

المملكة العربية السعودية حامعة اللك سعود

وكالة الجامعة للشؤون التعليمية والأكاديمية إدارة الخطط والبرامج الدراسية

خطة المقرر Module Syllabus

Course: Computer Programming 1

Course Number and Code: COMP 2301

Prerequisite:

Course Teaching Language: English

Course Level: 3

Credit Hours: 2+1

Course Description

This course introduces Java programming concepts which emphasis on object-oriented programming approach. Topics include structure of Java programs, constants, variables, data types and declarations, operators, expressions, and control structures, functions and recursion, arrays.

Course Objectives

Provide Students with the knowledge about developing problems computerized solutions to particular problems.

Provide Students with the knowledge about problems analysis

Provide Students with the knowledge about problems solutions designs

Provide Students with the knowledge about executing problems solutions





Topic		Contact hours
Introduction to Java Application	2	8
Introduction to Java Applets	2	8
Control Structures - if, ifelse, while repetition structures	3	12
Control Structures - for, dowhile, switch, break, continue, logical operators	3	12
Methods	2	8
Arrays	2	8

Book references

Book name	Authors	Publisher	Year
Java how to program	Deitel & Deitel	Prentice Hall	2011



July 2000

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خطة المقرر Module Syllabus

Course: Principles to Database Systems

Course Number and Code: COMP 2302

Prerequisite: CT1201

Course Teaching Language: English

Course Level: 3

Credit Hours: 3+0

Course Description

This course provides students with a comprehensive introduction to database concepts and database management systems. Principles and methodologies of database design, and techniques for database application development. Primary focus is on the relational model of database management and querying databases using Structured Query Language (SQL)

Course Objectives

Provide the student with the skills set and the basic instructions for database systems

Learn ways to design relational databases.

Using Structured Query Language (SQL).

Topics to be covered

Topic	No of Weeks	Contact hours
Fundamentals of Database Management Systems	1	4
Basic concepts and terminology	1	4

characteristics of the database approach, the three level-schema architecture and data independence	ì	4
The Entity Relationship Model (notations and concepts) (ER)	2	8
Enhanced Entity Relationship Model (EER)	1	4
The Relational Data Model and Relational Database Constraints	1	4
Relational Database Design by ER- and EER-to-Relational Mapping	1	4
Introduction to SQL standard	2	8
SQL, SQL*Plus	2	8
[SQL Lab]	3	12

Book references

Book name	Authors	Publisher	Year
Fundamentals of Database Systems	Elmasri & Navathe	Addison-Wesley Pearson	2010



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خطة المقرر Module Syllabus

Course: Operating Systems

Course Number and Code; COMP 2303

Prerequisite: CT1201

Course Teaching Language: English

Course Level: 3

Credit Hours: 2+1

Course Description

The course provides the theoretical knowledge of operating system. It also includes the practical skills to work within Linux and Windows operating systems

Course Objectives

Theoretical objectives

Identify the types of operating systems.

Identify the services provided by the operating systems for users.

Identify the interfaces through which user can interact with the operating system.

Identify the different ways to build the operating system.

Identify the process concept.

Identify the algorithms used for processor scheduling.

Identify the ways to manage memory and virtual memory.

Identify the file system.

Experimental objectives

Proficiency under the Linux operating system through the study of:

- GNOME Desktop





- Desktop Sessions
- Using the Panels
- Using the main Menubar.
- Working with Files.
- Tools and Utilities.
- Control center.

Proficiency under the Windows operating system through the study of:

- -Windows Desktop.
- start menu and its characteristics.
- Windows Explorer.
- File Management.
- Viruses.
- Printer Management.
- Control Panel.

