



" عراقة وجودة" "Tradition and Quality"

Brief								
2		QF01/0409-3.0E						
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		Faculty of Science						
Faculty		and Information	Academic Department	Computer Information Syst	ama	Number of The		
		Technology	Department	mornation Syst	ens			
Number of	Major		Date of			Course Plan (QF01/0407-3.0)		
Requiremen	•	32	32 <b>Plan</b> 30/8/2017					
Courses			Approval					
This form is	just for th	e major requirement co		•				
Course	Credit	* •			P	rerequisite-Co-		
Number	Hours	Title	of the Course			Requisite		
0113353	3	D	ata Mining		Adv	vanced Databases		
	_	he following topics:	8					
Introduction	to Dat	01	ion Clustering	, Association R	ule T	Discovery, Anomaly		
		g, Collaborative Filtering	, 0	,,		incovery, rubility		
Course	Credit	-				rerequisite-Co-		
Number	Hours	Title	of the Course		1	Requisite		
0113344	3	Advor	nced Database	6		Databases		
	-	he following topics:	iceu Database	5		Databases		
Transaction,	Failures		orry Ontimizati	ion Indoving	nd L	lashing, Distributed		
,			• 1			$\mathcal{O}^{\mu}$		
		ta Types, Storage Units	s, RAID, and va	arious advanced d				
Course	Credit	Title	of the Course			rerequisite-Co-		
Number	Hours		***		Requisite			
0113455	3		a Warehouses			vanced Databases		
This course	-	s the following topic			0			
Environment,	-	g a Data Warehouse,		•	stribute	d Data Warehouse,		
		a Models, and Advance	ed Data Wareho	ouse Topics.				
Course	Credit	Title	of the Course			rerequisite-Co-		
Number	Hours			-	Requisite			
0113457	3		nation Retrieva			vanced Databases		
		the following topics: ]			,	1		
information	,		,		- •	Processing, Index		
-	•	c Inverted Indices, Pro	obabilistic Retri	eval, Measuring I	Effective	eness, Web Search,		
		Retrieval Topics.						
Course	Credit	Title	of the Course		P	rerequisite-Co-		
Number	Hours					Requisite		
0113459	3	0	ata Manageme			rmation Retrieval		
This course	includes t	he following topics: Int	troduction to $\overline{B}$	ig Data, Data Moo	lel for	Big		
Data, Batch Layer, Serving Layer, and Real-time Views.								
Course	Credit	Title of the Course Prerequisite-Co-						
Number	Hours	Title of the Course Requisite						
0112439	2	Advanced D-41		ant Suctor	Data	base Management		
0113428	0113428 3 Advanced Database Management Systems Database Management Systems							
This course includes the following topics: Revision of SQL, PL/SQL, and Forms Builder, Advanced								
This course	includes t	he following topics: Re	evision of SQL.	PL/SQL, and For	rms Bu	· · · · · · · · · · · · · · · · · · ·		
		he following topics: Re Report Builder, Case S	-	PL/SQL, and For	rms Bu			
		Report Builder, Case S	Study.	PL/SQL, and For		ilder, Advanced		
Forms Build	er topics,	Report Builder, Case S	-	PL/SQL, and For				





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Brief course description- Course Plan Development and Updating Procedures\ Computer Information Systems Department	QF01/0409-3.0E

0113446 **Cloud Computing** 3 Data mining The course will introduce this domain and cover the topics of cloud infrastructures, virtualization, software defined networks and storage, cloud storage, and programming models. As an introduction, we will discuss the motivating factors, benefits and challenges of the cloud, as well as service models, service level agreements (SLAs), security, example cloud service providers and use cases. Modern data centers enable many of the economic and technological benefits of the cloud paradigm; hence, we will describe several concepts behind data center design and management and software deployment. Next, we will focus on virtualization as a key cloud technique for offering software, computation and storage services. We will study how CPU, memory and I/O resources are virtualized, with examples from Xen and VMWare, and present real use cases such as Amazon EC2. Within the same theme of virtualization, students will also be introduced to Software Defined Networks and Storage (SDN and SDS). Subsequently, students will learn about different cloud storage concepts including data distribution, durability, consistency and redundancy. We will discuss distributed file systems, NoSOL databases and object storage. HDFS, CephFS, HBASE, MongoDB, Cassandra, DynamoDB, S3, Swift and Ceph Object Gateway will be presented as case studies.

