

【2-1 課程流程圖】

Academic Year: 108(Aug 2019~July2020)

Department: Department of Information Management

111 Semester Under Graduate Four-year Program

Curriculum flow chart (Lecture Hours-Labs Hours-Credits)

1st year		2nd year		3rd year		4th year	
1st semester	2nd semester						

Common Compulsory Courses

Physical Education 2-0-0	Physical Education 2-0-0	Physical Education 2-0-0	Physical Education 2-0-0	Practical Chinese 2-0-2		
Literature and Innovation 2-0-2	Literature and Innovation 2-0-2			Artificial Intelligence and Programming 2-0-2		
General Course 2-0-2	General Course 2-0-2	General Course 2-0-2	General Course 2-0-2	General Course 2-0-2	General Course 2-0-2	General Course 2-0-2
Practicum in English Communication (I) 0-2-1	Practicum in English Communication (II) 0-2-1	English Presentation and Writing (I) 2-0-2	English Presentation and Writing (II) 2-0-2	Career English 2-0-2		
Service Learning 0-1-0	Service Learning 0-1-0					
6-3-5	6-3-5	6-0-4	8-0-6	4-0-4	4-0-4	2-0-2

College Common Compulsory Courses (14 credits)

Accounting (I) 3-0-3	Economics (I) 3-0-3	Statistics (I) 3-0-3					Business Ethics 2-0-2
Management Theory 3-0-3							
6-0-6	3-0-3	3-0-3					

Dept Compulsory Courses(51 credits)

Introduction to Computer Science 3-0-3	Program Design 2-2-3	Object Oriented Programming Languages 3-0-3	Statistics (II) 3-0-3	Database Management Systems 3-0-3	Information Management Projects (I) 3-0-3	Information Management Projects (II) 3-0-3
Programming Concept and Methods 2-2-3	Introduction to Information Management 3-0-3	Data Structures 3-0-3	Systems Analysis and Design 3-0-3	Operating Systems 3-0-3	Project Management 3-0-3	Management Information Systems 3-0-3
Calculus (I) 3-0-3			Information Networks 3-0-3	Object-Oriented Software Engineering 3-0-3		
8-2-9	5-2-6	6-0-6	9-0-9	9-0-9	6-0-6	6-0-6

Optional Courses(at least 41 credits)

Total: the minimum credits: 136credits

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Under Graduate Two-year Program

Curriculum flow chart (Lecture Hours-Labs Hours-Credits)

1st year		2nd year	
1st semester	2nd semester	1st semester	2nd semester
Common Compulsory Courses(10Credits)			
Career English 2-0-2	Literature and Innovation 2-0-2		
General Course 2-0-2	General Course 2-0-2	General Course 2-0-2	
4-0-4	4-0-4	2-0-2	
College Common Compulsory Courses (2 credits)			
		Business Ethics 2-0-2	
		2-0-2	
Dept Compulsory Courses(24 Credits)			
Database Systems 3-0-3	Management Object Oriented Programming Languages 3-0-3	Object-Oriented Engineering 3-0-3	Software
Information Networks 3-0-3	Information Management Projects (I) 3-0-3	Information Management Projects (II) 3-0-3	
	Management Information Systems 3-0-3	Project Management 3-0-3	
6-0-6	9-0-9	9-0-9	
Optional Courses(at least 36Credits)			

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Undergraduate Program Selective Courses

Curriculum flow chart (Lecture Hours-Labs Hours-Credits)