Topics to be covered

Topic		Contact	
Types of operating systems.		4	
The operating system services, operating system interfaces, operating system architecture.	2	4	
Process management, CPU scheduling	4	8	
Memory management, Secondary storage management	4	8	
File management	2	4	
Experimental study (Linux Operating System)			
Genome desktop.	1	2	
Desktop Sessions.	- 1	2	
Using the Panels.	- 1	2	
Using the main Menubar.	1	2	
Working with files.	1	2	
Tools and Utilities.	1	2	
Configuring Desktop.	1	2	

Book references

Book name	Authors	Publisher	Year
Operating system concepts, , 5 th Edition	Peter B. Galvin & Silberschatz	Addison Wesley	2006



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خطة المقرر Module Syllabus

Course: Computer Skills (2)

Course Number and Code: CT 2306

Prerequisite: CT1201

Course Teaching Language: English

Course Level: 3

Credit Hours: 2+1

Course Description

The course introduce the basics for computer users through basic software applications as file management, Word processing, spread sheets, Presentations, database, communications.

Course Objectives

Introduce students to the basic concepts of computer and the role of information technology in community development

Provide credited Skills in the field of computers qualify students for integration in the information society.

Raise the level of efficiency in the use of computers and general applications to all students in all specializations.

Giving the student the basic skills they need in the use of computers in a global standard

Equip students with the basic skills necessary to pass the choices adopted for the International Computer Driving





Topic	No of Weeks	Contact hours
Information Technology Concepts	2	4
File Management and Computer Usage	2	4
Word Processing	2	4
Worksheets	3	6
Databases (ACCESS)	2	4
PowerPoint Presentation	2	4
Information and Communications	1	2

Book references

Book name	Authors	Publisher	Year
Licensed ECDL/ICDL material	Licensed ECDL/ICDL material	Licensed ECDL/ICDL material	2010



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خطة المقرر Module Syllabus

Course: Internet Programming

Course Number and Code: COMP2401

Prerequisite: COMP2301

Course Teaching Language: English

Course Level: 4

Credit Hours: 2+1

Course Description

This course provides students with the fundamentals of web page design and web site development using HTML and Microsoft Expression Web. The course covers the necessary knowledge for developing dynamic web pages and web applications with database connectivity using PHP and MYSQL.

Course Objectives

Develop necessary skills to design and create web page and websites.

Provide basics for creating CSS for web pages.

Provide an understanding of using and configuring web server.

Provide basics for publishing files on the www and managing web sites.

Provide necessary skills for building dynamic and interactive web pages.

Provide basics for building web application with database connectivity.





		hours
Designing web pages using HTML: page formatting, Advanced page formatting, web graphics and hyperlinks.	3	12
Tables, Frames, Forms and CSS.	2	8
Using Microsoft Front page for creating web sites and designing web pages	3	12
Web server installation and configuration, publishing web sites	0.5	2
Programming with php: variables, numbers, constants, strings, conditionals and operators, arrays, loops	1	4
Creating dynamic web sites	1	4
Creating and administrating Database using MYSQL	1	4
Using php with MYSQL	0.5	2
Web application development and examples	2	- 8

Book references

Book name	Authors	Publisher	Year
HTML, XHTML & CSS Quick steps	GUY HEART & Davis	McGraw-Hill	2010
PHP 6 and MySQL 5 for Dynamic Web Sites	Larry Ullman	Peachpit Press	2009





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خطة المقرر Module Syllabus

Course: Computer Programming (2)

Course Number and Code: COMP2402

Prerequisite: COMP2301

Course Teaching Language: English

Course Level: 4

Credit Hours: 2+1

Course Description

This course covers the object oriented programming concepts – classes, objects, scopes, controlling access to members, constructors. Discuss the inheritance – superclass, subclass, protected members, polymorphism, and encapsulation.

Course Objectives

- To understand the notions of data abstraction and abstract data types (ADTs).
- To understand inheritance which is a form of software reuse in which classes are created from existing classes.
- To understand the concept of polymorphism that makes system extensible and maintainable.
- To understand the string- and character-processing capabilities
- To understand the graphics context and graphics objects and to manipulate colors & fonts.
- To understand the packages containing GUI-related components, even-handling classes and interfaces.
- To understand the Java streams class hierarchy to create, read, write and update files.

