＜本系博士班修業規章相關規定供參＞
＜**The Ph.D. Program Regulations**＞

115.05.13

1. 本系博士班研究領域包括（但不限於）「組織理論/行為」、「策略管理」、「行銷管理」、「財務金融」、「營運管理」、「人力資源管理」、「資訊管理」、「科技管理」以及「決策科學」等九組，並鼓勵跨領域之研究。

   The research fields for the program include (but are not limited to) 'Organization Theories and Organizational Behavior', 'Marketing Management', 'Strategic Management', 'Financial Management', 'Operations Management', 'Human Resource Management', 'Information Management', 'Technology Management', and 'Decision Science'. Interdisciplinary research is strongly encouraged.

2. 博士生先修課程包括「經濟學」、「會計學」、「統計學」及「管理學」等四科。方法類選修課程須任選三科；專業選修課程則由本修業規章第5點所列九組領域中任選其中六領域各一門課程；主修領域相關課程則須選修至少三門。以上皆須於申請博士學位考試前修畢且及格。先修或選修課程若曾於入學前修習通過，可申請免修，但不得抵免。

   Students are required to complete three semesters of the 'Seminar on Thesis' course. The prerequisites include 'Economics', 'Accounting', 'Statistics', and 'Introduction to Management'. Students are required to complete three fundamental courses on research methodology. Students are required to complete six elective courses for the nine specified fields mentioned above (one course for one field), and at least three concentration courses related to her/his major research field. These courses include those offered by the institute as well as those offered by the IMBA program of the College of Management. Students who have completed prerequisites or electives prior to enrolment may apply for waiver.

國立陽明交通大學管理科學系博士班一般管理組課程體系表

（109學年度起適用）

一、先修課程：經濟學、會計學、統計學、管理學

二、研討類課程：論文研討（博士班）、個別研究

三、專業課程：

領域	基礎課程	進階課程
策略管理	策略管理、(GMBA)策略管理	產業經濟學、商務談判、策略創新與系統動能：理論與方法、創新與技術移轉、產業競爭分析與策略、(GMBA)全球企業管理與策略、(GMBA)企業成長與併購、國際企業管理、知識經濟時代的策略思維、領導與策略專題、國際企業論文研討
組織理論/行為	組織理論、組織行為	組織變革、願景策略與領導專題、組織行為專題:職場健康與安全、組織行為研討、組織設計與管理、企業調查與研究方法、領導與職場健康、組織研究方法研討
人力資源管理	人力資源管理	人員甄選專題、績效評估(博士班)
行銷管理	行銷管理	行銷研究、消費者行為、服務業管理、零售學、國際行銷學、休閒產業行銷、行銷研究專題、消費者決策科學、整合行銷溝通、科技行銷、行銷專題、行銷策略規劃與分析、善因行銷、永續消費與全球永續發展、行為實驗設計、行銷理論、企業社會責任與行銷
財務金融	財務管理	財務報表分析、中國經濟研究、中級會計學(一)、中級會計學(二)、科技金融產業創新與轉型策略、(GMBA)財務會計、(GMBA)企業會計、計量經濟學(博士班)、(GMBA)企業成長與併購、(GMBA)財務計量經濟學、(GMBA)公司財務會計研究、信用風險與應用、財務會計與信用風險論文研討(一)、財務會計與信用風險論文研討(二) 、企業分析與評價、企業合併與收購、公司財務實證分析（一）、公司財務實證分析（二）、財務會計實證分析（一）、財務會計實證分析（二）、財金研究

		方法與論文寫作（二）、企業財務管理專題研討（一）、企業財務管理專題研討(二)、智慧審計新時代-數位浪潮、永續趨勢與 AI 的大數據應用
資訊管理	資訊管理	Python 程式設計與基礎資料結構、人工智慧、商業數據分析、深度學習、AI 實務、商業智慧分析、資訊安全、資料庫概念與實務應用、深度學習於醫學影像分析、資料探勘
營運管理	營運管理	作業研究、生產與作業管理、ESG 經營管理實務專題、數值最佳化與應用、智慧生產與供應鏈管理
科技管理	創業管理:新創事業開發、創新與技術移轉	願景領導與創業創新、網路策略:方法與應用、科技產業分析、科技金融產業創新與轉型策略、 (GMBA)興業家精神與全球企業競賽、科技管理文獻評析、(GMBA)新創事業規劃、(GMBA)全球科技策略、(GMBA)全球企業管理與策略、知識經濟時代的策略思維、科技創新創業管理、智能產業與科技創新、科技管理與科技政策議題、創新研發管理與創業實務、創業與籌資、區塊鏈策略與數位治理
決策科學	決策科學	作業管理、服務業管理、線性結構模式、賽局論、績效評估、階層線性模型、網路策略:方法與應用、組織設計與管理、全球企業管理、線性規劃、物流作業規劃模式、供應鏈管理

方法類	研究方法、計量經濟學、作業研究、統計方法與資料分析、多變量分析、線性結構模式、階層線性模型、統計研究方法、成長模型、行銷研究專題、社會科學研究方法、實驗設計、商業智慧分析、機器學習商業應用、人工智慧、資料科學、高等作業研究、萬用啟發式演算法、傳播研究方法:量化取向、最佳化導論、信用風險實證分析(一)、信用風險實證分析(二)、財金研究方法與論文寫作(一)、元啟發式演算法、資料探勘

【備註】若欲修課程未列入上述領域所列課程，請於**修課前**另填申請表由本系相關領域老師及博委會認定之。

Curriculum table
(Applies to 2020 enrolled students)

