Doctor of Philosophy in Business Administration \ Management Information Systems

Number of required units is (3^{1}) study units, elective units (6), in addition to (12) study units for thesis as follows:

Code	Code Course Name	
BA 601	Theory Development in Business Administration	3
ECON 606	ECON 606 Advanced Economic Analysis	
QUA 608	QUA 608 Advanced Business statistics	
Total		9

G (1) .

Semester (2)

Code	Course Name	Hours
QUA 609	Applied Multivariate Analysis	3
MIS 611	Research Seminar in Management Information Systems	3
MIS 613	MIS 613 Enterprise Information Infrastructure Planning	
Total		9

Semester (3)

Code	Code Course Name	
MIS 614	Technology Innovation, Adoption and Diffusion Theories	3
MIS 616	Business Intelligence	3
MIS xxx	MIS xxx Elective Course (1)	
Total		9

Code	Semester (4) Code Course Name			
MIS 630	Directed Readings in Management Information Systems	3		
BA 698	BA 698 Seminar in Advanced Research Design			
MIS xxx Elective (2)		3		
Total		9		

Semester (5)

Code Course Name		Hours
COM 700	COM 700 Comprehensive Exam	
MIS 699	MIS 699 Thesis Proposal Preparation in MIS	
Total		1

Semester (6) (8) & following levels

Code	Course Name	Hours
MIS 700	Thesis	12
	Total	12

Elective Course: student must select (2) courses from the following

Code	Course Name	Cr Hrs	Cr Hrs (Total)
MIS 618	Digital Information Systems Strategy	3	
MIS 620	Information Security and Privacy	3	
MIS 622	Social Media and Network Analysis	3	student
MIS 624	Managing Technological Change and Innovation	3	must select
MIS 626	Special Topics in MIS	3	(2)
BA 661	Measurement Theory and Method	3	courses
QUA 611	Applied Nonparametric Statistics	3	courses
MIS 618	Digital Information Systems Strategy	3	

• Description of Courses:

A. Courses	Managed by the Council of Graduate Programs	in Business
Course Code & No.	Name	No. of study Units
BA 601	Theory Development in Business Administration	3 (3+0)
is explored. Students from theory development and the adequacy of explanations a formulating research problem easurement, sampling, as	mology in generating, defending and clarifying logi diverse business disciplines will examine the proce ecory testing. Attention will focus on what criteria a and useful theories. Topics include philosophy of sc lems and questions, literature reviews and searches, and qualitative and quantitative research methods and pected to prepare a research proposal/literature review	sses which have guided re used to assess the ience, finding and basic concepts in d designs. During the
BA 661	Measurement Theory and Method	3 (3+0)
The basics of measurement Theory are covered. Meast included as well. Students	provide theoretical and methodological issues in so t including Classical Test Theory, Reliability, Valic urement analysis such as Exploratory and Confirma are to model measurement error using Structural Ec effects. This course replies on a broad use of statist nd EQS.	lity, and Item Response tory Factor analysis are quation Modeling, with
BA 698	Seminar in Advanced Research Design	3 (3+0)
problems. The course cont proposal. The course object research techniques in bus literature review, 4) form t	inced research techniques and designs, and their appributes to developing the students' skills in preparin etives include developing the students' ability to: 1) iness administration, 2) identify a research area of in research questions and operational hypotheses, 5) de lysis and interpretation plan.	ng the dissertation acquire advanced nterest, 3) conduct a
	B. Courses From Other Departments	
ECON 606	Advanced Economic Analysis	3 (3+0)
	1	
Imperfect Competition, Ga Theories, Risk and Uncert related to macro-economic	de range of topics related to micro-economic theory ame Theory, Oligopoly, Strategic Behavior, Welfard ainty, and Externalities and Market Failures. It also theory such as Consumption, Investment and Uner Setting, Growth theories and Business Cycle Theor	e and General Equilibrium discusses certain topics nployment, Monetary

This course covers parametric and nonparametric statistics, intermediate and advanced statistics, and the review of descriptive statistics with applications using the statistical package SPSS. The contents will be more oriented toward practical applications, its use and interpretation, rather than mathematical derivation. Course topics include: role and purpose of statistics, descriptive statistics, summary measures for quantitative and qualitative data, data displays, modeling random behavior: elementary probability and some probability distribution models, normal distribution, statistical inference: confidence intervals and tests for means, variances, and proportions, linear regression analysis and inference, control charts for statistical quality control, introduction to experimental designs and ANOVA, simple factorial design and its analysis.