Topic	No of Weeks	Contact
Revision – Java Applications, Java applets, Control Structures, Methods & Arrays	2	8
Object-Based Programming	1	4
Object-Oriented Programming: Inheritance	1	4
Object-Oriented Programming: Polymorphism	1	4
Strings and Characters	2	8
Graphics and Java2D	3	12
Graphical User Interface Components	3	12
Files and Streams	1	4

Book references

Book name	Authors	Publisher	Year
JAVA - HOW TO	-H. M. DEITEL	Prentice Hall	2010
PROGRAM	-P. J. DEITEL	Publication	



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خطة المقرر Module Syllabus

Course: Systems Analysis

Course Number and Code: COMP2403

Prerequisite: COMP2302

Course Teaching Language: English

Course Level: 4

Credit Hours: 2+1

Course Description

This course introduces the students the role of the systems analyst in the development of information system for organizations. The systems analyst is a problem solver. As such, this module emphasizes development of effective solutions and communicating those solutions to the development team. Use of accepted design techniques, project management approaches, written and verbal communication, collaboration and teamwork, and organizational tools prepares the learner for the many demands of an entry-level systems analyst.

Course Objectives

Describe the different types of Information Systems

Describe the information systems development life cycle (SDLC)

Discuss the analytical, technical, management, and interpersonal skill of a system analyst

Describe the role of CASE tools and how they are used to support activities of SDLC

Discuss the system requirements determination methods

Understanding the logical modeling of processes by studying Data Flow Diagrams (DFDs)

Understand the use of Structured English, Decision Trees and Decision Tables for

representing the steps in logical processes in Data Flow Diagrams

Drawing Entity-Relationship (E-R) diagram to represent common business solutions

Topics to be covered

Topic	No of Weeks	Contact hours
Chapter 1: Define Information System Analysis & Design; Components of Information System – Data, Data Flow, Processing Logic; Process-oriented and data-oriented approach, Types of Information Systems, Systems Development Life Cycle (SDLC)	1	3
Chapter 2: Skills of System Analyst – Analytical, Technical, Management, Interpersonal; Definition of system and its parts; Important system components-open & closed system, modularity, coupling, cohesion;	1	3
Chapter 3: Project Manager, Project, Project Management Process – Initiation, Planning, Execution, Closing; PERT and Gantt Charts	1	3
Chapter 4: Use of Computer-Aided Software Engineering (CASE), Components of CASE – Diagramming Tools, Form and Report Generator tools, Analysis Tools, Documentation and Code Generation Tools	î	3
Chapter 5: Project Identification and Selection Process Chapter 6: Project Initiation and Project Planning	2	6
Chapter 6: Assessing Project Feasibility – Economic, Technical, Operational, Schedule, Legal and contractual, Political; Tangible & Intangible Benefits and Costs	1	3
Chapter 7: Determining System requirements – Interviewing & Listening, Questionnaires, Observing users, Analyzing procedures and documents; Joint Application Design (JAD),	1	3
Chapter 8: Process Modeling: Data Flow Diagrams (DFD) – Definitions and symbols, Rules, Decomposition, Balancing	2	6
Chapter 8: Data Flow Diagrams (DFD) - Decomposition, Balancing	1	3
Chapter 9: Logic Modeling: Structured English, Decision Tables, Decision Trees, Comparison	1	3
Chapter 10: Conceptual Data Modeling: E-R Modeling – entities, attributes, relationships, candidate keys, identifiers	2	6

Book references

Book name	Authors	Publisher	Year
Modern Systems Analysis & Design, 3rd edition,	Jefferey A. Hoffer, Joey F. George, Joseph S. Valacich	Prentice Hall Publication	2010





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خطة المقرر Module Syllabus

Course: Database Systems Lab

Course Number and Code: COMP2404

Prerequisite: COMP2302

Course Teaching Language: English

Course Level: 4

Credit Hours: 1+2

Course Description

This course covers the concepts of both relational and object relational databases and the powerful SQL programming language. Students are taught to create and maintain database objects and to store, retrieve, and manipulate data. Students learn to retrieve data by using advanced techniques such as ROLLUP, CUBE, set operators, and hierarchical retrieval. They also learn to write SQL and SQL*Plus script files using the SQL*Plus tool to generate report-like output. Demonstrations and hands-on practice reinforce the fundamental concepts.