1. prerequisites：Economics、Accounting、Statistics、Introduction to Management
2. seminars：Seminar on Thesis、independent study
3. elective courses：

fields	fundamental courses	advance courses
Strategic Management	Strategic Management 、(GMBA)Strategic Management	Industrial Economics、Business Negotiation、Strategic Innovation and System Dynamic Momentum、Innovation and Technology Transfer、Industry Competition Analysis and Strategy、(GMBA) Global Business Management and Strategy、(GMBA) Enterprise growth and M&A、International Business Management、Strategic Thinking in the Era of Knowledge Economy、Seminar on Leadership and Strategy、Research Seminar on International Business
Organization Theories and Organizational Behavior	Organization Theory、Organizational Behavior	Organizational Change 、Seminar on Vision, Strategy and Leadership 、Organizational Behavior Seminar: Occupational Health and Safety、Seminar on Organizational Behavior 、Organization Design and Management、Business Survey and Research Method、Leadership and Occupational Health 、Seminar on Organizational Research Methods
Human Resource Management	Human Resource Management	Special Topics in Personnel Selection , Performance Assessment (PHD)
Marketing Management	Marketing Theory	Marketing Research、Consumer Behavior、Services Management、Retailing、International Marketing、Leisure Industry Marketing、Special Topics in Marketing Research、Consumer Decision Science、Integrated marketing communication、Technology Marketing、Marketing Research Seminar 、Marketing strategy planning and analysis、Cause-Related Marketing、Sustainable Consumption And

		Global Sustainable Development、Experimental Design in Behavioral Studies、Marketing Theory、Corporate Social Responsibility and Marketing
Financial Management	Financial Management	Financial Statement Analysis、China Economy Studies、Intermediate Accounting(I)、Intermediate Accounting(II)、Fin Tech Industrial Innovation and Transformation Strategy,(GMBA) Financial Accounting, (GMBA) Enterprise Accounting, Econometrics, (GMBA)Enterprise growth and M&A, (GMBA) Financial Econometrics, (GMBA) Corporate Financial Accounting Research, Credit Risk and Its Application、Research Seminar on Financial Accounting and Credit Risk (I)、Research Seminar on Financial Accounting and Credit Risk (II)、Business Analysis and Valuation、Mergers and Acquisitions、Empirical Analyses on Corporate Finance (I)、Empirical Analyses on Corporate Finance (II)、Empirical Analyses on Financial Accounting (I)、Empirical Analyses on Financial Accounting (II)、Financial Research Methods and Thesis Writing (II)、Seminar on Corporate Financial Management (I)、Seminar on Corporate Financial Management (II)、The New Age of Intelligent Audit- Digital Wave, Sustainable Trends and Big Data Application of AI
Information Management	Information Management	Python Programming and Basic Data Structures、Artificial Intelligence in Business、Big Data Analytics for Business Intelligence、Introduction to Deep Learning, Foundations of AI: From Basics to Practice、Python for Data Analysis、Information Security、Database Concept and Practice、Deep learning in medical image analysis、Data Mining
Operations Management	Operation Management	Operation Research , Production and Operation Management, ESG Business and Management Practical Topics、Numerical Optimization with applications、Intelligent Production

		Planning and Supply Chains Management
Technology Management	Entrepreneurship: New Venture Creation 、 Innovation and Technology Transfer	Visionary Leadership and Entrepreneurship Innovation、Network Strategies: Method and Applications、Science & Technology Industry Analysis 、 Fin Tech, Industrial Innovation and Transformation Strategy 、 (GMBA) Entrepreneurship and Global Business Competition 、 Literature Analysis on Technology Management 、 (GMBA) Business Development for Start-ups, (GMBA) Global Technology Strategy, (GMBA) Global Business Management and Strategy、Strategic Thinking in the Era of Knowledge Economy 、 Technological Innovation and Entrepreneurship Management 、 The Intelligent Industry and Technology Innovation 、 Technology Management and Issus of Technology Policy 、 Management of Research and Development and the Practice of Entrepreneurship, Entrepreneurship and New Venture Funding 、 BlockChain Strategy and Digital Governance
Decision Science	Decision Science	Operation Management 、 Services Management 、 Structural Equation Modeling、Game Theory、Performance Assessment 、 Hierarchical Linear Models 、 Network Strategies: Method and Applications, Organization Design and Management, Global Business Management 、 Linear Programming Planning Models for Logistics Operations, Global Supply Chain Management

research methodology	Research Methods、Econometrics、Operations Research、Statistical Methods and Data Analysis、Multivariate Analysis、Structural Equation Modeling、Hierarchical Linear Models、Statistical Research Methods, Growth Modeling, (GMBA), Seminar on Marketing Research、Research Methodology for Social Science、Experimental Design 、Data Science for Business、Machine Learning for Business、Artificial Intelligence in Business、Data Science, Advanced Operations Research、Metaheuristic Algorithms、

	Communication Research Methods:Quantitative Approach、Optimization Methods and Applications、Empirical Analyses on Credit Risk (I)、Empirical Analyses on Credit Risk (II)、Financial Research Methods and Thesis Writing (I)、Meta-Heuristic Algorithm、Data Mining

*In case of any inconsistency between the English version and the Chinese version, the Chinese version shall prevail.
* If the course you want to take is not included in the courses listed, please fill in an application form before taking the course and be recognized by the teacher in the relevant field of the department and the PhD committee.