Course	Credit	Title of the Course	Prerequisite-Co-
Number	Hours	The of the Course	Requisite
0113231	3	Computer Network	Introduction to Information Technology

This course provides the following topics:

Instruction in networking technologies and their implementation topics include the OSI reference model, network protocols, transmission media, and networking hardware and software.

The purpose of this course is to identify and use network transmission media; explain the OSI model; recognize the primary network topologies/protocols, identify their characteristics, and determine which would be most appropriate for a proposed network; identify the functions of a network operating system and distinguish between centralized, client/server, and peer-to-peer systems; and distinguish between Local Area Networks (LANs) and Wide Area Networks (WANs) and identify the components used to expand a LAN into a WAN.

Course	Credit	Title of the Course	Prerequisite-Co-
Number	Hours		Requisite
0113414	3	Artificial Intelligence and Expert Systems	Algorithms

The course aims to: presenting the basic concepts of AI; Describing how to represent knowledge used in AI in both theory and practice with careful attention to the underlying principles of logic, search, and probability; Describing concepts of state space search and its strategies; Presenting blind and heuristic search algorithms and how to use these algorithms for problem solving; Describing the main concepts of production systems; Presenting basic concepts and roles of AI programming (PROLOG); Defining concepts of expert systems; and Defining concepts of machine learning.

Course Number	Credit Hours		Ti	tle of the C	ourse			Prerequis Requi	
0113313	3			Algorithm	S			Data Str	ucture
This course	describin	ng: concepts	of	algorithms	and	analyzing	the	efficiency of	algorithms'
time/memory	Efficiency	v levels of a	loorit	hme and de	finitio	ne of Rig	$\cap$	naturic of itera	tive/recursive

time/memory; Efficiency levels of algorithms and definitions of Big-O, analysis of iterative/recursive algorithms; Searching unsorted/sorted lists, and understanding linear search, and binary search for unsorted/sorted lists; Hashing method, hash tables and functions, searching, reading and writing in hash tables; Sorting algorithms such as selection, insertion, recursive, quick and Heap; Concepts of Graphs and trees, and their static and dynamic representations; Graph traversal using depth-first and





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breadth-first search of graphs and Dijkstra's shortest-path algorithm; Dynamic programming techniques and Fibonacci numbers; Computational complexity and classes of complexity: P, NP, NP-hard, NPcomplete; and choosing appropriate data structures and algorithms for solving problems.

Course	Credit	Title of the Course	Prerequisite-Co-
Number	Hours		Requisite
0113212	3	Data Structure	Object Oriented Programming

This course concerns with: the main concepts of data structures and algorithms; Concept of Abstract Data Type, design and implementation; Design and implement of many user defined data structures (lists, stacks, and queues) as Java class using both Array representation and Node representation; Principles of recursion; Principles of Analysis Tools and Analysis of Algorithms; Concepts of trees, tree traversal, tree search, binary tree search; Searching and sorting methods; and finally, the concepts of Text/String processing.

Course	Credit	Title of the Course	Prerequisite-Co-
Number	Hours		Requisite
0113445	3	Project Management	Analysis and Design of Object Systems

This course give the concepts of project management and PM process groups. Develop a comprehensive project plan for a significant development effort. Managing project integration, strategic planning, project selection and project charter. Managing project scope and how to create scope management plan and work breakdown structure. Defining project activities, sequencing, timing, duration, activity resource estimating, activity duration estimating, schedule development/control using Microsoft Project 2010. Defining cost management and how to estimate cost, budget and control using Microsoft Project 2010. Manage project quality, quality planning, control, tools and techniques for quality control. Manage human resource and how to plan human resource and developing, managing project team. Manage project communication and how to build communication plan, performance report and how to manage stakeholders. And identify project risks, risk sources and how to manage, plan project risks and responses and finally how to analyze qualitative and quantitative risks.