Course Objectives

Owning the practical capabilities of developing a real database system.

Particularly applying the knowledge obtained from CS203 in analysis.

Design of a real database project.

Implementation of a real database project.





Topic	No of Weeks	Contact hours
Introduction to Oracle and database	1	5
Sorting and Retrieving Data: The Basics	1	5
Advanced Data Manipulation	2	10
Controlling SQL *Plus	1	5
SQL Functions	1	5
Using Indexes and Constraints	1	5
Other Useful Oracle Techniques	2	10
Introduction to PL/SQL	2	10
More PL/SQL Tools	2	10
More PL/SQL Tools, ODBC (connecting to other software. Such as dbase, access, excel, Visual Basic)	2	10

Book references

Book name	Authors	Publisher	Year
Oracle 10G SQL programming	SCOTT URMAN	SCOTT URMAN	2009
Fundamentals of Database Systems	Elmasri and Navathe	Pearson	2010



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خطة المقرر Module Syllabus

Course: Computer Networks

Course Number and Code: COMP2405

Prerequisite: COMP2303

Course Teaching Language: English

Course Level: 4

Credit Hours: 2+1

Course Description

In general computer networks course is a theory and computer application Course. It aims to raise awareness of computer networks (of different types and techniques) and how to construct, operate and administer. It also provides the basic information necessary for the specialist networks in order to be able to provide information services in an environment of networking and information networks.

Course Objectives

Provide students with the basic concepts of networking.

Provide students with the types of networks and different designs.

Provide students with techniques of networking devices and equipment and the protocols and standards

Introduce students to applications and network services.

Giving students practical skills in the construction and administration of network

Provide students with the existing networks of TCP / IP and addressing methods.





Topic	No of Weeks	Contact hours
Introduction to Networks, OSI Reference Model and TCP/IP Model	2	6
Network Hardware, LAN construction(lab)	1	3
Networks Topologies, LAN construction(lab)	1	3
Ethernet Technology and cabling, Getting started with windows 2008 server(lab)	2	6
LAN Technologies, Installing server core	1	3
Network troubleshooting, Server Manger(lab)	2	6
TCP/IP Protocols, Active directory domain services (lab)	2	6
Switching, Windows deployment services(lab) Internet information services IIS 7.0(lab)	3	9

Book references

Book name	Authors	Publisher	Year
Computer Networking for LANs to WANs: Hardware, Software and Security	Jr. Kenneth C. and James L. Antonakos	Delmar	2010
Microsoft Windows Server 2008 Administration	Microsoft	McGraw Hill	2008
Administrating Windows Server 2008 Server Core	John Paul Mueller	Wiley Publishing	2008



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خطة المقرر Module Syllabus

Course: Data Structures

Course Number and Code: COMP3502

Prerequisite: COMP2402

Course Teaching Language: English

Course Level: 5

Credit Hours: 2+1

Course Description

This course introduces some basic data structures (arrays, linked lists, stacks, queues, and trees) and algorithms (various sorting algorithms, and algorithms for operations on binary search trees)

Course Objectives

Provide students with the basic skills of data structures and their applications.

Provide students with the basic skills of algorithms design and analysis.

Provide students with the data structures types (linked lists, stacks, trees and queues).

Provide students with the ability to implement both static and dynamic data structures.

Provide students with the Understanding and applying various algorithms of sorting and searching.

Provide students with the ability to design and analyze new algorithms for data structures.





