



Course Weekly Outline

Course Name: Compiler

Course Instructor	Sumaya Abdulla Hamad				
E-mail	sumay_1980@yahoo.com				
Title	Asst. Teacher				
Course Coordinator	Sumaya Abdulla Hamad				
Course Objective	<p>A. Definition of how to build and design of programming languages by looking at the work of the translator techniques and how to build it</p> <p>B. Training students to design and build programming languages through the implementation of some stages of the translator in the practical side</p> <p>C. Accommodate the student how the data is stored within the memory process through simulation methods of storage</p> <p>D. Increase the possibility of student programming by giving him examples of different issues within the limits set</p>				
Course Description	<p>1 - To distinguish between the types of algorithms of Compiler</p> <p>2 - Determine the best algorithm for designing compiler</p> <p>3 - The language used components to convert any algorithm to the interpreter program</p> <p>4- Determine the evolution in the field of design compilers and programming languages</p> <p>5- Distinction between the types of translators by knowing the the input and output of the compiler</p> <p>6- Take collective project to design and build compiler for some simple programming languages proposed</p>				
Textbook	Compilers Principles, Techniques, and Tools , Aho Law, Addison Wesley				
References	Basics of Compiler Design, T. Mogensen, Copenhagen Uni.				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	30%	15%	5%	-	50%
General Notes					



Course Weekly Outline

Week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1	3/10/2015	Introduction to Programming Languages	files	/
2	10/10/2015	Introduction to Translators & Compilation Concepts	files	/
3	17/10/2015	Lexical Analysis – Scanner	TokenType	/
4	24/10/2015	Finite Automata	TokenType	/
5	31/10/2015	Symbol Table	TokenType	/
6	7/11/2015	Symbol Table	TokenType	/
7	14/11/2015	Syntax Analysis – parser	Left_Recursive	/
8	21/11/2015	Context Free Grammar	Left_Recursive	/
9	28/11/2015	Ambiguity-Left Recursive-Left Factoring	Left_Recursive	/
10	5/12/2015	First & Follow	Left_Recursive	/
11	12/12/2015	Top-Down Parsing	Left_Factoring	/
12	19/12/2015	LL(1) Grammar	Left_Factoring	/
13	26/12/2015	Bottom – Up parsing	Left_Factoring	/
14	2/1/2016	LR – Parsers	Left_Factoring	/
15	9/1/2016	Semantic Analysis – Type Checking	Left_Factoring	/

Instructor Signature:

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Course Weekly Outline

Course Name : Communications and Networks Fundamentals

Course Instructor	Dr. Salah Awad Salman				
E-mail	Salah_eng1996@yahoo.com				
Title	3107:Communications and Networks Fundamentals – CS 3214:Computer Networks I - IS				
Course Coordinator	-				
Course Objective	<p>The students will be able to:</p> <ol style="list-style-type: none"> 1. Build an understanding of the fundamental concepts of computer networking. 2. Familiarize the student with the basic taxonomy and terminology of the computer networking area. 3. Introduce the student to advanced networking concepts, preparing the student for entry Advanced courses in computer networking. 4. Allow the student to gain expertise in some specific areas of networking such as the design and maintenance of individual networks. 				
Course Description	<p>This course is to provide students with an overview of the concepts and fundamentals of data communication and computer networks. Topics to be covered include: data communication concepts and techniques in a layered network architecture, communications switching and routing, types of communication, network congestion, network topologies, network configuration and Management, network model components, layered network models (OSI reference model, TCP/IP networking architecture) and their protocols, various types of networks (LAN, MAN, WAN and Wireless networks) and their protocols.</p>				
Textbook	Data Communications and Networking, 3, 4 /e, Behrouz A Forouzan				
References	Computer Networks, Fourth Edition, Andrew S. Tanenbaum.				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	25	15	10	-	50
General Notes	The course is supplemented by a practical component				



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Week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1		PART 1: Overview: Chapter: 1 Introduction 1.1 DATA COMMUNICATIONS Components, Data Representation, Data Flow	Lab1: Comm. Sys.	
2-3		1.2 NETWORKS Distributed Processing , Network Criteria, Physical Structures, Network Components: NIC, Repeater HUB, Bridge, Router, BRouter, GATEWAY	Lab2: Simulator :Comm. Sys.	
4-5		1.2 NETWORKS Network Models, Categories of Networks, Network Classification, LAN, MAN and WAN Network topologies: Mesh, Star, Bus and Ring, the advantages and disadvantages of each topology. Interconnection of Networks: Internetwork	Lab2: Simulator :Comm. Sys	
6		1.3 THE INTERNET A Brief History, The Internet Today 1.4 PROTOCOLS AND STANDARDS Protocols , Standards, Standards Organizations, Internet Standards	Lab3:Network Components	
7-9		Chapter: 2 Network Models 2.1 LAYERED TASKS Sender, Receiver, and Carrier , Hierarchy 2.2 THE OSI MODEL Layered Architecture, Peer-to-Peer Processes, Encapsulation 2.2.1 LAYERS IN THE OSI MODEL Physical Layer, Data Link Layer, Network Layer, Transport Layer, Session Layer, Presentation Layer, Application Layer, Summary of Layers	Lab3:Network Components	
10-11		2.3 TCP/IP PROTOCOL SUITE Physical and Data Link Layers, Network Layer Transport Layer, Application Layer	Lab4:Network Topology	
12		2.4 ADDRESSING Physical Addresses, Logical Addresses, Port Addresses , Specific Addresses	Lab4:Network Topology	
13-14		PART 2: Physical Layer and Media Chapter : 3 Data and Signals 3.1 ANALOG AND DIGITAL Analog and Digital Data, Analog and Digital Signals, Periodic and Non-periodic Signals 3.2 PERIODIC ANALOG SIGNALS Sine Wave, Phase, Wavelength, Time and Frequency Domains, Composite Signals, Bandwidth 3.3 DIGITAL SIGNALS Bit Rate, Bit Length, Digital Signal as a Composite Analog Signal, Transmission of Digital Signals	Lab4:Network Topology	
15		3.4 TRANSMISSION IMPAIRMENT Attenuation , Distortion, Noise 3.4.1 DATA RATE LIMITS Noiseless Channel: Nyquist Bit Rate, Noisy Channel: Shannon Capacity, Using Both Limits	Lab5:Cabling	
16		Chapter: 4 Transmission Media 4.1 GUIDED MEDIA Twisted-Pair Cable, Coaxial Cable, Fiber-Optic Cable 4.2 UNGUIDED MEDIA: WIRELESS Radio Waves, Microwaves, Infrared	Lab5:Cabling	