1st year		2nd year		3rd year		4th year	
1st semester	2nd semester	1st semester	2nd semester	1st semester	2nd semester	1st semester	2nd semester
Information Technology Optional Courses							
Business Computer Software Applications 3-0-3	Operating System Operation and Administration 3-0-3	Introduction to Cloud Computing 3-0-3	Multi Media Design 3-0-3	Introduction to E-learning 3-0-3	Database Design and Application 3-0-3	Database Administration (I) 3-0-3	Database Administration (II) 3-0-3
Web Page Design 3-0-3			Object Oriented Window Programming 3-0-3	Special Topics of Information Technology (I) 3-0-3	Algorithms 3-0-3	Component-based Software Development Technique 3-0-3	Special Topics of Information Technology (IV) 3-0-3
				Embedded System Development 3-0-3	Special Topics of Information Technology (II) 3-0-3	Special Topics of Information Technology (III) 3-0-3	Data Mining and Big Data Analysis 3-0-3
				The Practice of Cloud Computing Architecture 3-0-3	Web-Based Development 3-0-3	Software Measurement 3-0-3	Cloud Computing Security 3-0-3
				User experience design 3-0-3	Software Architecture 3-0-3	Network Management 3-0-3	Projects for Manufacture Execution System 3-0-3
				Internet of Things Design and Applications 3-0-3	Computer Communication in Practice 3-0-3	Network and Database Application Systems 3-0-3	Internship Industry (III) 1-8-5
					Enterprise Resource Planning—Distribution Modules 3-0-3	Computer Auditing 3-0-3	
					Interaction Design 3-0-3	Internship Industry (I) 1-8-5	
					Practical Applications of Artificial Intelligence 3-0-3		

Information Management Optional Courses

Managerial Psychology 3-0-3	Communication Skills 3-0-3	Decision Support System 3-0-3	Electronic Business 3-0-3	Customer Relationship Management 3-0-3	Topics of Information Management 3-0-3
Medical Information System Management 3-0-3	Clinical medical information system practice management 3-0-3	Global Logistics Management 3-0-3	Investment Information Management 3-0-3	Seminar in eBusiness 3-0-3	Strategic Information System 3-0-3
		Marketing Information System 3-0-3	Introduction to MES Systems 3-0-3	Technology Ethics and Law 3-0-3	
			MES System Analysis and Design 3-0-3	Software Quality Management 3-0-3	
				Seminar of Industrial Pragmatic (I) 3-0-3	Knowledge Management 3-0-3
				Basic Law of Technology 3-0-3	Seminar of Industrial Pragmatic (II) 3-0-3
				Internship Industry (II) 1-8-5	Internship Industry (IV) 1-8-5

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Undergraduate Program Selective Courses

Curriculum flow chart (Lecture Hours-Labs Hours-Credits)

1st year		2nd year		3rd year		4th year	
1st semester	2nd semester						

Other Optional Courses :

Calculus (II) 3-0-3	Managerial Mathematics 3-0-3	* Statistics (I) 3-0-3	* Statistics (II) 3-0-3
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Summer
Industry
Internship
0-4-2

Optional Courses : 其他類 (for two-year program)

◎Program Design 3-0-3	◎Systems Analysis and Design 3-0-3	◎Data Structures 3-0-3
○ Management t Theory 3-0-3		

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PhD Program, Information Management

Curriculum flow chart (Lecture Hours-Labs Hours-Credits)

