



Course Specifications

Course Title:	Networking technique & Information
Course Code:	MIS10501
Program:	Management Information Systems
Department:	Management Information Systems
College:	College of Business Administration
Institution:	Albaha University

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A. Course Identification

1. Credit hours: 3
2. Course type
a. University <input type="checkbox"/> College <input type="checkbox"/> Department <input checked="" type="checkbox"/> Others <input type="checkbox"/>
b. Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
3. Level/year at which this course is offered: 5 th level/ 3 rd year
4. Pre-requisites for this course (if any):
5. Co-requisites for this course (if any):

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	30	%67
2	Blended		
3	E-learning	15	%33
4	Distance learning		
5	Other		

7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	Lecture	30
2	Laboratory/Studio	-
3	Tutorial	15
4	Others (specify)	-
	Total	45

* The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

B. Course Objectives and Learning Outcomes

1. Course Description

This course is a general introduction to Network Technology and Data Communications as an information development and communication function that supports management-decision making. Students will become familiarized with concepts, terms, and procedures, specifically related to information systems utilized within the management of organizations. In this course, students will also understand how technology relates to their chosen field and how it is applied in organizations, as well as to introduce students to the fundamentals, concepts, theory, development, and applications of networking technology and data communication.

2. Course Main Objective

The main purpose of this course is to introduce Network Technology and Data Communications as an information development and communication function that supports management-decision making.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge and Understanding	
1.1	<i>Define the OSI Reference Model</i>	K.1
1.2	<i>Describe the requirements for a given organizational structure</i>	K.1
1.3	<i>select the most appropriate networking architecture and technologies.</i>	K.1
2	Skills :	
2.1	<i>Analyze deficiencies in existing protocols.</i>	S.1
2.2	<i>Reorganize Mobile and Wireless Networks</i>	S.2
2.3	<i>Demonstrate effectiveness in working in a group.</i>	S.5
3	Values:	
3.1	<i>Develop search ability for information through library and internet.</i>	V.2
3.2	<i>Demonstrate effectiveness in communicating with teacher, asking questions, solving networking problems.</i>	V.2
3.3	<i>Illustrate deal with IP configuration</i>	V.1

C. Course Content

No	List of Topics	Contact Hours
1	Introduction: Network Technology and Data, Communication; Network Applications, Network Types, Physical Media, Open System Interconnection.	9
2	OSI model : The Application Layer, network architecture, application layer functions	6
3	OSI model : The Physical Layer, media types, analog transmission, digital transmission	9
4	OSI model : The Transport and Network Layer, IP address	12
5	Wired and Wireless Network types of wireless standards	6
6	Practical Training	3
Total		45

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge and Understanding		
1.1	<i>Define the OSI Reference Model</i>	<i>Lecture, Support readings, group discussions, writing reports , research.. Conducting individual tasks, practical training, field training, and presentations. Activities and homework</i>	<i>Mid term and Final exam Assessing individual & group tasks and presentation and discussions Assessment of activities, participations and homework</i>
1.2	<i>Describe the requirements for a given organizational structure</i>	<i>Lecture, Support readings, group discussions, writing reports , research..</i>	<i>Mid term and Final exam Assessing individual & group tasks and</i>

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
		<i>Conducting individual tasks, practical training, field training, and presentations. Activities and homework</i>	<i>presentation and discussions Assessment of activities, participations and homework</i>
1.3	<i>select the most appropriate networking architecture and technologies.</i>	<i>Lecture, Support readings, group discussions, writing reports , research.. Conducting individual tasks, practical training, field training, and presentations. Activities and homework</i>	<i>Mid term and Final exam Assessing individual & group tasks and presentation and discussions Assessment of activities, participations and homework</i>
2.0	Skills		
2.1	<i>Analyze deficiencies in existing protocols.</i>	<ul style="list-style-type: none"> • <i>Testing and training process</i> • <i>Fields studies and group discussion</i> • <i>Individual group tasks</i> <i>Problem solving tasks and case study</i>	<ul style="list-style-type: none"> • <i>Evaluating individual and group tasks</i> • <i>Written exams</i> • <i>Assessments of activities and home work</i>
2.2	<i>Reorganize Mobile and Wireless Networks</i>	<ul style="list-style-type: none"> • <i>Testing and training process</i> • <i>Fields studies and group discussion</i> • <i>Individual group tasks</i> <i>Problem solving tasks and case study</i>	<ul style="list-style-type: none"> • <i>Evaluating individual and group tasks</i> • <i>Written exams</i> • <i>Assessments of activities and home work</i>
2.3	<i>Demonstrate effectiveness in working in a group.</i>	<ul style="list-style-type: none"> • <i>Cooperative learning and application of scientific method in thinking by solving problems.</i> • <i>Work as part of a team.</i> • <i>Conducting group research and writing reports.</i> <i>Dividing students into groups to cooperate with each other for a better</i>	<ul style="list-style-type: none"> • <i>Assessment of group project.</i> • <i>Assessment of projects conducted individually.</i> <i>Solving case studies.</i>