Topic	No of Weeks	Contact
Arrays and structures	1	3
Objects and classes	1	3
Algorithm analysis.	2	6
Templates for functions and classes.	2	6
Stacks and Queues.	2	6
Linked Lists.	1	3
Stacks and Queues implemented by linked lists.	1	3
Trees.	2	- 6
Sorting algorithms,	2	6
Searching techniques.	1	3

Book references

Book name	Authors	Publisher	Year
Data Structures using Java	D. S. Malik	Cengage Learning	2008



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خطة المقرر Module Syllabus

Course: Computer Organization and Assembly Language

Course Number and Code: COMP3508

Prerequisite: CT1201

Course Teaching Language: English

Course Level: 5

Credit Hours: 2+1

Course Description

This course provides an introduction to computer organization and assembly language. Includes these topics: general organization and main components of a computer system - the CPU, buffering proses, memory, peripherals, input/output and bus, Von Neumann model, Fetch-Decode-Execute cycle, register transfer language and notation, concept of a subroutine, and concept of an assembler and linker.

Course Objectives

- Describe the general organization and main components of a computer system the CPU, buffering proses, memory, peripherals, input/output and bus.
- · Describe and explain the Von Neumann model, Fetch-Decode-Execute cycle.
- Explain and identify computers major components and study their functions
- Describe, explain, and use a MARIE, A Machine Architecture that is Really Intuitive and Easy.
- Describe, explain, and use register transfer language and notation.
- Understanding the different addressing Modes.
- Explain the concept of a subroutine.
- Describe and explain the concept of an assembler and linker, as well as the assembly and link processes.

Topic	No of Weeks	Contact
Numbering Systems and arithmetic operations (1's and 2's Complement)	2	8
Main parts of CPU, Registers, Counters and Clocks	1	4
Fundamentals of Microprocessor Interfacing, Buses Buffering	1	8
Memory Interfacing	1	4
Design of Arithmetic and logic unit	- 1	4
The Von Neumann model, Fetch-Decode-Execute cycle, and Input/Output Subsystem	1	4
MARIE, A Machine Architecture that is Really Intuitive and Easy, The Architecture, Registers and Buses	2	4
The Instruction Set Architecture, The fundamental MARIE instructions	2	8
Register Transfer Language (RTL), Instructions Set format. Commands, Design Decisions for Instruction Sets, Number of operands and Instruction Length, Expanding Opcodes and Programs.	3	12
Addressing modes, effective address, Immediate addressing, Direct addressing, Register addressing, Indirect addressing, Register indirect addressing, Indexed addressing, Based addressing, Stack addressing,	1	4

Book references

Book name	Authors	Publisher	Year
The essentials of computer organization and Architecture	Linda Null and Julia Lobur.	Prentice Hall	2010
Principles of Computer Organization and Assembly Language	Patrick Juola	Prentice Hall	2011



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خطة المقرر Module Syllabus

Course: Graduation Project

Course Number and Code: COMP 3504

Prerequisite: COMP 2403

Course Teaching Language: English

Course Level: 5

Credit Hours: 2+1

Course Description

This course provides the student with a comprehensive understanding about studied subjects through a practical project.

Course Objectives

To make them able to develop state of the art software.

To apply what they had learn through academic years.

To give student a comprehensive understanding in database and programming languages.

To give student good skills in networking, graphics and multimedia.

To give them ability to develop solutions for real life problems

Topics to be covered

Topic	No of Weeks	Contact hours
Initiation of the Project	2	6
Preliminary Investigation	2	6

Analysis	2	6
Design	2	6
Development	I	3
Implementation	2	6
Maintenance	1	3
Final preparation of Project Report	2	6

Book references

Book name	Authors	Publisher	Year
Fundamentals of Database Systems	Elmasri & Navathe	Addison-Wesley Pearson	2010
Modern Systems Analysis & Design, 3rd edition,	Jefferey A. Hoffer, Joey F. George, Joseph S. Valacich	Prentice Hall Publication	2010



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خطة المقرر Module Syllabus

Course: Field Training

Course Number and Code: COMP 3599

Prerequisite: Pass 54 hours

Course Teaching Language: English

Course Level: 5

Credit Hours: 3

Course Description

This course gives the student a comprehensive understanding about studied subjects through a practical Training in the marketplace.