1st year		2nd year	
1st semester	2nd semester	1st semester	2nd semester
Common Compulsory Courses			
Research Methods in Information Management 3-0-3	Advanced Topics in Information Management(II) 0-2-1	Seminar (I) 2-0-2	Seminar (II) 2-0-2
Research Methods in Computer Science 3-0-3		Doctoral Dissertation 3-0-3	Doctoral Dissertation 3-0-3
Advanced Topics in Information Management (I) 0-2-1			
6-2-7	0-2-1	5-0-5	5-0-5
I.M. Professional Compulsory Courses			
Professional Optional Courses			
Project Management 3-0-3	Topic on software quality and risk management 3-0-3	Knowledge Management 3-0-3	Professional Ethics and Law 3-0-3
Advanced Topics in Information Management 3-0-3	System Planning and Management 3-0-3		Quantitative Methods for Management 3-0-3
E-Business 3-0-3	Qualitative Research Methodology 3-0-3		
Seminar on Global Logistics Management 3-0-3	Seminar on Investment Information Management 3-0-3		
	Customer Relationship Management 3-0-3		
	Econometrics 3-0-3		
I.T. Professional Compulsory Courses			
Professional Optional Courses			
Software Development methodology 3-0-3	Teaching and Learning of Programming Language 3-0-3	Digital Image Processing 3-0-3	Intelligent computation Study and Analysis 3-0-3
Data Mining 3-0-3	Seminar on Business Intelligence 3-0-3	Deep Learning 3-0-3	Optimization Theory and Applications 3-0-3
Decision Analysis 3-0-3		Natural Language Processing 3-0-3	Distributed Computing 3-0-3
Artificial Intelligence in Computer Security 3-0-3			Seminar(II)
Advanced Data Structures and Algorithms 3-0-3	Seminar on Medical Informatics 3-0-3	3-0-3	
	Special Topics on E-learning 3-0-3	Graduate Seminar(I) 3-0-3	
		Robotics 3-0-3	
	Interaction Design and Thinking 3-0-3		
	Machine Learning 3-0-3		
	Big Data Analysis 3-0-3		
	Artificial Intelligence in Precision Medicine 3-0-3		
Total: the minimum credits: 36credits (Including thesis 6 credits)			

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Graduate School, Information Management

Curriculum flow chart (Lecture Hours-Labs Hours-Credits)

1st year		2nd year	
1st semester	2nd semester	1st semester	2nd semester
Compulsory Courses (20 credits in total) :			
Research Method 3-0-3	Foundation of Computer Science3-0-3	Master Thesis 3-0-3	Master Thesis 3-0-3
Topics of Information Management (I) 0-2-1			
Management Theory and Practice3-0-3 6-2-7	Topics of Information Management (II) 0-2-1 Management Information Systems3-0-3 6-2-7	3-0-3	3-0-3
Optional Courses (At Least 15 credits) :			
Planning & Management Type :			
Strategic Use of Information Systems 3-0-3	System Planning and Management 3-0-3	Knowledge Management 3-0-3	Intelligent Computation Study and Analysis3-0-3
Seminar on Global Logistics Management 3-0-3	Customer Relationship Management 3-0-3		
Project Management 3-0-3	Information Service Management3-0-3		
	Summer Advanced Internship Industry0-6-3		
System Develop Type :			
Component-based Software Development Technique 3-0-3	Big Data Processing 3-0-3 Interaction Design and Thinking 3-0-3	Network and System Securities 3-0-3	Intelligent Computation Study and Analysis3-0-3
Data Management and Applications 3-0-3	Advanced Data Structures and Algorithm3-0-3		
World Wide Web System 3-0-3	Teaching and Learning of Programming Languages3-0-3		
Document Engineering 3-0-3	Seminar on Business Intelligence3-0-3		
Data Mining 3-0-3	Network Defense Techniques And Applications3-0-3	Distributed Computing 3-0-3	Optimization Theory and Applications 3-0-3
Seminar on Deep Learning 3-0-3	Machine Learning3-0-3		
	Big Data Analysis 3-0-3		
Information System Application Type :			
Neural Network in Business Application 3-0-3	Seminar (II) 3-0-3	Cyber-Insurance and Intangible Assets Valuation 3-0-3	Seminar on E-Commerce 3-0-3
Seminar (I) 3-0-3	Special Topics on E-learning 3-0-3	Digital Image Processing 3-0-3	Robotics 3-0-3
E-Business 3-0-3	Investment Information Management3-0-3	Natural Language Processing 3-0-3	Distributed Computing 3-0-3
Artificial Intelligence in Computer Security 3-0-3	Seminar on Medical Informatics 3-0-3 Artificial Intelligence in Precision Medicine 3-0-3	3-0-3	Quantitative Methods for Management 3-0-3 Optimization Theory and Applications 3-0-3
Qualitative Method Type :			
	Decision Analysis 3-0-3 Qualitative Research Methodology 3-0-3	Soft Computing and Its Application 3-0-3	Professional Ethics and Law 3-0-3
	Data Analysis 3-0-3	Optimization Theory and Applications 3-0-3	Quantitative Methods for Management 3-0-3 Optimization Theory and Applications 3-0-3
	Econometrics 3-0-3		
Total: the minimum credits: 35credits (Including thesis 6 credits)			

