DEPARTMENT OF INDUSTRIAL AND INFORMATION MANAGEMENT PH.D PROGRAM

To get the degree students need to meet all requirements below:

• **Prerequisite requirement:** at least 5 courses

Students will be required to pass the prerequisite courses during their Master and undergraduate period, or students have to take the courses provided in our school to fulfill the prerequisite requirement.

Management (at least 2 courses)	Quantitative Methods (at least 2 courses)	Information Technology (at least 1 course)
 Human Resource Management Production and Operation Management Marketing Management Quality Management Financial Management Management Management Management Management Management Management 	 Statistics Operation Research Probability Linear Algebra 	 Introduction of Computer Science Computer Programming and Application

Note:

- (1) The prerequisite courses can be taken from other departments.
- (2) The prerequisite courses do not count as part of the credits required for graduation.
- (3) The prerequisite course may be waived for that students have teaching experience of the related courses, or students who have taken belong to the undergraduate or master program for more than 1 semester (3 credits) with an average mark of 60 or above.
- (4) The course waiver application needs to be submitted before Oct. 31st in the first semester.
- (5) Prerequisite requirements for the doctoral program should be fulfilled in four years after admission. Students who fail to fulfill these requirements will be dismissed from the University.

Minimum credits required for graduation: 31 credits

Including core courses: 12 credit hours; elective courses: 15 credit hours; Seminar:4 credit hours.

Core courses: At least four courses from the specialized courses required.

	Research Methods		Management
	(at least two courses)		(at least two courses)
1.	Mathematic	1.	Leadership
	Programming (full English	2.	Strategic Management
	course)	3.	Global Quality Management
2.	System Simulation	4.	Project Management
3.	Scheduling Theory (full	5.	Supply Chain Management(full
	English course)		English course)
4.	Business Research	6.	Strategic Game Theory (full
	Methods (full English course)		English course)
5.	Empirical Model-Building	7.	Optimization Models and
	Methods (full English course)		Application (full English course)
6.	Advanced Production and	8.	Sustainable Operations
	Operations Research		Management (full English
7.	Optimization in Network		course)
	Management (full English		
	course)		
8.	Nonlinear Programming (full		
	English course)		
9.	Dynamic Programming (full		
	English course)		

> **Seminars for 4 semesters:** 4 credit hours

For PH.D. students, you have to take seminars 1, 2, 3, and 4: 1 credit hour each; And students are not allowed to take Seminars from other departments.

Elective courses: 15 credit hours

For elective courses, students can take courses inside or outside the department. If students take more than four courses from the core course list, that will automatically become the elective courses. Or students can take the courses from other departments as the elective course, but each semester at most two courses (6 credit hours), and at most three courses (9 credit hours) can be admitted in entire doctoral program.

English Proficiency Verification Prior to Graduation

For the doctoral program, passing one of the English proficiency tests should be fulfilled.

- First stage of high-intermediate level of GEPT
- o CBT-TOEFL 173/ Paper-based TOEFL 500
- TOEIC 590
- o IELTS 4.5

Qualified exam for the doctoral program:

 Publishing one full-text paper on an international journal or conference with Scopus index.

Other Requirements for the doctoral program :

Passing the qualified exam

Proposal

The proposal should be held one semester before the thesis dissertation. Students should invite the Doctoral Thesis Committee and all of the professors in the department to attend the presentation.

> **Journal paper publication requirement**: (one of the following options)

- Publishing at least two papers on SCI- or SSCI-ranked journals that have the name of our department on them. For students enrolling in the seventh year, publish one SCI- or SSCI-ranked journal paper and one full-text paper on an international journal or conference with Scopus index.
- o Publishing one paper on **high-quality journals**. (see Table 1)

Note:

The rules for the above journal paper publication

- (1) The published papers should be the research that are studied, submitted and published after enrolled in the doctoral program of our department. The thesis advisor should be named on the paper. Also, at least one paper should be related to the doctoral thesis.
- (2) The corresponding author of the published papers should be the student or his/her advisor.
- (3) If the student is not the corresponding author, he/she should be the first priority author except for the full-time teacher of our department.

- (4) All of the co-authors of the published papers should be full-time teacher or students in our department or an international scholar. If some of the co-authors had graduated from our department, the study period of the student and the co-authors should be overlapping.
- (5) If there is more than one student listed on the published journal paper, it could be applied for only one student's graduation requirement.
- (6) If the thesis advisor had retired or registered from our department, he/she could still be named on the paper.

Dissertation

Students can apply for thesis dissertation when the above requirements of the published papers were fulfilled and also got the approval of his/her thesis advisor.

Table 1: High-quality Journals List

No	Industrial and Information Management	
1	MANAGEMENT SCIENCE	
2	MATHEMATICAL PROGRAMMING	
3	MATHEMATICS OF OPERATIONS RESEARCH	
4	OPERATIONS RESEARCH	
5	M&SOM-MANUFACTURING & SERVICE OPERATIONS MANAGEMENT	
6	JOURNAL OF OPERATIONS MANAGEMENT	
7	PRODUCTION AND OPERATIONS MANAGEMENT	
8	TRANSPORTATION SCIENCE	
9	TRANSPORTATION RESEARCH PART B-METHODOLOGICAL	
10	IIE TRANSACTIONS	
11	NAVAL RESEARCH LOGISTICS	
12	INTERFACES	
No	Information Management	
1	MIS QUARTERLY	
2	INFORMATION SYSTEM RESEARCH	
3	COMMUNICATIONS OF THE ACM	
4	JOURNAL OF MANAGEMENT INFORMATION SYSTEMS	
5	DECISION SUPPORT SYSTEMS	
6	INFORMATION AND MANAGEMENT	
7	EUROPEAN JOURNAL OF INFORMATION SYSTEMS	
7 8	EUROPEAN JOURNAL OF INFORMATION SYSTEMS INTERNATIONAL JOURNAL OF ELECTRONIC COMMERCE	
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8	INTERNATIONAL JOURNAL OF ELECTRONIC COMMERCE	