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
		<i>understanding of the terms of marketing.</i>	
3.0	Values		
3.1	<i>Develop search ability for information through library and internet.</i>	<ul style="list-style-type: none"> • <i>Cooperative learning and application of scientific method in thinking by solving problems.</i> • <i>Work as part of a team.</i> • <i>Conducting group research and writing reports.</i> <p><i>Dividing students into groups to cooperate with each other for a better understanding of the terms of marketing.</i></p>	<ul style="list-style-type: none"> • <i>Assessment of group project.</i> • <i>Assessment of projects conducted individually.</i> <p><i>Solving case studies.</i></p>
3.2	<i>Demonstrate effectiveness in communicating with teacher, asking questions, solving networking problems.</i>	<ul style="list-style-type: none"> • <i>Promoting students to submit activities, homework and writing reports.</i> • <i>Encouraging students to carry small research and surveys.</i> • <i>Encouraging students to use computer-based assignments</i> 	<ul style="list-style-type: none"> • <i>Assessment by written reports.</i> • <i>Assessing activities and homework.</i> • <i>Group and individual presentations.</i> • <i>Computer and internet-based assignments.</i>
3.3	<i>Illustrate deal with IP configuration</i>	<ul style="list-style-type: none"> • <i>Promoting students to submit activities, homework and writing reports.</i> • <i>Encouraging students to carry small research and surveys.</i> • <i>Encouraging students to use computer-based assignments</i> 	<ul style="list-style-type: none"> • <i>Assessment by written reports.</i> • <i>Assessing activities and homework.</i> • <i>Group and individual presentations.</i> • <i>Computer and internet-based assignments.</i>

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Quiz 1	4	5%
2	Midterm	7	30%
3	Quiz 2	10	5%
4	Homework	At the end of each unit	5%
	Assignment	At the end of each unit	5%

#	Assessment task*	Week Due	Percentage of Total Assessment Score
5	Final Exam	17	50%

*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice:

Instructor will be available for student consultation and academic advice on weekdays during their office hours. Additional assistance by appointment only. (9 hours per week)

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	Jerry Fitzgerald & Alan Dennis, Business Data Communications and Networking, 9 th edition, John Wiley & Sons
Essential References Materials	Data Communications and Networks, by Dave Miller, McGraw-Hill Irwin. The ISBN is #0-07-296404-9 Forouzan, B. A. (2004). <u>Data Communication and Networking (3rd Edition)</u> , New York: Mc Graw-Hill Co. Inc.
Electronic Materials	http://www.network.com
Other Learning Materials	

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	<ul style="list-style-type: none"> • Air conditioned with at least 20 adequate seats. • Interactive/smart Board. • Up-to-date projector.
Technology Resources (AV, data show, Smart Board, software, etc.)	<ul style="list-style-type: none"> • Personal computer with necessary up-to-date software. • DBS Smart Systems. • Interactive Board. <p style="text-align: right;">Laptop</p>
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	<ul style="list-style-type: none"> • Colored Printer (needed). • Central laser-Printer, and Scanner. • Wall Boards (are essentially needed.). • Internet inside the classroom (missed.). <p>Library: Up to date scientific books, in the library. Wi-Fi and internet connections are available inside the teaching staff rooms, and the seminar room.</p>

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Strategies for Obtaining Student Feedback on Effectiveness of Teaching	Course teacher	<ul style="list-style-type: none"> • Questionnaires (course evaluation) achieved by the students and it is electronically organized by the University. • Students-faculty management meetings.
Other Strategies for Evaluation of Teaching by the Instructor or by the Department	Instructor or the Department	<ul style="list-style-type: none"> • Discussions within the staff member teaching the course. • Departmental internal review of the course. • Outside reviewer of the course.

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	Minutes of the Council of Management Information Systems Department
Reference No.	3
Date	8.12.2021