**元智大學　資訊管理學系博士班**

**資訊科技組　必修科目表**

**（104學年度入學新生適用）**

104.04.22 一○三學年度第五次教務會議通過

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  學年學期 科目 | 第一學年 | 第二學年 | 第三學年 | 第四學年 |
| 上學期 | 下學期 | 上學期 | 下學期 | 上學期 | 下學期 | 上學期 | 下學期 |
| 必修科目（13） | 高等資管專題研討一( Seminar in Advanced Information ManagementⅠ)IM901(1) | 高等資管專題研討二(Seminar in Advanced Information ManagementⅡ)IM902(1) | 高等資管專題研討三(Seminar in Advanced Information ManagementⅢ)IM903(1) | 高等資管專題研討四(Seminar in Advanced Information ManagementⅣ)IM904(1) |  |  |  |  |
| 計量決策專題（Seminar on Quantitative Decision Making）IM910(3) | 演算法(Algorithms)IM911(3) |  |  |  |  |  |  |
|  | 離散數學(Discrete Mathematics)IM912(3) |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| 學期學分小計 | 4 | 7 | 1 | 1 |  |  |  |  |
| 備註 | 1.畢業最低總學分數為34學分，另加博士論文一篇。2.下列三門科目中至少要選修二門課：計量決策專題、演算法、離散數學3.其他之詳細規定，請參照本系「博士班修業規定」之相關規定辦理。 |

