



UNIVERSITY OF THE EAST
Graduate School
Manila

Master in Information Systems (MIS)		
Core		
GIS 7101	Organization, Management and Administration of Information Systems	3
GIS 7102	IT Project and Change Management	3
GIS 7103 GIS 7104	Advanced Accounting Systems	3
	Information Systems Policy and Strategy	3
		12
Major		
GIS 7105	Transaction Processing	3
GRR7502	Research Methods across Disciplines	3
GIS 7107	Data Mining and Business Intelligence	3
GIS 7108	Enterprise Resource Planning	3
		12
Elective		
GIS 7109	Advanced Software Engineering	3
GIS 7200	Organization of Database	3
GIS 7201	Network and IT Security Infrastructures	3
GIS 7202	Management Principles : Theory and Practice	3
GIS 7203	Technology Management	3
GIS 7204	Business Systems Consulting	3
GIS 7205 GIS 7206	Strategic Information Systems	3
	Special Topics in Business Analytics	3
		6
GRR 7700	Comprehensive Examination	3
GIS 7908 GIS 7909	Capstone Project I (Documentation)	3
	Capstone Project II (Software Development)	3
	At least one (1) publication in refereed journal or juried creative work.	6
	Total	36

* Revised Curriculum SY 2014-2015 from *Master in Information Management*

** Initial offering First Semester, SY 2014 - 2015

*** CHED - Government Recognition 2014-2015

**** PACUCOA, Candidate Status, 2016-2018; PACUCOA, Level I Accredited Status (June 2018-January 2021)

CORE

GIS 7101 Organization, Management and Administration of Information Systems

This course covers topics on information technology and organizations, information technology and individuals (privacy, ethics, job security, and job changes), information technology and information security, information technology within the organizations (electronic data interchange and electronic commerce). This course also covers the role of information systems in organizations and how they relate to organizational objectives and organizational structure. Basic concepts are introduced including the systems point of view and organization, information flows and the nature of information systems. (3 units)

GIS 7102 IT Project and Change Management

This course covers topics on managing projects within an organizational context, including the processes related to initiating, planning, executing, controlling, reporting and closing a project. It also covers topics on project integration, scope, time, cost, quality control and risk management. Emphasis will be on managing the changes in organizations resulting from introducing or revising information systems, and identifying project champions, working with user teams, training and documentation. (3 units)

GIS 7103 Advanced Accounting Systems

This course covers accounting with emphasis on preparation of financial statements for external parties (financial accounting) and accumulation of cost information to aid internal planning and control (managerial accounting). It will also include topics on measurement of assets and liabilities, revenues and expenses, the accounting cycle, financial statements, cost terminology, cost behavior, product costing, and relevant costs for decision making. (3 units)

GIS 7104 Information Systems Policy and Strategy

This course covers topics on top management with strategic perspective for aligning competitive strategy, core competencies and information systems. It will also discuss topics on the development and implementation of policies and plans to achieve organizational goals and the definition of systems that support the operational, administrative and strategic needs of the organization, its business units and individual employees. It will put emphasis on approaches to managing the information systems function in organizations, including examination of the dual challenges of effectively controlling the use of well-established information technologies, while experimenting with selected emerging technologies. (3 units)

MAJOR

GIS 7105 Transaction Processing

This course covers the transaction-driven information systems and both the theoretical and pragmatic issues addressed by transaction processing systems. It covers the empirical measures and approaches in dealing with system failures, transaction programming styles and transaction concept to handle workflow applications, serializability theory, concurrency control, recovery, distributed commit protocols, replication, parallelism, distribution design, and federated and multi-databases. (3 units)

GIS 7106 Information Systems Research Methods

Information Systems Research Methods will engage students in looking at a research problem in business. This course will provide information on a suitable business research question, conduct a literature survey, and select appropriate research methods to answer their research questions, and to collect and analyze data. Emphasis will be on the assessment of business research and drawing conclusions for business practice. (3 units)

GIS 7107 Data Mining and Business Intelligence

This course covers the principles of Business Intelligence (BI), its areas and effect, implementation principles, task management, effect and critical success factors, planning and analysis, design and modeling. This will also include BI technologies and its common functions such as reporting, online analytical processing analytics, data mining, process mining, complex event processing, business performance management, benchmarking, text mining, predictive and prescriptive analytics. (3 units)

GIS 7108 Enterprise Resource Planning

This course serves as an introduction to the world of ERP. It provides a solid foundation for common business and the ERP system for the management of information across several functional areas of business. (3 units)

ELECTIVE

GIS 7109 Advanced Software Engineering

This course covers the various principles and techniques used in software design and development methodology. Other topics to be included are formal analysis, product and process metrics, evolution and maintenance, team organization and people management, software engineering aspects of programming languages and software psychology. (3 units)

GIS 7200 Organization of Database

This course provides an advanced concept on database architectures including the Relational, Hierarchical, Network and Object-oriented models. This will also include issues on security, integrity and query optimization. (3 units)

GIS 7201 Network And It Security Infrastructures

This course will focus on the concepts associated with computer networks and related technologies, computer architecture, design principles, programming and soft-skilled development. The course will concentrate more on the design, implementation and network performance of the converged enterprise-wide computer networks. (3 units)

GIS 7202 Management Principles: Theory and Practice

This course covers the theory and practice in management. It will provide the major management functions and the application of principles to the decision-making process. Emphasis is placed on assessing strategic plans, designing organizational structures and examining management control systems within the framework of the internal and external environments. (3 units)

GIS 7203 Technology Management

This course covers the concepts related to the changing technological environments and strategy, distinctive technological competencies, capability assessment, forecasting, industrial analysis. This will also covers the principles of economics, technological development, transfer, utilization, protection and national innovation system. (3 units)

GIS 7204 Business Systems Consulting

This course covers the practical aspects of evaluation, implementation, design of complex information systems and integration of information and communication technologies to support business activities. (3 units)

GIS 7205 Strategic Information Systems

This course will focus on the innovative use of information systems and technology to business functions. The emphasis will be on the managerial perspective on the effective and efficient use of SIS in the business environment, emerging open standard software applications and solutions, concepts on e-commerce, knowledge management and business process reengineering. (3 units)

GIS 7206 Special Topics in Business Analytics

This course will initially focus on forecasting and prediction of future outcomes based on historical patterns. This will cover the extensive use of data, statistical and quantitative analyses, explanatory and predictive modelling & fact-based management. (Prerequisite: GIS717, 3 units)

GRR 7700 Written Comprehensive Examination

Pre-requisite: Completed all academic requirements. (0 units)

GIS 7908 Capstone Project I – Documentation

This course is a culminating activity to demonstrate the ability to apply key knowledge and skills in planning, completing and presenting a proposed project linked to one or more areas of business and information technology. The output of this activity is the documentation of the proposed project limited only to the precursor events in developing the software. (3 units)

GIS 7909 Capstone Project II – Software Development

This course is a culminating activity that generates an output that is useful in the employment of an IS solution. This may be but not limited to applications development that focuses on the improvement of information flow within the organization, or project management that focuses on deployment of IS in organizations. (Pre-requisite: GIS 798, 3 units)

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