Course Objectives

Deal with the Windows Operating System environment.

Deal with the Microsoft Office suite.

Assemble and setup Personal Computers and Laptops.

Diagnose and maintain PCs and Laptops.

Solve deferent real world problems using Java programming language

Design and build small size databases

Analyze and design information systems for institutions and companies

Design, develop and manage deferent websites for deferent uses.

Design of Multimedia clips.

Design and build a small Local Area Network.

Diagnose and maintain Local Area Networks.

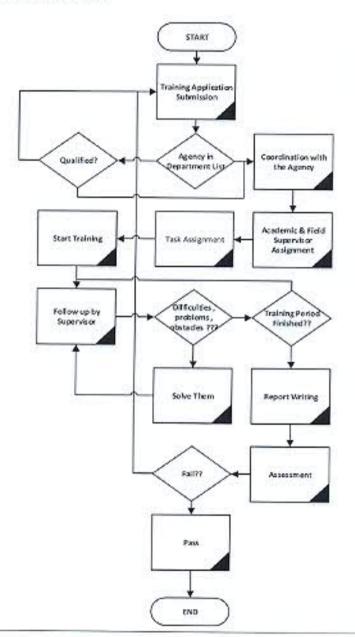




The major student activities taking place during the field experience.

- Carry out all work assigned by both supervisors (Academic and Field supervisors)
- Attend workshops, seminars and other activities related to trainee's field held in campus or outside if needed.
- Compliance with the rules and regulations of the work.
- · Send required forms to academic supervisor in a timely manner.
- Coordination with the supervisor of the training company regarding the final evaluation during the training period and send it to make sure the department head.
- Writing the final report on the training and submit it to the academic supervisor.

Field experience flowchart:









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خطة المقرر Module Syllabus

Course: Computer Maintenance and Assembling

Course Number and Code: COMP4201

Prerequisite:

Course Teaching Language: English

Course Level: Elective

Credit Hours: 2+1

Course Description

The module covers topics related to computer hardware and software necessary for computer assembling, maintenance, up-gradation and troubleshooting.

Course Objectives

Assembling of Personal Computer	
Up-grade and Maintenance	
Repairing	
Troubleshooting	

Topics to be covered

Topic	No of Weeks	Contact hours
Upgrading memory	1	4
Replacing power supplies	1	4

Partitioning drives using NTFS and FAT32	1	4
Solving data backup challenges	1	4
Protecting your PC from viruses	1	4
Adding SCSI cards and drives	1	4
Installing DVDs, CD-ROMs, and IDE and Serial ATA hard drives	1	4
Troubleshooting printers and scanners	1	4
Installing communications devices	1	4
Resolving mouse and keyboard problems	1	4
Installing video and sound cards	1	4
Troubleshooting Internet connectivity	1	4
Solving laptop problems	1	4

Book references

Book name	Authors	Publisher	Year
The Complete PC Upgrade and Maintenance Guide	, Mark Minasi Faithe Wempen, Quentin Docter	John Wiley & Sons	2010
Upgrading and Repairing PCs	Scott Mueller	Que Publishing	2008



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خطة المقرر Module Syllabus

Course: Advanced Computer Programming

Course Number and Code: COMP4202

Prerequisite: COMP2402

Course Teaching Language: English

Course Level: Elective

Credit Hours: 2+1

Course Description

This course covers the techniques of object-oriented programming in Java, and the characteristics of the Java programming language. The language features such as applets, packages, exception handling and multithreading with concurrent programming are discussed. Java graphical user interface and animation tools are important parts of this course. The advanced topics such as network programming and client/server and Remote Method Invocation (RMI) as well as Java Database Connection (JDBC) are introduced with an executable example.