	Course Number	Credit Hours	Title of the Course	Prerequisite-Co- Requisite
I	0112259	2	Information Economy and Knowledge	<b>Business Information</b>
	0113358	3	Management	Systems

This course concerns with: Concepts of digital economy, IT and e-business, business pressures, and organizational responses; Roles of IT in supporting functional areas, information infrastructure and architecture; Aspects of economics of IT, and approaches for evaluating IT investment; Economic impact of EC and economic issues related to Web-based technologies; Causes of systems development failures, theory of increasing returns, and market transformation through new technologies; Concepts of knowledge management, types of knowledge, and brief history of knowledge management; Elements of KM, knowledge creation and capture, knowledge sharing, information storage and retrieval, and knowledge dissemination; and finally, Concepts of KM tools and implementation of KM.

Course Number	Credit Hours	Title of the Course	Prerequisite-Co- Requisite
0113353	3	Information Security	Algorithms
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This course provides the following topics:

Introduction to information security and its importance, threats and vulnerabilities of computing system,





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understanding of classical encryption techniques: Substitution, Transposition and Product Ciphers. Examination of conventional encryption algorithms and design principles including transposition and substitution techniques such as DES. Understanding of the modern cryptographic techniques such as RSA, Key distribution, digital signature, identification and authentication, and sharing keys. Provide basic understanding of attack types, Network security Access control methods, Firewalls, Malware, and Digital watermarking/Steganography

Course Number	Credit Hours		Title of the Course				Prerequisite-Co-Requisite		
0113251	3	Mar	Management of Electronic Information Systems				Introduction to Information Technology		
This course p	provides o	compreher	sive concepts	of	information	systems and	how to	implement ther	n in
organizations.	-		management				•	e-commerce,	m-

commerce, management information systems (MIS), decision support systems (DSS), group support systems (GSS), executive support systems (ESS/EIS), and enterprise systems such as transaction processing systems (TPS).

Course Number	Credit Hours	Title of the Course	Prerequisite-Co- Requisite
0113325	3	Database Management Systems	Databases

This course provides the following topics:

SQL, data definition language DDL, data manipulation languages DML, and data control language DCL, PL/SQL, Control Structure statements, Functions, Procedures, Packages and Triggers. Records and tables, Oracle developer Forms include Triggers and LOVs, property palette, Writing PL/SQL in trigger, Item types, canvas types. Different Style of Reports. Practical applications and Projects.

Course	Credit	Title of the Course	Prerequisite-Co-
Number	Hours		Requisite
0113241	3	Databases	Object Oriented Programming

This course provides the following topics:

Introduction to database: characteristics of DB approach, components of DB systems, DB architecture, data modeling, database users and administrators. Relational model, SQL programming, Relational-Algebra, Entity-Relationship model, introduction to object oriented database and UML, relational database design, functional dependency and normalization, , practical applications using a standard relational DB system .

Course	Credit	Title of the Course	Prerequisite-Co-
Number	Hours		Requisite
0113222	3	<b>Object Oriented Programming</b>	Principles of Programming

This course introduces the fundamentals of object oriented programming (OOP) using JAVA programming language. The course presents declaration statements, I/O statements, control statements, methods, arrays, classes and objects and their relations (association, aggregation, and composition), abstract classes, inheritance, polymorphism, and interface, introduction to exception handling.

Course	Credit	Title of the Course	Prerequisite-Co-
Number	Hours		Requisite
0113323	3	Visual Programming	Object Oriented Programming





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This course focuses on advance topics in Java programming language such as: designing GUI, advance GUI, different components, Menus, layout, event-driven programs. Java Graphics, Java Applet, Exception Handling, files in Java, connection with database using JDBC.

Course	Credit	Title of the Course	Prerequisite-Co-
Number	Hours		Requisite
0113326	3	Ready Packages	Introduction to Information Technology

This course introduces the tools and techniques for building Multimedia applications. Students will be taught how use Flash in developing interactive application in the aspect of animation cop concepts and how to use Cinema 4D tools to develop three dimension movie.

Course	Credit	Title of the Course	Prerequisite-Co-
Number	Hours		Requisite
0113424	3	Internet Applications Programming	Web Design

This course introduces the tools and techniques for building and using advanced programming techniques to design websites. Combining scripting languages with object-oriented languages and database systems, such as HTML, JavaScript, PHP, MySQL, etc.

