

جامعة الزيتونة الأردنية

Al-Zaytoonah University of Jordan

كلية العلوم وتكنولوجيا المعلومات

Faculty Of Science & IT



" حيث تصبح الرؤية واقعاً" "When Vision Becomes

" عراقة وجودة" Tradition and Quality

"When V1s1 Reality"	on Becon	nes		Tra	aditio	on and Quality	
	ourse descr		Development and Updating Proce ftware Engineering	edures	Q	PF01/0409-3.0E	
Faculty		Science & IT	Academic Department	Software Engineerin		Number of the	
Number of Major requirement courses		30 Date of plan approval		30/8/201	7	course plan (2017-2018)	
This form is ju	ust for the	major requirement	t courses				
Course number	Credit hours		Title of the course			Prerequisite-co- requisite	
0114211	3		Discrete Mathematics			Introduction to IT	
Exponents, H	Errors (ab	solute and relative	cs and specific applications in), Propositions Logic, Pred Methods of Proof, Sets, Rel	icates and Q	uantif	iers, Quantifier	
Course number	Credit hours		Title of the course		I	Prerequisite-co- requisite	
0114212	3		Data Structure			Object Oriented Programming	
Course	Credit	the real life appli	cations. Title of the course			Prerequisite-co-	
number 0114221	hours 3	(Desci Oriented Programming		I	requisite Principles of	
This course g	gains knov	l wledge about basi	c Java language syntax and	semantics to		Programming 9 Java program	
and use con understanding objects, invok	the functing metho	ich as variables, lamentals of obje	conditional and iterative ect-oriented programming in the main principles in OOP	execution m Java, includ	ethoc ling	ls etc. Beside defining classes	
Course number	Credit hours		Title of the course			Prerequisite-co- requisite	
0114222	3		Visual Programming			Object Oriented Programming	
forms to be us	ser friendly roblem fo	y and clear using or a program with	t forms by using the different the Integrated Development E having "Exception Handling".	Environment	(IDE)). It also solves	
Course number	Credit hours		Title of the course			Prerequisite-co- equisite	
0114231	3		Digital Logic Design			0114211	
			pics: the number systems and hary codes, Boolean Algebra				



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Brief course description- Course Plan Development and Updating Procedures	QF01/0409-3.0E
Department of Software Engineering	Q

method, Combinational circuits, MSI circuits, Sequential circuits, Registers and counters.						
Course	Credit	Title of the course	Prerequisite-co-			
number	hours		requisite			
0114252	3	Software Specifications and design	Software			
			Engineering			
			Principles			
This course w	vill provide	e invaluable information on how to write and structure requirem	ents, whilst			
explaining the	e importan	ce of Systems Engineering and the creation of effective solution	ns to problems.			
Course	Credit	Title of the course	Prerequisite-co-			
number	hours		requisite			
0114313	3	Algorithms	0114212			
	ims to intr	oduce the concepts of algorithm design and analysis. Its topics				
		lying summations and recurrences. Efficiency and complexity a				
U	-	hms. Binary trees. Hashing methods and solving collision in ha	•			
0,	0	, merge sort and quicksort. Graph terminology, representation a	0 1			
		uskal, Dijkstra and Floyd. Breadth-first and depth-first search.				
-		d dynamic programming techniques.	8			
Course	Credit	Title of the course	Prerequisite-co-			
number	hours		requisite			
0114423	3	Internet Application Programming	Web Design			
This course will cover the following topics which help student to build a strong website An introduction						
to ASP.NET programming, ASP Standard Server Control, Validation Control, transfer data between						
pages cookies, session and URL encoding, designing webpage using HTML, CSS and master pages,						
		T Controls and Security of website	, , , , , , , , , , , , , , , , , , ,			
Course	Credit	Title of the course	Prerequisite-co-			
number	hours		requisite			
114332	3	Computer Organization & Architecture	0114231			
	Computer architecture is concerned with computer design , organization , operating systems,					
-		her materials. This course introduces the following topics: Regi				
		circuit, Bus system, Simple computer architecture, Control unit,				
		tectures, Parallel processing, CISC and RISC computers, Mode				
-	-					
Course number	Credit	Title of the course	Prerequisite-co-			
	hours	$\mathbf{D} + 1$ (1)	requisite			
0114341	3	Database (1)	Data Structure			
	This course emphasis on database design methodology that is explicitly divided into three phases:					
conceptual, logical, and physical. This course focuses on an introduction to database systems design						
implementation and management issues, as well as an extensive treatment of database languages and						
standards.	0 "		D · ·			
Course	Credit	Title of the course	Prerequisite-co-			
number	hours		requisite			
0114343	3	Systems Analysis & Design	Software			
			Architecture			



