

Education Plan for Doctor in Management Science & Engineering

(Discipline Code:1201,Award Doctor Degree of Management)

I Objectives

The major brings up high-level professionals who have both ability and political integrity, engaging in the research and practice of Management Science and Engineering. The specific requirements are as follows. Master the basic theory of Marxism, set up scientific world view, insist on the party's basic line, love the motherland; observe law and discipline, have good conduct; be honest and respectable, work together, have good ethics of scientific research and professional spirit, promote exploration and creativity; master the solid basic theory and have systematic professional knowledge of this subject, understand the academic foreground of the subject; demonstrate ability with pursuing research of Management Science and Engineering independently and using professional knowledge to solve practical problems; have the capacity of statistical analysis, case analysis, countermeasure research and combing quantitative analysis and qualitative analysis; produce creative research results in the field of Management Science and Engineering; master two foreign languages, read foreign papers of this major proficiently, use a foreign language to write academic papers proficiently, and have an excellent listening-speaking skill of foreign language and the ability of international academic communication; make a good use of computer and use the software of statistical analysis and simulation decision skillfully; have healthy physique and good mental quality.

II Disciplinary Research Areas

- 1 Innovation and Innovation Management
- 2 Strategic Management and Risk Management
- 3 Engineering and Project Management
- 4 Information System and Decision Sciences
- 5 Financial Engineering and Management
- 6 Public Security and Emergency Management

III Educational System and Years of Study

The doctoral candidate's schooling graduating from master degree is 3 years, and its school duration is generally 3 to 4 years, which is no more than 6 years. Credit system is executed. The doctoral candidate graduating from master degree should finish the required course credits that must be at least a total of 16 credits. Course total credits must be at least a total of 12 credits. The degree course credits must be at least a total of 10 credits. The compulsory part must be at least a total of 4 credits.

The duration of doctoral candidate after graduating from bachelor degree is 5 years, and its school year is generally 5 to 6 years, which is no more than 7 years. The doctoral candidate graduating from bachelor degree should finish at least a total of 38 credits. Course total credits must be at least a total of 34 credits. The degree course credits must be at least a total of 26 credits. The compulsory part must be at least a total of 4 credits.

IV Curriculum System and Credit Requirements

Course Category	Course No.	Course Name	Hour	Credit	Semester	School	Remark
Degree course	003281001	First Foreign Language(Chinese)	108	6	12	School of International Education	Compulsory

Course Category	Course No.	Course Name	Hour	Credit	Semester	School	Remark
	003281002	Introduction to China	54	3	1	School of International Education	
	00311010	Advanced mathematical modelling	36	2	2	Management School	
	00311002	Frontiers in management science & engineering	54	3	2	Management School	
Optional Courses	01813001-004	The second foreign language (French, Japanese, German, Russian)	72	4	2	Foreign Language School	Select at least 2 courses
	02112101	Selected Reading in Classical Works of Marxism	18	1	1	Marxism School	
	00312002	Theories and methods of flexibility of corporate finance	36	2	2	Management School	
	00312003	Virtual enterprise and strategic alliance	36	2	2	Management School	
	00312004	Theories and methods of modern enterprise system	36	2	2	Management School	
	00312005	Theories and methods of venture capital	36	2	2	Management School	
	00312006	Theories of corporate competitive advantage and competitiveness	36	2	2	Management School	
	00312007	Cloud computation and big data	36	2	2	Management School	
	00312008	Modern artificial intelligence	36	2	2	Management School	
	00312009	Product innovation management	36	2	2	Management School	

Course Category	Course No.	Course Name	Hour	Credit	Semester	School	Remark
	00312010	Project investment and management	36	2	2	Management School	
	00312011	Principles in advanced economics	36	2	2	Management School	
	00312012	Financial risk management	36	2	2	Management School	
	00311101	Theories and methods of emergency management	36	2	1	Management School	
	00312014	Education management and policies	36	2	2	Higher Education Research School	
	00312022	Corporate value management and financial decision	36	2	2	Management School	
Compulsory part	00314001	Management School's Dr. Practice		2	4	Management School	
	00314002	Dr. topic report and mid-term examination		1	3	Management School	
	00314003	Management School, Dr. Academic Activities	10	1	3	Management School	

Note: If the course of second foreign language is not taken in the postgraduate stage, it must be taken in the Dr. stage.

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V Compulsory Courses

1. Practical part

Practice part can be taken the form of “teaching assistant, research assistant, management assistant and so on. Participants are required to write a practical report. At least 6 units (enterprises, financial institutions, government departments, etc.) should be investigated during the period of their study. Students should carry out professional investigation in the field of the selected topic and write the survey into the Dr. topic report. Students should actively participate in the activities of the enterprise diagnosis, providing regional development plan, consulting industry development and so on, which are organized by their tutors. Students are required to complete longitudinal project application about nature (social) science foundation which is a province (city) level or above. And the student needs 30 minutes to report PPT. After checking and reviewing by teachers(groups), the student can get 2 credits if qualified.

On-the-job Ph.D.. students are exempt from the practice parts which are not included in the credits, and the credits must be filled by elective courses.

2. Dr. topic report and mid-term examination

After entering the school, the doctoral candidates should clear their research area in teachers' guidance, consult the related literature at home and abroad, carry out extensive studies, and raise topic selection report. They can ensure the topic after checking. The doctoral candidate can get 1 compulsory credit if qualified.

The doctoral candidate should take part in mid-term examination. The doctoral candidate can know the specific requirements in handbook "Measures for the management of graduate student mid-term examination and the topic".

3. Academic activity

In order to encourage Ph.D. students to care about and get a good knowledge of the development tendency of the frontier disciplines at home and abroad, broaden their horizons and inspire creativity, the school demands that each doctoral candidate should do academic report publicly at least 5 times, attend academic report meetings at least 10 times, and write experience of more than 500 words. After checking and reviewing by teachers (groups), the doctoral candidate can get 1 compulsory credit if qualified.

VI Scientific Research and Dissertation

The cultivation of scientific research ability runs through the course of graduate studies. After ensuring the title, the doctoral candidate should summarize the thesis by stages and write periodic reports.

Application for doctoral degree must meet the relevant requirements in the graduate handbook "rules of the doctoral candidate to apply for degree and publishing academic dissertation" Ph.D.. Thesis must pass TMLC2, and achieve the relevant requirement of school academic degree evaluation committee. Then the doctoral candidate can have a reply.

VII Cultivation Mode and Method

Doctoral training takes measures of tutor system or teacher-based steering group. The training should be flexible and take more heuristics, discussion way of teaching so that it can give full play to the leading role of the instructor.

VIII Others

1. To examine the effects of instruction, ensure the quality, the items listed in the program must have an assessment. Assessment methods and performance assessment methods need to be clearly stated in the course syllabus.

2. Ph.D.. candidates who were enrolled ahead of schedule shall be trained as students starting from graduates under the program.

3. Before thesis proposal, Ph.D.. candidates are required to pass all the degree courses and get the credits before thesis proposal. Students are allowed to take some of the other elective courses according to the dissertation after thesis proposal. All the courses shall be completed before the application of dissertation defense.

4. Each discipline shall make specific regulations and requirements in the amount of literature to be read for the students during the study period. Science and Engineering candidates should review more than 80 pieces of literature at home and abroad (100 for candidates of other disciplines), in which foreign literature shall be no less than one third.

5. Ph.D.. candidates shall report their own learning and research work to the supervisor at least once a month at the course learning stage, and at least twice a month during the paper sessions, which shall be institutionalized and clearly clarified in the programs.

6. This program will enact from 2016.