Course	Credit	Title of the Course	Prerequisite-Co-
Number	Hours	The of the Course	Requisite
0113111	3	Discrete Mathematics	Introduction to
0110111	Ŭ	Distrete multimules	Information Technology

This course provides The following topics: Numbers and exponents, Errors (absolute and relative), Propositions, Predicates and Quantifiers, Quantifiers and logical operators, Logical Inference, Methods of Proof, Sets, Relations and Functions.

Course Number	Credit Hours	Title of the Course	Prerequisite-Co- Requisite
0113472	3	Graduation Project	Department Approval

This course gives the students the chance to demonstrate their intellectual, technical and creative abilities through developing a projects in one of information technology fields. The Graduation Project challenges students to go beyond the learning that occurs as the result of their prescribed educational program. Students shall complete their projects in areas of concentrated study under the direction and supervision of faculty members. The projects will demonstrate the students' ability to: apply, analyze, synthesize, evaluate information, and communicate significant knowledge and comprehension.

Course	Credit	Title of the Course	Prerequisite-Co-
Number	Hours		Requisite
0113471	1	Methodology for Building Project	System Analysis and Design

In this course, students will study all the basic aspects of building a graduation project. They will need to prepare a proposal of the project idea, including: basic information about the project, project background, project objectives, implementation mechanisms and implementation plan, target, and the feasibility study. The student should also defense his/her idea by presenting his/her project proposal.

Course Number	Credit Hours	Title of the Course	Prerequisite-Co- Requisite
0113381	3	Selected Topics in CIS	Department Approval
Advanced top	ics in CIS	prepared by faculty staff and with department appro	val.
Course	Credit	Title of the Course	Prerequisite-Co-