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Executive Master of Business Administration's Program

Curriculum flow chart (Lecture Hours-Labs Hours-Credits)

1st year		2nd year	
1st semester	2nd semester	1st semester	2nd semester
Common Professional Compulsory Courses(計 21 Credits)			
Research Method 3-0-3	Data Management and Applications 3-0-3	Network Technology and Management 3-0-3	Master Thesis 3-0-3
Introduction to Service Science 3-0-3	Project Management 3-0-3	Master Thesis 3-0-3	
6-0-6	6-0-6	6-0-6	3-0-3
Common Professional Optional Courses			
Interaction Design and Thinking 3-0-3	Neural Network 3-0-3	Qualitative analysis methods and applications 3-0-3	Data Mining 3-0-3
Management Information Systems 3-0-3	Application of Statistic Method 3-0-3	Knowledge Management Theory and Application 3-0-3	Professional Ethics 3-0-3
Professional Optional Courses			
Strategic Use of Information Systems 3-0-3	Investment Information Management 3-0-3	Global Logistics Management 3-0-3	Marketing and Customer Relationship Management 3-0-3
Programming and System Development 3-0-3	Information Service Management 3-0-3	Application of information technology service management 3-0-3	Network and System Securities 3-0-3
Seminar on Business Intelligence 3-0-3	Web-Based System Development and Application 3-0-3	Service information management and decision support 3-0-3	Big Data Processing 3-0-3
The Special Topics For Industrial Service Management(I) 3-0-3	Topics in Electronic Commerce 3-0-3		
	The Special Topics For Industrial Service Management(II) 3-0-3		
Professional Optional Courses			
Digital Content Management 3-0-3	Theories of E-learning 3-0-3	E-Learning Design and Applications 3-0-3	Digital Testing and Assessment 3-0-3
	Digital Evidence and Computer Forensics 3-0-3		
Other Optional Courses			
Total: the minimum credits: <u>36 Credits</u>			

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Executive E-learning Master of Business Administration's Program

Curriculum flow chart (Lecture Hours-Labs Hours-Credits)

1st year		2nd year	
1st semester	2nd semester	1st semester	2nd semester
Common Professional Compulsory Courses(計 21Credits)			
Research Method 3-0-3	Data Management and Applications 3-0-3	Network Technology and Management 3-0-3	Master Thesis 3-0-3
Introduction to Service Science 3-0-3	Project Management 3-0-3	Master Thesis 3-0-3	
6-0-6	6-0-6	6-0-6	3-0-3
Common Professional Optional Courses			
Interaction Design and Thinking 3-0-3	Application of Statistic Method 3-0-3	Qualitative analysis methods and applications 3-0-3	Data Mining 3-0-3
Management Information Systems 3-0-3	Neural Network 3-0-3	Global Logistics Management 3-0-3	Professional Ethics 3-0-3
Professional Optional Courses			
Strategic Use of Information Systems 3-0-3	Information Resources Management 3-0-3	Application of information technology service management 3-0-3	Marketing and Customer Relationship Management 3-0-3
Programming and System Development 3-0-3	Web-Based System Development and Application 3-0-3	Service information management and decision support 3-0-3	Network and System Securities 3-0-3
Network Defense Techniques And Applications 3-0-3	Topics in Electronic Commerce 3-0-3	Study on Digital Technology Instruction 3-0-3	Big Data Processing 3-0-3
The Special Topics For Industrial Service Management(I) 3-0-3	The Special Topics For Industrial Service Management(II) 3-0-3	Investment Information Management 3-0-3	
Seminar on Business Intelligence 3-0-3	Digital Evidence and Computer Forensics 3-0-3		Knowledge Management Theory and Application 3-0-3
Total : <u>36 Credits</u>			