Course Objectives

Demonstrate a deep understanding of various object-oriented design techniques;

Develop object-oriented applications in Java:

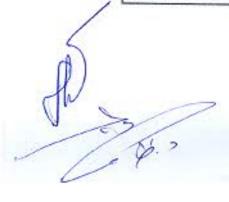
Design Java applet for internet applications;

Develop current programming applications with multithreading;

Develop Java graphical interfaces and animation tools;

Develop advanced software applications using JDBC and Client/Server technologies;

Understand and use distributed system programming with RMI.





Topic	No of Weeks	Contact hours
OO concepts and structures in JAVA	2	8
Java programming and Advanced data structures	2	.8
Threads and concurrent programming	2	8
Java applet programming with security and Multimedia	2	8
Graphical user interface design	2	8
Input, output and files	1	4
Java Database Connectivity (JDBC)	2	8
Network Client/Server programming	1	4
Distributed system programming with RMI	1	4

Book references

Book name	Authors	Publisher	Year
Java how to program	Deitel & Deitel	Prentice Hall	2011



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خطة المقرر Module Syllabus

Course: Multimedia Applications.

Course Number and Code: COMP4203

Prerequisite:

Course Teaching Language: English

Course Level: Elective

Credit Hours: 2+1

Course Description

The student learns the multimedia concepts, development, hardware, software lifecycle and application areas; and how to analyze a multimedia project, design and implement by using multimedia software tools such as Macromedia Flash and Photoshop.

Course Objectives

Ability to select and apply appropriate multimedia design techniques

Ability to integrate diverse media elements in an effective manner

Ability to use a range of multimedia development tools such as Photoshop and Flash

Ability to deliver a basic multimedia application

Ability to communicate information using multimedia tools

Topics to be covered

Topic	No of Weeks	Contact hours
Multimedia concepts, development, hardware, software lifecycle, application areas	2	8

Multimedia design and technology	1	- 4
Multimedia resources: text, Image, sound, video and animation	2	8
Multimedia and the Internet	1	4
Textual design	1	4
Manipulating graphics and text	2	8
Using symbols, instances and libraries	1	4
Using pictures, video and sound	2	8
Basic animation, Action script	2	8

Book references

Book name	Authors	Publisher	Year
Fundamentals of Multimedia	Ze-Nian Li and Mark S. Drew	Prentice-Hall, Inc., 2003	2003
Adobe Flash Professional CS5 Classroom in a Book	Adobe Creative Team	Adobe Press	2009
Adobe Photoshop CS5 Classroom in a Book	Adobe Creative Team	Adobe Press	2010



\$ 26.



الملكة العربية السعودية

جامعة اللك سعود

وكالة الجامعة للشؤون التعليمية والأكاديمية إدارة الخطط والبرامج الدراسية

خطة المقرر Module Syllabus

Course: Information Security

Course Number and Code: COMP4204

Prerequisite: COMP2302

Course Teaching Language: English

Course Level: Elective

Credit Hours: 2+1

Course Description

The course describe threats of the information security and Identify methods, tools and techniques for combating these threats

Course Objectives

Identify and p	prioritize information assets
Define an inf	ormation security strategy and architecture
	espond to intruders in an information system
Present a disa	ster recovery plan for recovery of information assets after an incident

Topics to be covered

Topic	No of Weeks	Contact hours
Information Security: An Introduction;	1	4
Why Security is Needed;	2	8

Professional, Legal, and Ethical Issues in Information Security;	2	8
Managing IT Risk;	1	4
How to Plan for Security (part 1)		4
How to Plan for Security (part 1)		4
Security Technology: Wireless, VPNs, and Firewalls		4
Security Technology: Prevention Systems, Intrusion Detection, and Other Security Tools		4
Using Encryption	1	4
Securing Physical Assets	1	4
Implementing Information Security	1	4
Personnel and Security	1	4
Maintenance of Information Security and eDiscovery	1	4

Book references

Book name	Authors	Publisher	Year
Management of Information	Whitman &	Thomson Course	2010
Security	Mattord	Technology	



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