

# TEMPLATE FOR COURSE SPECIFICATION

## HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

### COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the program specification.

1. Teaching Institution	Al-Nahrain University/ College of Science
2. University Department/Centre	Computer Science department
3. Course title/code	Computer Networks / COMP4
4. Programme(s) to which it contributes	Bsc
5. Modes of Attendance offered	Full Time
6. Semester/Year	First Semester/ Fourth Year
7. Number of hours tuition (total)	45 Theory + 45 Practical
8. Date of production/revision of this specification	2022-2023
9. Aims of the Course	
<ul style="list-style-type: none"><li>- <i>Understanding Computer networks.</i></li><li>- <i>Understanding 7-model layers.</i></li><li>- <i>Understanding protocols of each layer and packet journey from source to destination.</i></li><li>- <i>Understanding host addressing through IPv4.0 and IPv6.0.</i></li></ul>	

10· Learning Outcomes, Teaching ,Learning and Assessment Method

A- Knowledge and Understanding

- A1. How computers get networked?
- A2. How the message transmitted from host to host?
- A3. How protocols work?
- A4.

B. Subject-specific skills

- B1. Analyzing packets, and packets journey.
- B2. Analyzing computer networks problems.
- .B3

Teaching and Learning Methods

Lectures, problem classes

Assessment methods

Exam, Test

C. Thinking Skills

- C1. Asking: Seeking new information
- C2. Deduce and Conclude.
- C3. Compare.
- C4. Classify

Teaching and Learning Methods

Lectures, problem classes

Assessment methods

Exam, Test

Course Structure .11					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2+2		Introduction to computer networking.	Formal Lectures	Class Activity
2	=		Application Layer.	=	Class Activity and Quiz
3	=		Application Layer.	=	Class Activity and Quiz
4	=		Transport Layer.	=	Class activity
5	=		Transport Layer.	=	Class Activity
6	=		Client-server and wireshark program	=	Class Activity and Quiz
7	=		First Mid-Exam	=	
8	=		Network Layer	=	Class Activity
9	=		Network Layer	=	Class Activity
10	=		Data Link Layer	=	Class Activity and Quiz
11	=		Data Link Layer	=	Class Activity and Quiz
12	=		Second mid-exam	=	
13	=		Physical layer	=	Class Activity and Quiz

## 12. Infrastructure

### Required reading:

- CORE TEXTS
- COURSE MATERIALS
- OTHER ·

- Computer networking : a top-down approach / James F. Kurose, Keith W. Ross.—6th ed.

Special requirements (include for example workshops, periodicals, IT software, websites)

Community-based facilities (include for example, guest (Lectures , internship , field studies	
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