QUA 609	Applied Multivariate Analysis	3 (3+0)
0	provide students with knowledge of the concepts up	
techniques with an overvie	ew of actual applications in business. Topics covered	ed include: review of
matrix theory, univariate r	normal, t, chi-squared and F distributions, and multi-	variate normal
distributions. Inference ab	out multivariate means, Hotelling's T2, multivariate	analysis of variance,
multivariate regression, an	nd multivariate repeated measures. Inference about of	covariance structure,
principal components, fact	tor analysis, and canonical correlation. Multivariate	classification techniques,
discriminant and cluster and	nalysis, measures of validity and reliability.	• • •

QUA 611	Applied Nonparametric Statistics	3 (3+0)
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Theory and applications of various nonparametric statistical methods are covered for one-sample, twosample, and multi-sample problems. Goodness of fit techniques such as Chi-square and the Kolmogorov-Smirnov test are covered along with graphical analysis based on P-P and Q-Q plots. Computer software such as MINITAB, SAS, SPSS, and STATXACT are used.

C. Management Information Systems Department Courses

Research Seminar in Management Information Systems

3 (3+0)

This course provides doctoral students with a foundation for becoming Management Information Systems researchers and scholars. In covering the management information systems (MIS) research literature, we will overview the field of Information Systems, reading "classic" articles as well as more current research in a variety of Information Systems domains. It explores applicable research theories and frameworks, research concepts, and exemplary MIS research. Students will become familiar with the range of types of research carried out by MIS academics. They will study exemplar research papers to further their understanding of the research process and will set the stage for future research work in this important area.

MIS 613	Enterprise Information Infrastructure Planning	3 (3+0)
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This course introduces students with methods and practices involved in the planning and design of information infrastructure commonly found in large and medium enterprises. The course blends concepts and techniques found in project planning, system design and development, technology planning, with the goal of providing students with the ability and understanding of how to plan and design an information infrastructure for a firm.

MIS 614

Technology Innovation, Adoption and Diffusion Theories

3 (3+0)

This course provides an overview of management information systems theories. It examines the adoption and diffusion of technology innovations. Specific topics covered include adoption/assimilation, technology acceptance, s-curves and diffusion modelling, implementation process models, adoption of inter-organizational systems, attitude behavior models, diffusion of innovations, social-cognition, satisfaction and individual differences.

MIS 616Business Intelligence3 (3+0)The course introduces the concepts, practices, systems and technologies of business intelligence. It
emphasizes on the study of expert systems and artificial intelligence and the use of knowledge in
making managerial decisions. The course will emphasize on how to extract and apply business
intelligence to improve business decision making and marketing strategies.

MIS 618	Digital Information Systems Strategy	3 (3+0)

This course is designed to expose the students to the opportunities and challenges associated with strategic management of information technology (IT). We will examine strategic and managerial issues associated with using IT for enhancing business performance. We will learn about the key issues confronting senior IT executives and understand the managerial decisions facing them. The course will largely adopt a managerial approach. Skills of critical reasoning, ability to communicate clearly both orally and in writing and creativity will be emphasized in this class.

MIS 620

Information Security and Privacy

3 (3+0)

Information security and privacy issues have become an intensely argued issue for organizations due to the progressions in information technology. Information security management and privacy breaches necessitate an absolute knowledge of technical as well as philosophical and theoretical perspectives of the predicament. The purpose of the course is to prepare business decision makers who recognize the threats and vulnerabilities present in current business information systems and know how to design and develop security solutions. The students will be engaged in conducting distinctive research regarding efficiently securing information and privacy in organizations.

MIS 622

Social Media and Network Analysis

3 (3+0)

A contemporary research recognizes that social media and network analysis significantly influence an organization's technological innovation performance. The course reveals the students to the theory,

MIS 624	Managing Technological Change and Innovation	3 (3+0)
innovations in business, th combines entrepreneurial, and innovative businesses	tudent with a review and case studies of successful c eir components, and strategies in information techno strategic, marketing, legal, societal and financial the in the context of IT services and products. The cour particular technological capabilities and competitive	blogy. The course emes in support of change se addresses the design o
MIS 626	Special Topics in MIS	3 (3+0)
	advanced research topics in MIS such as web minin uting, management information systems and cyber s	
MIS 630	Directed Readings in Management Information Systems	3 (3+0)
work shall consist of resea	hange of scholarly information, usually in a small grace rch by the instructor, his/her research interests and construct of such research through discussion, reports, and/or	other selected topics, with
MIS 699	Thesis Proposal Preparation in MIS	One Study Unit
698 (Seminar in Advanced	ered during the student's fourth term of study. It is a l Research Design). This course is designed to provi ertation proposal. The outcome of these two courses	de a forum to help
COMP 700	Comprehensive Exam	(0)
Systems, which aims to lin understanding topics related	brehensive exam managed by the department of Mar ak the knowledge side in terms of depth and compre- ed to management information systems, as well as his s, innovation, conclusion and proposing appropriate	hensiveness in nking the intellectual
MIS 700	Dissertation	(12) Study Unit