جامعة الزيتونة الأردنية

Al–Zaytoonah University of Jordan

كلية العلوم وتكنولوجيا المعلومات



Faculty of Science and Information Technology

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Number	Hours		Requisite			
0113342	3	System Analysis and Design	0113241			
This course p	his course presents the techniques and tools for computer information systems analysis and design.					
The focus will be on the phases of software development life cycle (SDLC). It also emphasizes problem						
definition, fac	ts gathe	ring techniques and sources, requirements analy	ysis, specifications, design			
modeling, inp	out and	output design; program coding and system co				
development		different analyses/design techniques, modeling tools				
and manageme	•		C C			
Course	Credit		Prerequisite-Co-			
number	Hours	Title of the Course	Requisite			
0113343	3	Object Oriented Analysis and Design	0113342			
Object Orient	ed Analy	rsis using Unified Process methodology. Talking ab	out agile methodology and			
	•	umic systems. Introducing UML modeling diagrams a	0			
	•	diagrams which model system functional requirement	-			
	•	hich model aspects of the domain and the software				
	-	state machines that correctly model system behavior.	8			
Course	Credit		Prerequisite-Co-			
Number	Hours	Title of the Course	Requisite			
0113415	3	Simulation and Modeling	0113342			
The course g	ives an	introduction to modeling/simulation/analysis, with an	emphasis on the first two			
0		f the course include direct simulations of discrete-	1			
-		stic processes. There is a strong emphasis on applic				
using Arena.						
using Arena. Course	Credit		Prerequisite-Co-			
	Credit Hours	Title of the Course	Prerequisite-Co- Requisite			
Course			Prerequisite-Co- Requisite Visual Programming			
Course Number 0113427	Hours 3	Mobile Apps Development	Requisite Visual Programming			
Course Number 0113427 This course	Hours 3 gives ove	Mobile Apps Development erview about: Categories of Mobile Apps based of	Requisite Visual Programming on iOS, Mobile Operation			
Course Number 0113427 This course s Systems, and	Hours 3 gives ove Android	Mobile Apps Development erview about: Categories of Mobile Apps based of Applications. This course covers some topics relat	RequisiteVisual Programmingon iOS, Mobile Operationred to the interfaces design			
Course Number 0113427 This course Systems, and tools such as;	Hours 3 gives ove Android Table V	Mobile Apps Development erview about: Categories of Mobile Apps based of Applications. This course covers some topics relat iew, Collection View, Split View, Popovers. As we	RequisiteVisual Programmingon iOS, Mobile Operationed to the interfaces designell as, this course is focusing			
Course Number 0113427 This course Systems, and tools such as; on mobile app	Hours 3 gives ove Android Table V s program	Mobile Apps Development erview about: Categories of Mobile Apps based of Applications. This course covers some topics relat iew, Collection View, Split View, Popovers. As we ning based Android system, the web services, and XM	Requisite Visual Programming on iOS, Mobile Operation red to the interfaces design Il as, this course is focusing IL files.			
Course Number 0113427 This course Systems, and tools such as;	Hours 3 gives ove Android Table V	Mobile Apps Development erview about: Categories of Mobile Apps based of Applications. This course covers some topics relat iew, Collection View, Split View, Popovers. As we	RequisiteVisual Programmingon iOS, Mobile Operationed to the interfaces designell as, this course is focusing			
Course Number 0113427 This course g Systems, and tools such as; on mobile app Course Number	Hours 3 gives ove Android Table V s program Credit	Mobile Apps Development erview about: Categories of Mobile Apps based of Applications. This course covers some topics relat iew, Collection View, Split View, Popovers. As we ning based Android system, the web services, and XM Title of the Course	Requisite     Visual Programming     on iOS, Mobile Operation     ed to the interfaces design     ell as, this course is focusing     fL files.     Prerequisite-Co- Requisite			
Course Number 0113427 This course Systems, and tools such as; on mobile app Course Number 0113432	Hours 3 gives ove Android Table V s program Credit Hours 3	Mobile Apps Development       erview about: Categories of Mobile Apps based of Applications. This course covers some topics relative, Collection View, Split View, Popovers. As we based Android system, the web services, and XN       Title of the Course       Network Security	RequisiteVisual Programmingon iOS, Mobile Operationed to the interfaces designell as, this course is focusingIL files.Prerequisite-Co- RequisiteInformation Security			
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Course Number 0113427 This course g Systems, and tools such as; on mobile app Course Number 0113432 In this course attacks on m	Hours 3 gives ove Android Table V s program Credit Hours 3 , student obile, net	Mobile Apps Development       erview about: Categories of Mobile Apps based of Applications. This course covers some topics relative, Collection View, Split View, Popovers. As we hing based Android system, the web services, and XM       Title of the Course       Network Security       will learn the fundamental principle of network and work, and web site. Students will learn how those	Requisite     Visual Programming     on iOS, Mobile Operation     ed to the interfaces design     ell as, this course is focusing     files.     Prerequisite-Co- Requisite     Information Security     mobile security by studying     attacks work and how to			
Course Number 0113427 This course g Systems, and tools such as; on mobile app Course Number 0113432 In this course attacks on mo	Hours 3 gives ove Android Table V s program Credit Hours 3 , student obile, net letect the	Mobile Apps Development     erview about: Categories of Mobile Apps based of Applications. This course covers some topics relative, Collection View, Split View, Popovers. As we based Android system, the web services, and XN     Title of the Course     Network Security     will learn the fundamental principle of network and work, and web site. Students will learn how those em. This course will cover the design and analyze	Requisite     Visual Programming     on iOS, Mobile Operation     ed to the interfaces design     ell as, this course is focusing     IL files.     Prerequisite-Co- Requisite     Information Security     mobile security by studying     attacks work and how to     secure networked systems,			
Course Number 0113427 This course g Systems, and tools such as; on mobile app Course Number 0113432 In this course attacks on mo prevent and co develop secu	Hours 3 gives ove Android Table V s program Credit Hours 3 , student obile, net letect the re progr	Mobile Apps Development       erview about: Categories of Mobile Apps based of Applications. This course covers some topics relative, Collection View, Split View, Popovers. As we hing based Android system, the web services, and XM       Title of the Course       Network Security       will learn the fundamental principle of network and work, and web site. Students will learn how those em. This course will cover the design and analyze ams with basic cryptography, perform vulnerability	RequisiteVisual Programmingon iOS, Mobile Operationed to the interfaces designed to the interfacesed to the interfaces <t< td=""></t<>			
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Course Number 0113427 This course g Systems, and tools such as; on mobile app Course Number 0113432 In this course attacks on ma prevent and co develop secu networked sys	Hours 3 gives ove Android Table V s program Credit Hours 3 , student obile, net detect the re progr stems wit conduct a	Mobile Apps Development       erview about: Categories of Mobile Apps based of Applications. This course covers some topics relative, Collection View, Split View, Popovers. As we hing based Android system, the web services, and XM       Title of the Course       Network Security       will learn the fundamental principle of network and work, and web site. Students will learn how those em. This course will cover the design and analyze ams with basic cryptography, perform vulnerability	Requisite     Visual Programming     on iOS, Mobile Operation     ed to the interfaces design     ed to the interfaces design     ell as, this course is focusing     IL files.     Prerequisite-Co- Requisite     Information Security     mobile security by studying     attacks work and how to     secure networked systems,     lity scanning, and secure     ng by doing'', and requires     students can enhance their			
Course Number 0113427 This course g Systems, and tools such as; on mobile app Course Number 0113432 In this course attacks on ma prevent and co develop secu networked sys	Hours 3 gives ove Android Table V s program Credit Hours 3 , student obile, net detect the re progr stems wit conduct a	Mobile Apps Development       erview about: Categories of Mobile Apps based of Applications. This course covers some topics relatively. Collection View, Split View, Popovers. As we based Android system, the web services, and XN       Title of the Course       Network Security       will learn the fundamental principle of network and work, and web site. Students will learn how those em. This course will cover the design and analyze ams with basic cryptography, perform vulnerabil h Firewall and IDS. The course emphasizes "learning a series of lab exercises. Through these labs, seniciples, and be able to apply those principles to solve	Requisite     Visual Programming     on iOS, Mobile Operation     ed to the interfaces design     ed to the interfaces design     ell as, this course is focusing     IL files.     Prerequisite-Co- Requisite     Information Security     mobile security by studying     attacks work and how to     secure networked systems,     lity scanning, and secure     ng by doing", and requires     students can enhance their			
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Course Number 0113427 This course Systems, and tools such as; on mobile app Course Number 0113432 In this course attacks on mo prevent and co develop secur networked sys students to co understanding Course Number 0113456 Enterprise Res	Hours 3 gives ove Android Table V s program Credit Hours 3 , student obile, net letect the re progr stems wit conduct a of the pri Credit Hours 3 source Pl	Mobile Apps Development     erview about: Categories of Mobile Apps based of Applications. This course covers some topics relative, Collection View, Split View, Popovers. As we sing based Android system, the web services, and XN     Title of the Course     Network Security     will learn the fundamental principle of network and work, and web site. Students will learn how those em. This course will cover the design and analyze ams with basic cryptography, perform vulnerabil h Firewall and IDS. The course emphasizes "learning a series of lab exercises. Through these labs, series inciples, and be able to apply those principles to solve Title of the Course	Requisite     Visual Programming     on iOS, Mobile Operation     ed to the interfaces design     Editas, this course is focusing     Prerequisite-Co-Requisite     Mobile security by studying attacks work and how to secure networked systems,     lity scanning, and secure   ng by doing", and requires     etudents can enhance their     real problems.     Prerequisite-Co-Requisite     0113252     form the basis of Financial			





