

Ministry of Higher Education and Scientific Research

Supervision and Scientific Evaluation Body

Quality Assurance and Academic Accreditation Office

Course Description Sample

Subject: Communication and Computer Network

This course description provides a brief survey of the most important characteristics, expected learning output, showing whether students have made full use of the learning opportunities. These characteristics have to be matched with the description of the program.

1. Educational Institution	Shatt Al-Arab University College
2. Department / Center	Computer Science Department
3. Course Title /Code	Communication and Computer Network
4. Lecturer Name	Dr. Oday Jasim Mohammed Al-Furaiji
5. Type of Teaching	Attendance
6. Academic Year /Term	2022-2023
7. Total No. of Teaching Hours	60 Hours
8. Date of Preparing this Course Description	15.09.2022

9. Course Objectives

- a. Providing students with the most important principles and basics of Communication and Computer Network.
- b. Teaching students how to apply Communication and Computer Network.
- c. Providing graduates with the necessary knowledge on Communication and Computer Network job in organizations.
- d. Improving the administrative skills in the field of Communication and Computer Network.

e. Providing graduates with the skills of education and creative learning.
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10. Course Output, Methodology and Evaluation

(A) Cognitive Objectives

a. Enabling students to acquire knowledge and the field of Communication and Computer Network.
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b. Acquainting students with how to promote their personal knowledge.

c. Helping students to acquire knowledge in the art of Communication and Computer Network.
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d. Enabling students to sharpen their skills in the dynamic work environment.

e. Enabling students to invest their scientific abilities in their working place in the scope of Communication and Computer Network.
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f. Helping students to get the necessary knowledge to solve problems of Communication and Computer Network.

(B) Skill Objectives Related to the Program:

a. Scientific Skills in the field of Communication and Computer Network

b. Leadership Skills in the field of Communication and Computer Network

c. Skills Related to Administrative Work Challenges of Communication and Computer Network

Methods of Teaching and Learning

a. Using already- prepared lectures.

b. Using up-to-date data shows.

c. Homework

d. Adopting group discussions.

Methods of Evaluation

a. Oral tests

b. Monthly tests
c. Daily quizzes
d. Students' Regular Attendance

(C) Sentimental and Value Objectives

a. Realizing ethical objectives.
b. Commitment to university traditions.
c. Compliance with the University Instructions and the Ministry Regulations.
d. Promoting students' personal abilities in educational scopes and how to behave well with others.

Methods of Teaching and Learning

a. Lectures on university instructions.
b. educational guidance lectures.
c. Continuous directing.
d. Visiting State and private institutions.
e. Showing practical cases.

Methods of Evaluation

a. Daily quizzes.
b. Classroom discussions and commitment to ethics and sublime values.
c. Special marks for class activities.
d. Monthly and quarterly evaluation.

D) General and Qualitative Skills (other skills related to the ability of employment and personal development)

a. Enabling students to acquire the skill and art of Communication and Computer

Network.
b. Enabling students to apply creative thinking in Communication and Computer Network.
c. Enabling students to use modern methods of analysis and conclusions.
d. Enabling students to be interactive and familiar with the field of Communication and Computer Network.

11. Course Structure

Week	No of Hours	Required Learning Output	Title of Subject	Teaching Method	Evaluation
1	2	understanding the material	Computer Networks Overview	- lectures - case study -discussions	- oral tests -questions
2	2	understanding the material	Data Communication	- lectures - case study -discussions	- oral tests -questions
3	2	understanding the material	Components of data communications system	- lectures - case study -discussions	- oral tests -questions
4	2	understanding the material	Physical Network Topology	- lectures - case study -discussions	- oral tests -questions
5	2	understanding the material	Categories of Networks	- lectures - case study -discussions	- oral tests -questions
6	2	understanding the material	Network Standards and OSI Model	- lectures - case study -discussions	- oral tests -questions
7	2	understanding the material	Network Criteria	- lectures - case study -discussions	- oral tests -questions
8	2	understanding the material	Layers in the OSI Model	- lectures - case study	- oral tests -questions

				-discussions	
9	2	understanding the material	Summary of OSI Layers	- lectures - case study -discussions	- oral tests -questions
10	2	understanding the material	TCP/IP Protocol Suite and addressing	- lectures - case study -discussions	- oral tests -questions
11	2	understanding the material	Layers in the TCP/IP Protocol Suite Model	- lectures - case study -discussions	- oral tests -questions
12	2	understanding the material	Addressing	- lectures - case study -discussions	- oral tests -questions
13	2	understanding the material	Data and Analog Signals	- lectures - case study -discussions	- oral tests -questions
14	2	understanding the material	Periodic and Non-periodic Signals	- lectures - case study -discussions	- oral tests -questions
15	2	understanding the material	Composite Signals	- lectures - case study -discussions	- oral tests -questions
16	2	understanding the material	Bandwidth	- lectures - case study -discussions	- oral tests -questions
17	2	understanding the material	Digital Signals & Transmission Impairment	- lectures - case study -discussions	- oral tests -questions
18	2	understanding the material	Bit Rate	- lectures - case study -discussions	- oral tests -questions
19	2	understanding the material	Transmission of Digital Signals	- lectures - case study -discussions	- oral tests -questions
20	2	understanding the material	Transmission Impairment	- lectures - case study -discussions	- oral tests -questions

21	2	understanding the material	Network Performance & Transmission Media	- lectures - case study -discussions	- oral tests -questions
22	2	understanding the material	Types of Transmission Media	- lectures - case study -discussions	- oral tests -questions
23	2	understanding the material	Twisted-Pair Cable	- lectures - case study -discussions	- oral tests -questions
24	2	understanding the material	Fiber-Optic Cable	- lectures - case study -discussions	- oral tests -questions
25	2	understanding the material	UNGUIDED MEDIA: WIRELESS	- lectures - case study -discussions	- oral tests -questions
26	2	understanding the material	Radio Waves	- lectures - case study -discussions	- oral tests -questions
27	2	understanding the material	IP addressing	- lectures - case study -discussions	- oral tests -questions
28	2	understanding the material	IPv4 address	- lectures - case study -discussions	- oral tests -questions
29	2	understanding the material	Subnetting	- lectures - case study -discussions	- oral tests -questions
30	2	understanding the material	Wired LANs – Ethernet	- lectures - case study -discussions	- oral tests -questions

12. Infrastructure

a. Textbooks	“DATA COMMUNICATIONS AND NETWORKING” Fourth Edition, Behrouz A. Forouzan, DeAnz
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b. References	"DATA COMMUNICATIONS AND NETWORKING" Fourth Edition, Behrouz A. Forouzan, DeAnz
c. Recommended books and periodicals (journals, reports, etc.)	Routing and Switching Essentials, 6th Edition, CISCO Press
d. Electronic references, internet websites, etc	www.cisco.com

13. The Plan of Improving the Course

a. Studying labor market needs.
b. Be informed of the experiences of other countries in the field of Communication and Computer Network.
c. Be informed of research work published in national and international journals in the field of Communication and Computer Network.