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" عراقة وجودة" Tradition and Quality

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Drief	00100 00001	iption- Course Plan Development and Updating Procedures\ Department of Software Engineering	QF01/0409-3.0E				
This course is	a raflaction	of the presentie philosophy of software development as an anci	nooring dissipling. It				
This course is a reflection of the pragmatic philosophy of software development as an engineering discipline. It implements an object-oriented approach using UML methods to create software system. This course introduces							
the concepts of IBM Rational Rose tools to elaborate systems through software engineering diagrams							
Course	Credit	Title of the course	Prerequisite-co-				
number	hours	The of the course	requisite				
0114442	3	Database Management Systems	Database (1)				
The aim of the course is to introduce students to the current techniques, methods and results from the							
		se systems and data management. Typical topics include					
		n processing and concurrency control, database secu					
-		odels, systems, and applications such as data mining, d	•				
		ndexing, and hashing.	and warehousing and				
Course	Credit	Title of the course	Prerequisite-co-				
number	hours	The of the course	requisite				
0114251	3	Software Engineering Principles	0120117				
	e	an overview of the software engineering discipline, introd					
	1	and methods of software engineering. The course highlig	0				
		o software products by presenting the software development	F				
Course	1 1						
	Credit	Title of the course	Prerequisite-co-				
number	hours		requisite				
			0114051				
0114252	3	Software Specifications and design e invaluable information on how to write and structure requi	0114251 irements, whilst				
0114252 This course v explaining th	3 vill provide e importan	e invaluable information on how to write and structure requi ce of Systems Engineering and the creation of effective solu	rements, whilst utions to problems.				
0114252 This course v explaining th Course	3 vill provide e importan Credit	e invaluable information on how to write and structure requi	rements, whilst utions to problems. Prerequisite-co-				
0114252 This course v explaining th Course number	3 vill provide e importan Credit hours	e invaluable information on how to write and structure requi ce of Systems Engineering and the creation of effective solu Title of the course	Prerequisite-co- requisite				
0114252 This course v explaining th Course number 0114453	3 vill provide e importan Credit hours 3	e invaluable information on how to write and structure requi ce of Systems Engineering and the creation of effective solu Title of the course Software Testing	Prerequisite-co- requisite 0114343				
0114252 This course v explaining th Course number 0114453 This emphasia	3 vill provide e importan Credit hours 3 s course o	e invaluable information on how to write and structure requi ce of Systems Engineering and the creation of effective solu Title of the course Software Testing n software testing techniques to identify and resolve software	Prerequisite-co- requisite 0114343 re problems and				
0114252 This course v explaining th Course number 0114453 This emphasis high-risk issu	3 vill provide e important Credit hours 3 s course o es early in	e invaluable information on how to write and structure requi ce of Systems Engineering and the creation of effective solu Title of the course Software Testing n software testing techniques to identify and resolve software the software lifecycle. Applying software testing to all pha	Prerequisite-co- requisite 0114343 re problems and ses of the software				
0114252 This course v explaining th Course number 0114453 This emphasi high-risk issu development	3 vill provide e important Credit hours 3 s course o es early in lifecycle j	e invaluable information on how to write and structure requi ce of Systems Engineering and the creation of effective solu Title of the course Software Testing n software testing techniques to identify and resolve software the software lifecycle. Applying software testing to all pha process that includes planning, reporting, testing, auditing, re-	Prerequisite-co- requisite 0114343 re problems and ses of the software				
0114252 This course v explaining th Course number 0114453 This emphasi high-risk issu development techniques, a	3 vill provide e important Credit hours 3 s course o es early in lifecycle p nd related	e invaluable information on how to write and structure requi ce of Systems Engineering and the creation of effective solu Title of the course Software Testing n software testing techniques to identify and resolve software the software lifecycle. Applying software testing to all pha- process that includes planning, reporting, testing, auditing, re- testing tools.	Prerequisite-co- requisite 0114343 re problems and ses of the software eviewing, inspection				
0114252 This course v explaining th Course number 0114453 This emphasis high-risk issu development techniques, a Course	3 vill provide e important Credit hours 3 s course o es early in lifecycle p nd related Credit	e invaluable information on how to write and structure requi ce of Systems Engineering and the creation of effective solu Title of the course Software Testing n software testing techniques to identify and resolve software the software lifecycle. Applying software testing to all pha process that includes planning, reporting, testing, auditing, re-	Prerequisite-co- requisite 0114343 re problems and ses of the software eviewing, inspection Prerequisite-co-				