" عراقة وجودة" "Tradition and Quality"

Brief course description- Course Plan Development and Updating Procedures\ Computer Information Systems Department	QF01/0409-3.0E

relevant parties (customers, suppliers, employees and banks) through the Internet. This course will introduce students to these systems and demonstrate how organizations use these systems to run their operations more efficiently and effectively. Typical modules will be taught for Enterprise Systems: Materials Management (MM), Supply Chain Management (SCM), Customer Relationship Management (CRM), Finance and Human Resource Management (HRM). Enterprise Resource Planning (ERP) systems use a single database to integrate business transactions and across operations, leading to benefits such as efficient and error-free workflow as well as accounting and management reporting and improved decision-making.

Course	Credit	Title of the Course	Prerequisite-Co-	
Number	Hours		Requisite	
0113252	3	Business Information System	0113251	

This course covers the application of modern digital technologies in the business domain. Students acquire the skills and techniques to carry out an effective business analysis with a view to improving business operations through the application of business information systems. The course also enables students to gain an understanding of the role of business information systems in facilitating business transformation and implementing digital business models in increasingly competitive market environments. Units of study in this area cover business process integration, enterprise systems, information governance, and business transformation.

Approved by Department Council	Dr. Mohammad Alia	Date of Approval	26/10/2017
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