Management	华中科技大学 Huazhong University of Science and Technology
14.	中国行政管理 Chinese Public Administration	中国行政管理学会 Chinese Public Administration Society
15.	管理评论 Management Review	中国科学院研究生院 Graduate University of Chinese Academy of Sciences
16.	中国管理科学 Chinese Journal of Management Science	中国优选法统筹法与经济数学研究会 Chinese Society of Optimization, Overall Planning and Economic Mathematics
17.	软科学 Soft Science	四川省科技促进发展研究中心 Science & Technology for Development Research Center of Sichuan Province
18.	中国科技论坛 Forum on Science and Technology in China	中国科学技术发展战略研究院 Chinese Academy of Science and Technology for Development
19.	系统工程理论与实践 System Engineering Theory and Practice	中国系统工程学会 Systems Engineering Society of China
20.	经济管理 Business Management Journal	中国社会科学院工业经济研究所 Institute of Industrial Economics of CASS
21.	预测 Forecasting	合肥工业大学预测与发展研究所 Institute of Forecasting and Development, Hefei University of Technology
22.	中国工业经济 China Industrial Economics	中国社会科学院工业经济研究所 Institute of Industrial Economics of CASS
23.	经济研究 Economic Research Journal	中国社会科学院经济研究所 Institute of Economics, Chinese Academy of Social Sciences
24.	系统工程 Systems Engineering	湖南省系统工程与管理学会 Hunan Institute of System Engineering and Management
25.	教育研究 Educational Research	中国教育科学研究院 National Institute of Education Sciences
26.	中国科学基金 Bulletin of National Natural Science Foundation of China	国家自然科学基金委员会 National Natural Science Foundation of China
27.	财贸经济	中国社会科学院财经战略研究院

	Finance & Trade Economics	National Academy of Economic Strategy, CASS
28.	科技管理研究 Science and Technology Management Research	广东省科学学与科技管理研究会 Guangdong Association of Science of Science and Science and Technology Management Research
29.	系统管理学报 Journal of Systems & Management	上海交通大学 Shanghai Jiao Tong University
30.	世界经济 The Journal of World Economy	中国世界经济学会与世界经济与政治研究所 Institute of World Economics and Politics, Chinese Society of World Economy
31.	数量经济技术经济研究 The Journal of Quantitative & Technical Economics	数量经济与技术经济研究所 Institute of Quantitative & Technological Economics
32.	金融研究 Journal of Financial Research	中国金融学会 China Society for Finance and Banking
33.	会计研究 Accounting Research	中国会计学会 Accounting Society of China
34.	财经研究 Journal of Finance and Economics	上海财经大学 Shanghai University of Finance and Economics
35.	审计研究 Auditing Research	中国审计学会 China Audit Society
36.	金融经济研究 Financial Economics Research	广州金融学院 Guangdong University of Finance
37.	经济与管理研究 Research on Economics and Management	首都经济贸易大学 Capital University of Economics and Business
38.	统计研究 Statistical Research	中国统计学会、国家统计局统计科学研究所 National Statistical Society of China, Institute of Statistical Science of National Bureau of Statistics of China
39.	统计与决策 Statistics & Decision	湖北省统计局统计科学研究所 Institute of Statistical Science, Hubei Provincial Bureau of Statistics
40.	数理统计与管理 Journal of Applied Statistics and Management	中国现场统计研究会 Chinese Association for Applied Statistics

第二部分（CSCD 检索的来源期刊为依据）

Part II (based on journals sourced in CSCD search)

序号 S/N	期刊名称 Journal name	主办（管）单位 Organizer
1.	工程科学学报 Chinese Journal of Engineering	北京科技大学 University of Science and Technology Beijing
2.	工程设计学报 Chinese Journal of Engineering Design	浙江大学;中国机械工程学会 Zhejiang University; Chinese Mechanical Engineering Society
3.	工程数学学报 Chinese Journal of Engineering Mathematics	西安交通大学 Xi'an Jiaotong University
4.	工程研究--跨学科视野中的工 程 Journal of Engineering Studies	中国科学院大学 University of Chinese Academy of Sciences

5.	计算机仿真 Computer Simulation	中国航天科工集团公司第十七研究所 The 17th Research Institute of China Aerospace Science and Industry Corporation
6.	计算机工程 Computer Engineering	华东计算机技术研究所;上海计算机学会 East China Institute of Computer Technology; Shanghai Computer Society
7.	计算机应用 Journal of Computer Applications	中国科学院成都计算机应用研究所 Chengdu Institute of Computer Application, Chinese Academy of Sciences
8.	控制与决策 Control and Decision	东北大学 Northeastern University
9.	模式识别与人工智能 Pattern Recognition and Artificial Intelligence	中国自动化学会;国家智能计算机研究开发中心; 中国科学院合肥智能机械研究所 Chinese Association of Automation; National Research Center for Intelligent Computing Systems; Institute of Intelligent Machines, Chinese Academy of Sciences
10.	系统仿真学报 Journal of System Simulation	中国系统仿真学会; 航天科工集团 706 所 Chinese Association for System Simulation, Institute 706, the Second Academy of China Aerospace Science & Industry Corp.
11.	系统工程学报 Journal of Systems Engineering	中国系统工程学会 Systems Engineering Society of China
12.	系统科学与数学 Journal of Systems Science and Mathematical Sciences	中国科学院数学与系统科学研究院 The Academy of Mathematics and Systems Science, Chinese Academy of Sciences
13.	运筹学学报 Operations Research Transactions	中国运筹学会 Operations Research Society of China
14.	运筹与管理 Operations Research and Management Science	中国运筹学会 Operations Research Society of China
15.	智能系统学报 CAAI Transactions on Intelligent Systems	中国人工智能学会;哈尔滨工程大学 Chinese Association for Artificial Intelligence; Harbin Engineering University
16.	中国电机工程学报 Proceedings of the Chinese Society for Electrical Engineering	中国电机工程学会 Chinese Society for Electrical Engineering
17.	电网技术 Power System Technology	中国电力科学研究院 China Electric Power Research Institute
18.	中国科学 Science China	中国科学院和国家自然科学基金委员会 Chinese Academy of Sciences and National Natural Science Foundation of China
19.	改革 Reform	重庆社会科学院 Chongqing Academy of Social Sciences
20.	工业工程与管理 Industrial Engineering and Management	上海交通大学 Shanghai Jiao Tong University

特别说明：以上权威期刊不含增刊。

**Note: The supplements of the above authoritative journals are excluded.**

三、被我校科研院认定的省部级科技成果奖，每项可以作为 1 篇权威期刊对

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III. Each of the science and technology achievement awards at provincial and ministerial levels recognized by the Scientific Research Institute of our university can be rated as 1 authoritative journal.