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Course Weekly Outline of Management Information Systems

Week	Date	Topics Covered	Lab. Experiment Assignment	Notes
١	٢٠١٥/9/18	What Management Information Systems	-	Chapter1
٢	٢٠١٥/9/25	Transforming Data into Information	-	Chapter1
٣	٢٠١٥/10/2	People Aspects of Systems Development	-	Chapter2
٤	٢٠١٥/10/9	How IS Affects You	-	Chapter3
٥	٢٠١٥/10/16	Business Support Systems.	-	Chapter3
٦	٢٠١٥/10/23	Applications at Different Management Levels	-	Chapter4
٧	٢٠١٥/10/30	Strategic Systems	-	Chapter4
٨	٢٠١٥/11/6	Intelligent Systems	-	Chapter5
٩	٢٠١٥/11/13	E-Commerce	-	Chapter6
١٠	٢٠١٥/11/20	Systems Development Life Cycle	-	Chapter7
١١	٢٠١٥/11/27	Development of Structured Methodologies		Chapter8
١٢	٢٠١٥/12/4	Alternative approaches to developing systems	-	Chapter9
١٣	٢٠١٥/12/11	Project Management	-	Chapter10
14	٢٠١٥/12/18	People Aspects of Systems Development	-	Chapter11
15	٢٠١٥/12/25	The Decision-Making Process	-	Chapter11
١٦	٢٠١٦/1/5	<u>First Examination</u>	-	
Year Break				

Instructor Signature:

Head Signature:



Course Weekly Outline

Course Instructor	Dr. Raed Ibraheem Hamed				
E-mail	Raed_inf@yahoo.com				
Title	Management Information Systems				
Course Coordinator					
Course Objective	It involves planning, design, development, testing, implementation, operations coordination, and maintenance for automated systems and business application enterprise systems development that integrate hardware, software, and communication technologies .				
Course Description	Management Information Systems includes the development and integration, system and application engineering and technical support to improve the automated systems and agency-wide applications of an organization.				
Textbook	No				
References	Book Title: Management Information Systems: Managing the Digital Firm (14th Edition) ISBN-13: 978-0132142854 Year Published: 2012 Pages: 672 Book Title: Developments in Power Communications Systems ISBN : 978-1-4244-4041-2 Year Published: 2003 Pages: 159				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	30%		10%	-	60%
General Notes					

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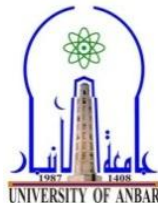
Head Signature:



Course Weekly Outline

Course Name : Project Management

Course Instructor	Dr. Raed Ibraheem Hamed				
E-mail	Raed_inf@yahoo.com				
Title	Project Management				
Course Coordinator					
Course Objective	It involves planning, design, development, testing, implementation, operations coordination, and maintenance for automated systems and business application software that integrate hardware, software, and communication technologies .				
Course Description	Project Management includes the development and integration, system and application project and technical support to improve the automated systems and agency-wide applications of an organization.				
Textbook	The Fast Forward MBA in Project Management, 2011,				
References	Book Title: Developments in Power Communications Systems ISBN : 978-1-4244-4041-2 Year Published: 2003 Pages: 159				
Course Assessments	TermTests	Laboratory	Quizzes	Project	Final Exam
	60%	-	10%		30%
General Notes					



Course Weekly Outline

Week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1	18/9/٢٠١٥	What is Project Management		Chapter 1
2	25 /9/٢٠١٥	A Structured Project Management Methodology		Chapter 1
3	2/10/٢٠١٥	Waterfall Development, Parallel Development and Phased Development		Chapter 2
4	9/10//٢٠١٥	Types of Information Systems Management		Chapter 3
5	16/10/٢٠١٥	Transaction Processing Systems and Management Information Systems		Chapter 3
6	23/10/٢٠١٥	Decision Support Systems and Executive Information Systems		Chapter 4
7	30/10//٢٠١٥	Strategic Project Management Common Elements Systems		Chapter 4
8	6/11//٢٠١٥	The Stages of a Project Management		Chapter 5
9	13/11//٢٠١٥	Why Should We Manage Projects?		Chapter 6
10	20/11 /٢٠١٥	Systems Development Life Cycle		Chapter 7
11	27/11//٢٠١٥	What is a design methodology of Project Management?		Chapter 8
12	4/12 / ٢٠١٥	Phases of project Design		Chapter 9
13	11/12/٢٠١٥	Goals for the Design of a Project.		Chapter 10
14	18/12/٢٠١٥	Developing Enterprise Systems with Intelligent Agent Technology		Chapter 11
15	25/12//٢٠١٥	A full-lifecycle solution development process and An intelligent agent can:		Chapter 11

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