0114252 This course v explaining th Course number 0114453 This emphasia high-risk issu development techniques, a Course number	3 vill provide e important Credit hours 3 s course o es early in lifecycle p nd related Credit hours	e invaluable information on how to write and structure requi ce of Systems Engineering and the creation of effective solu Title of the course Software Testing n software testing techniques to identify and resolve software the software lifecycle. Applying software testing to all pha- process that includes planning, reporting, testing, auditing, re- testing tools. Title of the course	Prerequisite-co- requisite 0114343 re problems and ses of the software eviewing, inspection Prerequisite-co- requisite				
0114252 This course v explaining th Course number 0114453 This emphasis high-risk issu development techniques, a Course number 114354	3 vill provide e important Credit hours 3 s course o es early in lifecycle p nd related Credit hours 3	e invaluable information on how to write and structure requi ce of Systems Engineering and the creation of effective solu Title of the course Software Testing n software testing techniques to identify and resolve software the software lifecycle. Applying software testing to all pha process that includes planning, reporting, testing, auditing, re testing tools. Title of the course Software Architecture	Prerequisite-co- requisite 0114343 re problems and ses of the software eviewing, inspection Prerequisite-co- requisite 114252				
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0114252 This course v explaining th Course number 0114453 This emphasia high-risk issu development techniques, a Course number 114354 This course v Architecture	3 vill provide e important Credit hours 3 s course o es early in lifecycle p nd related Credit hours 3 vill introdu Design. Th	e invaluable information on how to write and structure requi ce of Systems Engineering and the creation of effective solu Title of the course Software Testing n software testing techniques to identify and resolve software the software lifecycle. Applying software testing to all pha process that includes planning, reporting, testing, auditing, re testing tools. Title of the course Software Architecture	Prerequisite-co- requisite 0114343 re problems and ses of the software eviewing, inspection Prerequisite-co- requisite 114252 pth the software				
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0114252 This course v explaining th Course number 0114453 This emphasia high-risk issu development techniques, a Course number 114354 This course v Architecture Documenting	3 vill provide e important Credit hours 3 s course o es early in lifecycle p nd related Credit hours 3 vill introdu Design. Th	e invaluable information on how to write and structure requi ce of Systems Engineering and the creation of effective solu Title of the course Software Testing n software testing techniques to identify and resolve software the software lifecycle. Applying software testing to all pha- process that includes planning, reporting, testing, auditing, re- testing tools. Title of the course Software Architecture ce the software design in general. Then it will discuss in de ne course will include: Architecture Design Process, Design	Prerequisite-co- requisite 0114343 re problems and ses of the software eviewing, inspection Prerequisite-co- requisite 114252 pth the software Patterns, and Design				
0114252 This course wexplaining the Course number 0114453 This emphasic high-risk issue development techniques, a Course number 114354 This course we Architecture Documenting	3 vill provide e important Credit hours 3 s course o es early in lifecycle µ nd related Credit hours 3 vill introdu Design. Th Credit	e invaluable information on how to write and structure requi ce of Systems Engineering and the creation of effective solu Title of the course Software Testing n software testing techniques to identify and resolve software the software lifecycle. Applying software testing to all pha- process that includes planning, reporting, testing, auditing, re- testing tools. Title of the course Software Architecture ce the software design in general. Then it will discuss in de	Prerequisite-co- requisite 0114343 re problems and ses of the software eviewing, inspection Prerequisite-co- requisite 114252 pth the software Patterns, and Design Prerequisite-co-				
0114252 This course v explaining th Course number 0114453 This emphasis high-risk issu development techniques, a Course number 114354 This course v Architecture Documenting Course number	3 vill provide e important Credit hours 3 s course o es early in lifecycle p nd related Credit hours 3 vill introdu Design. Th Credit hours	e invaluable information on how to write and structure requi ce of Systems Engineering and the creation of effective solu Title of the course Software Testing n software testing techniques to identify and resolve software the software lifecycle. Applying software testing to all pha process that includes planning, reporting, testing, auditing, re- testing tools. Title of the course Software Architecture ce the software design in general. Then it will discuss in de ne course will include: Architecture Design Process, Design Title of the course	rements, whilst utions to problems. Prerequisite-co- requisite 0114343 re problems and ses of the software eviewing, inspection Prerequisite-co- requisite 114252 pth the software Patterns, and Design Prerequisite-co- requisite				