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**元智大學　資訊管理學系博士班**

**選修科目表**

**（104學年度入學新生適用）**

104.04.22 一○三學年度第五次教務會議通過

| 類別/組別 | 課號 | 中文課名 | 英文課名 | 學分數 |
| --- | --- | --- | --- | --- |
| 管理組 | IM514 | 企業研究方法 | Business Research Methodology | 3 |
| IM516 | 網際網路行銷學 | Internet Marketing | 3 |
| IM522 | 金融決策支援系統 | Financial Decision Support Systems | 3 |
| IM526 | 作業流程管理專題研討 | Topics in Work Flow Management | 3 |
| IM527 | 電子商務專題研討 | Topics in Electronic Commerce | 3 |
| IM533 | 人力資源管理 | Human Resource Management | 3 |
| IM539 | 醫療資訊系統 | Health Information Systems | 3 |
| IM540 | 組織理論與管理 | Organization Theory and Management | 3 |
| IM546 | 物流資訊系統 | Information Systems for Supply Chain Management | 3 |
| IM547 | 資訊技術管理專題 | Seminar on Information Technology and Management | 3 |
| IM548 | 系統評估與分析 | System Evaluation and Analysis | 3 |
| IM551 | 供應鏈管理 | Supply Chain Management | 3 |
| IM553 | 商業智慧 | Business Intelligence | 3 |
| IM554 | 財務管理 | Financial Management  | 3 |
| IM559 | 投資管理 | Investment Management | 3 |
| IM561 | 顧客關係管理 | Customer Relationship Management | 3 |
| IM564 | 電子化企業管理 | E-Business Management | 3 |
| IM566 | 知識管理 | Knowledge Management | 3 |
| IM572 | 專案管理 | MIS Professional Study | 3 |
| IM574 | 電子化企業專題研討 | Topics in E-Business | 3 |
| IM576 | 軟體工程 | Software Engineering | 3 |
| IM579 | 企業倫理 | Business Ethics | 3 |
| IM587 | 醫療資訊專題 | Special Topics on Medical Informatics | 3 |
| IM569 | 行銷管理 | Marketing Management | 3 |
| IM580 | 危機管理 | Crisis Management | 3 |
| IM588 | 創業管理實務 | Entrepreneurship | 3 |
| IM604 | 策略性資訊系統 | Strategic Information Systems | 3 |
| IM613 | 專案管理專題研討 | Seminar on Project Management | 3 |
| IM616 | 生理訊號之臨床應用 | Clinical Application of Biophysioloical signals | 3 |
| 資訊科技組 | IM504 | 智慧型管理系統 | Intelligent Management Systems | 3 |
| IM507 | 決策支援系統 | Decision Support Systems | 3 |
| IM523 | 電腦模擬 | Computer Simulation–System Modeling and Analysis | 3 |
| IM525 | 計算與機率式學習及其應用 | Computational Learning , Probabilistic Learning and Their Applications | 3 |
| IM528 | 網路應用與管理 | Network Application and Management | 3 |
| IM529 | 物件導向技術 | Object-Oriented Technology | 3 |
| IM530 | 類神經網路及其應用 | Artificial Neural Networks and Their Applications | 3 |
| IM531 | 問題解決與決策 | Problem Solving and Decision Making | 3 |
| IM532 | 知識探勘與資料剖析 | Knowledge Discovery and Data Mining  | 3 |
| IM534 | 基因演算法則 | Genetic Algorithms | 3 |
| IM535 | 計算式智慧專題 | Topics in Computational Intelligence  | 3 |
| IM536 | 高等演算法 | Advanced Computer Algorithms | 3 |
| IM541 | 物件關聯式資料庫管理系統 | Object-Oriented Relational Database Systems  | 3 |
| IM542 | 模糊系統理論及應用 | Fuzzy Systems Theory and applications | 3 |
| IM545 | 資料倉儲 | Data Warehousing | 3 |
| IM549 | 案例庫推理 | Case-Based Reasoning | 3 |
| IM552 | 資訊網路專題 | Topics in Computer Networks | 3 |
| IM555 | 多變量分析 | Multivariate Analysis | 3 |
| IM556 | 模糊資料庫 | Fuzzy Database | 3 |
| IM557 | 組合最佳化 | Combinatorial Optimization | 3 |
| IM558 | 生物資訊專題 | Bio-informatics | 3 |
| IM562 | 基因規劃 | Genetic Programming | 3 |
| IM563 | 平行與分散式系統 | Parallel and Distributed Systems | 3 |
| IM570 | 生產與作業分析 | Production and Operations Analysis | 3 |
| IM573 | 數位影像技術 | Digital Image Processing | 3 |
| IM577 | 多媒體技術與應用 | Multimedia Technology and Application | 3 |
| IM578 | 全球資訊網技術 | Web Technologies | 3 |
| IM585 | 資訊科技專題 | Seminar on Information Technology | 3 |
| IM586 | 模糊動態系統 | Fuzzy Dynamical Systems | 3 |
| IM589 | 啓發式最佳化 | Heuristic Optimization | 3 |
| IM590 | 分散式資料庫系統 | Distributed Database Systems | 3 |
| IM603 | 管理決策模式與分析 | Modeling and Analysis for Managerial Decision Making | 3 |
| IM614 | 資訊擷取 | Information Retrieval | 3 |
| IM615 | 矩陣分析 | Matrix Analysis | 3 |
| IM617 | 雲端計算原理 | The Principle of Cloud Computing | 3 |
| IM618 | 雲端醫療服務與數位學習產業學堂專題講座 | Seminar for Cloud Computing | 1 |
| IM619 | 多準則決策與分析 | Multiple Criteria Decision Making and Analysis | 3 |
| IM620 | 資訊安全 | Information Security | 3 |
| IM621 | 決策理論 | Decision Theory | 3 |
| IM622 | 決策分析 | Decision Analysis | 3 |
|  | 地理資訊系統 | Geographic Information Systems | 3 |
| 創新學程 | IM811 | 社會變遷與創新 | Social Transformation and Creative Destruction | 3 |
| IM812 | 發展經濟學 | Economics of Development | 3 |
| IM813 | 社會企業與領導 | Social Entrepreneurs and Leadership | 3 |
| IM814 | 非營利與社會企業市場策略 | Marketing Strategies for Nonprofits and Social Enterprises | 3 |
| IM815 | 微型金融與發展 | Microfinance and Development | 3 |
| IM816 | 社會創新影響：醫療與社會服務專題 | Impact of Social Innovation : Health, Care and Social Service | 3 |
| IM817 | 社會創新影響：環境生態專題 | Impact of Social Innovation : Environment and Ecology | 3 |
| IM818 | 全球化與產業發展 | Globalization and Industry Development | 3 |
| IM819 | 管理經濟學 | Managerial Economics | 3 |
| IM831 | 資訊倫理 | Information Ethics | 3 |
| IM832 | 數位匯流與法律 | Digital Convergence and Law | 3 |
| IM833 | 智慧財產權法 | Intellectual Property Law | 3 |
| IM834 | 後現代理論與資訊社會專題討論 | Seminar on Theories of Postmodernism and Information Society | 3 |
| IM835 | 數位落差專題 | Seminar in Digital Divide | 3 |
| IM836 | 資訊法律專題 | Seminar on Information Law | 3 |
| IM837 | 數位內容產業專題 | Seminar on Digital Content Industry | 3 |
| IM838 | 數位治理 | Digital Governance | 3 |
| 大數據商業智慧分析學程 | IM711 | 資料儲存與擷取 | Storing and Retrieving Data | 3 |
| IM712 | 機器學習  | Machine Learning  | 3 |
| IM713 | 資料視覺化應用 | Data Visualization | 3 |
| IM714 | 大數據倫理與法律專題 | Ethical and Legal Issues in Big Data | 3 |
| IM715 | 資料科學統整專題 | Data Science Capstone Course | 3 |
| IM716 | 機器學習 II (預測模型) | Machine Learning II (Predictive Modelling) | 3 |
| IM717 | 社群網絡資料分析 | Social Network Data Analytics | 3 |
| IM718 | 文本與網頁分析 | Text and Web Analytics | 3 |
| IM719 | 行銷資料分析 | Marketing Data Analytics | 3 |
| IM720 | 金融資料分析 | Financial Data Analytics | 3 |
| IM721 | 醫療資料分析 | Medical and Healthcare Data Analytics | 3 |
| IM722 | 消費者行為資料分析 | Consumer Behavior Data Analytics | 3 |
| IM723 | 透明化政府專題 | Government Open Data Issues | 3 |
| IM724 | 進階數據分析 | Advanced Data Analytics | 3 |
| IM725 | 製造與運籌資料分析 | Manufacturing and Logistics Data Analytics | 3 |
| IM726 | 巨量資料程式設計 | Big Data Programming | 3 |
| 其他 | IM568 | 專業研習 | MIS Professional Study | 3 |
| 備註 |  |

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