0114252 This course were were a course of the course of th	3 vill provide e important Credit hours 3 s course o es early in lifecycle p nd related Credit hours 3 vill introdu Design. Th Credit hours 3 vill introdu Design. Th	e invaluable information on how to write and structure requi ce of Systems Engineering and the creation of effective sole Title of the course Software Testing n software testing techniques to identify and resolve software the software lifecycle. Applying software testing to all pha process that includes planning, reporting, testing, auditing, re testing tools. Title of the course Software Architecture ce the software design in general. Then it will discuss in de ne course will include: Architecture Design Process, Design Title of the course Software Development and Documentation	irements, whilst ations to problems. Prerequisite-co-requisite 0114343 re problems and ses of the software eviewing, inspection Prerequisite-co-requisite 114252 pth the software Patterns, and Design Prerequisite-co-requisite 0114252				
0114252 This course wexplaining the Course number 0114453 This emphasic high-risk issue development techniques, a Course number 114354 This course we Architecture Documenting Course number 0114455 This course	3 vill provide e important Credit hours 3 s course o es early in lifecycle µ nd related Credit hours 3 vill introdu Design. The Credit hours 3 vill introdu January Introdu January January	e invaluable information on how to write and structure requi ce of Systems Engineering and the creation of effective solu Title of the course Software Testing n software testing techniques to identify and resolve software the software lifecycle. Applying software testing to all pha process that includes planning, reporting, testing, auditing, re- testing tools. Title of the course Software Architecture ce the software design in general. Then it will discuss in de ne course will include: Architecture Design Process, Design Title of the course Software Development and Documentation d to teach fundamental software development concepts an	Prerequisite-co- requisite 0114343 re problems and ses of the software eviewing, inspection Prerequisite-co- requisite 114252 pth the software Patterns, and Design Prerequisite-co- requisite 0114252 nd techniques for the				
0114252 This course v explaining th Course number 0114453 This emphasis high-risk issu development techniques, a Course number 114354 This course v Architecture Documenting Course number 0114455 This course construction	3 vill provide e important Credit hours 3 s course o es early in lifecycle p nd related Credit hours 3 vill introdu Design. Th Credit hours 3 vill introdu Design. Th Credit hours 3 is intendee of softward	e invaluable information on how to write and structure requi ce of Systems Engineering and the creation of effective sole Title of the course Software Testing n software testing techniques to identify and resolve software the software lifecycle. Applying software testing to all pha process that includes planning, reporting, testing, auditing, re- testing tools. Title of the course Software Architecture ce the software design in general. Then it will discuss in de ne course will include: Architecture Design Process, Design Title of the course Software Development and Documentation d to teach fundamental software development concepts ar- re systems. The course focus is on software impleme	Prerequisite-co- requisite 0114343 re problems and ses of the software eviewing, inspection Prerequisite-co- requisite 114252 pth the software Patterns, and Design Prerequisite-co- requisite 0114252 nd techniques for the ntation, covering the				
0114252 This course v explaining th Course number 0114453 This emphasia high-risk issu development techniques, a Course number 114354 This course v Architecture Documenting Course number 0114455 This course construction following top	3 vill provide e important Credit hours 3 s course o es early in lifecycle p nd related Credit hours 3 vill introdu Design. Th Credit hours 3 vill introdu Design. Th	e invaluable information on how to write and structure requi ce of Systems Engineering and the creation of effective solu Title of the course Software Testing n software testing techniques to identify and resolve software the software lifecycle. Applying software testing to all pha process that includes planning, reporting, testing, auditing, re- testing tools. Title of the course Software Architecture ce the software design in general. Then it will discuss in de ne course will include: Architecture Design Process, Design Title of the course Software Development and Documentation d to teach fundamental software development concepts an	Prerequisite-co- requisite 0114343 re problems and ses of the software eviewing, inspection Prerequisite-co- requisite 114252 pth the software Patterns, and Design Prerequisite-co- requisite 0114252 nd techniques for the ntation, covering the perceptions, mapping				



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Brief course description- Course Plan Development and Updating Procedures

Department of Software Engineering



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using Java API Documentation Generator. Course Credit Title of the course Prerequisite-conumber hours requisite 0114456 3 0114453 Software project management Software project management is concerned with the knowledge of planning, organization, and monitoring of all software life-cycle phases. Software management ensures software development to an organization in software versions and configurations. Project work is divided appropriately, communication is facilitated, and progress is accurately charted. Course Credit Title of the course Prerequisite-conumber hours requisite 0114252 01114357 3 Software Economics This course will cover the following topics Introduction to software engineering, Life Cycle software and economics, Risk and Uncertainty, Economic Analysis Methods and Practical Considerations Course Credit Title of the course Prerequisite-conumber hours requisite 0114458 3 Software Quality Management 0114453 This course defines the quality of the software, the foundations of quality measurement system, quality management, assurance of quality, planning, quality of product and process quality, software product

metrics, management of the quality factors of the software and its effectiveness, global scale ISO 9001, check the software and plans and techniques for quality

Course	Credit	Title of the course	Prerequisite-co-
number	hours		requisite
0104381	3	Human Computer Interaction	0104241

The Human Computer Interaction (HCI) aims at improving the interactions between users and computers by making computers more usable and receptive to the user's needs. This course is concerned with methodologies and processes for designing interfaces even if they are Software or Hardware Interfaces (i.e., design the best possible interface within given constraints, optimizing for a desired property such as learning ability or efficiency of use), techniques for evaluating and comparing interfaces, developing new interfaces and interaction techniques, and developing descriptive & predictive models & theories of interaction. In addition to the measurements functional and nonfunctional requirements of interactivity in HCI quality for standardization such as flexibility, learnability)

Course	Credit	Title of the course	Prerequisite-co-		
number	hours		requisite		
0114471	1	Software Documentation Techniques	0114455		
This course will focus on The main objective of this course is to provide students with a broad					
perspective on software Documentation, and explain the task orientation process and how you break the					
project to small tasks, and how to construct a task list from a project					
Course	Credit	Title of the course	Prerequisite-co-		
number	hours		requisite		



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Reality'' Brief co	ourse descr	iption- Course Plan Development and Updating Procedures	QF01/0409-3.0E			
		Department of Software Engineering	Q101/0407-5.0E			
0114459	3	Software Modeling and Analysis	0114354			
This course co	This course covers software modeling, architecture, design, and implementation using diagramming,					
analysis tools,	and com	mon-sense engineering methods to analyze performance of con	current, message-			
driven systems	3					
Course	Credit	Title of the course	Prerequisite-co-			
number	hours		requisite			
0114482	3	Selected Topics in S.E. (1)	Database			
Tarana da Jaran	I	for Andreid derive Teters interderer to And				
		own apps for your Android device. Let us introduce you to And you a solid foundation so you can imagine, design, create and				
		over the major Android topics such as Views, Activities, Intents				
••		Providers. It will also cover Location-based services, Sensors				
Deployment.	. Content	Trovacis. It will also cover Location based services, Sensors				
Course	Credit	Title of the course	Prerequisite-co-			
number	hours		requisite			
0114483	3	Selected Topics in S.E.2	Database			
Brief descripti	on	· · · · ·				
This course is	aimed at	developers who want to build Java EE applications using Orac	cle ADF. Learn to			
use Oracle J	Developer	11g Release 1 Patch Set 1 to build, test and deploy an	end-to-end web			
		pplication development in your organization to increase pro	•			
		ing Java EE applications using Oracle ADF (innovative yet	mature Java EE			
		() and deploy an end-to-end web application				
Course	Credit	Title of the course	Prerequisite-co-			
number	hours		requisite			
0114484 3 Mobile Application Programming Database						
		own apps for your Android device. Let us introduce you to And you a solid foundation so you can imagine, design, create and				
	200	over the major Android topics such as Views, Activities, Intents,				
		Providers. It will also cover Location-based services, Sensors				
Deployment.		Trovicers. It will also cover Location based services, Sensors	and App			
Course	Credit	Title of the course	Prerequisite-co-			
number	hours		requisite			
0114485	3	Enterprise resource planning (ERP)	0114343			
This course is	This course is about enterprise resource planning (ERP) systems. It is also about how a business works					
and how information systems fit into business operations. It explains basic concepts of ERP systems,						
ERP systems' implementation, ERP systems in Action, the business modules, and market of ERP						
systems.						
Course	Credit	Title of the course	Prerequisite-co-			
number	hours		requisite			
0114486	3	Software Configuration Management	0114343			
	• 3	Management (SCM) is required to control evolving and	., .,			
systems. This course will introduces the basic concepts of software configuration management, the						
importance of SCM in software development, the different SCM phases and activities, branching,						
release management, configuration management roles, CASE tools used in SCM industry						



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Course	Course Credit Title of the course Prerequisite-co-					
number hours		requisite				
0114487	3	Artificial Intelligence	0114343			
	e					
		the basic principles in artificial intelligence. It covers simple r				
		ng paradigms, constraint propagation, and search strategies. A				
		esentation, natural language processing, expert systems, vision	and robotics are			
		G programming language is also introduced.	Due un anticita de la			
Course	Credit	Title of the course	Prerequisite-co-			
number	hours		requisite			
0114488	3	E-Business development	0114222			
-	This course provides an overview of e-business from both technological and managerial perspectives. It					
	introduces e-commerce frameworks, and technological foundations; and examines basic concepts such					
as strategic formulation for e-commerce enterprises, management of their capital structures and public						
policy. This course is designed to familiarize students with current and emerging electronic commerce						
		Internet. Topics include Internet technology for business a				
		unds transfer, reinventing the future of business through el				
business opportunities in electronic commerce, electronic commerce Web site design, social, and						
political. It is particularly important that the student place a great deal of emphasis in understanding the						
ASP.NET for	-					
Course	Credit	Title of the course	Prerequisite-co-			
number	hours		requisite			
0114489	3	Software Reengineering & Maintenance	0114455			
This course in	This course introduces the concepts of software re-engineering and its phases, includes legacy systems					
re-engineering to enhance the maintenance process, and presents the different cost-effective methods to						
maintain software products. This course covers the concepts of the software reversal engineering, and						
how to use the CASE tools during the maintenance process						

Approved by	Dr.Ahmad Abdallah Althunibat	Date of approval	21/11/2017
department council			