Academic Program Specification Form For The Academic

Universitiy:
College :
Number Of Departments In The College :
Date Of Form Completion :

Dean's Name	*Dean's Assistant For Scientific Affairs*	*The College Quality Assurance And University Performance Manager*
Date : / /		*Date : / /*
	Date : / /	*Signature*
Signature	*Signature*	

Quality Assurance And University Performance Manager
Date : / /
Signature

TEMPLATE FOR PROGRAMME SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

PROGRAMME SPECIFICATION

This Programme Specification provides a concise summary of the main features of the programme 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 is supported by a specification for each course that contributes to the programme.

1. Teaching Institution	*University of Baghdad/Al_Khwarizmi College of Engineering*
2. University Department/Centre	*Information and Communication Engineering*
3. Programme Title	*Internet Architecture*
4. Title of Final Award	*BSc degree in Information and Communication Engineering*
5. Modes of Attendance offered	*Attendance is mandatory according to the university rules*
6. Accreditation	*Abet*
7. Other external influences	
8. Date of production/revision of this specification	*Nov. 2023*
9. Aims of the Programme	
At completing this course, the student should be able to: *understand the Architecture, standards and protocols making up the Internet.*	

10. Learning Outcomes, Teaching, Learning and Assessment Methods

A. Cognitive goals
A1. The structure of different Internet systems.
A2. The way of thinking and how to design
A3. The methods of developing the Internet systems.
A4. How to build, as hardware, different Internet systems.
A5.
A6.

B. The skills goals special to the programme .
B1. Apply appropriate techniques to the transmission systems that are currently used for data, voice and video over *Internet* broadband networks.
B2. Analyze and identify the specifications and tools to design typical applications, applicable to data communications and its related *Internet* systems.

B3.

Teaching and Learning Methods

Lectures, Presentations, Recitation and Documentations

Assessment methods

homework 10%
quizzes - 15%
midterm -15%
final - 60%

C. Affective and value goals

C1. Use appropriate programmable and mathematical skills to describe, analyze and solve a problem in *Internet* system.
C2. Analyze, design, evaluate, system behavior and test *Internet* system using simulation or computer-based tool (engineering software tool).
C3. Undertake ongoing learning in order to keep up to date in the field on *Internet* technologies.

Teaching and Learning Methods

Lectures, Presentations, Recitation and Documentations

Assessment methods

homework 10%
quizzes - 15%
 midterm -15%
 final - 60%

D. General and Transferable Skills (other skills relevant to employability and
personal development)
D1. Manage tasks, and solve problems.
D2. Negotiate learning contracts.
D3. Think logically and critically.
D4. Use a range of technological equipment and systems.

Teaching and Learning Methods

Lectures, Presentations, Recitation and Documentations

Assessment Methods

homework 10%
quizzes - 15%
 midterm -15%
 final - 60%

11. Programme Structure				12. Awards and Credits
Level/Year	Course or Module Code	Course or Module Title	Credit rating	
2nd		Internet Architecture		Bachelor Degree Requires (3) credits

13. Personal Development Planning

1. Manage tasks, and solve problems.
2. Negotiate learning contracts.
3. Think logically and critically.
4. Use a range of technological equipment and systems.

14. Admission criteria .

attendance is mandatory according to the university rules

15. Key sources of information about the programme

1. Books
2. Trusted Internet sources related to the Program
3. Papers.

Curriculum Skills Map

please tick in the relevant boxes where individual Programme Learning Outcomes are being assessed

Year / Level	Course Code	Course Title	Core (C) Title or Option (O)	Knowledge and understanding				Subject-specific skills				Thinking Skills				General and Transferable Skills (or) Other skills relevant to employability and personal development			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4	D1	D2	D3	D4
2nd		Internet Architecture	C	■	■	■	■	■	■	■		■	■			■	■		

TEMPLATE FOR COURSE SPECIFICATION

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 programme specification.

1. Teaching Institution	*University of Baghdad/Al_Khwarizmi College of Engineering*
2. University Department/Centre	*Information and Communication Engineering*
3. Course title/code	*Internet Architecture*
4. Modes of Attendance offered	*attendance is mandatory according to the university rules*
5. Semester/Year	*Autumn / 2023-2024*
6. Number of hours tuition (total)	*45*
7. Date of production/revision of this specification	*Nov. 2023*
8. Aims of the Course	

At completing this course, the student should be able to:
To understand the Architecture, standards and protocols making up the Internet..

9. Learning Outcomes, Teaching ,Learning and Assessment Methode

A- Cognitive goals .
Students will obtain knowledge and understanding of:
A.1 The structure of different Internet systems .
A.2 The way of thinking and how to design .
A.3 The methods of developing the Internet systems.
A.4 How to build, as hardware, different Internet systems.

B. The skills goals special to the course.
The students will acquire and develop the thinking skills that should enable them to:
B.1 Apply appropriate techniques to the transmission systems that are currently used for data, voice and video over Internet broadband networks.
B.2 Analyze and identify the specifications and tools to design typical applications, applicable to data communications and its related Internet systems.

Teaching and Learning Methods

Lectures, Presentations, Recitation and Documentations

Assessment methods

homework 10%
quizzes - 15%
midterm -15%
final - 60%

C. Affective and value goals
Students will acquire and develop the practical skills that should allow them to:
C1. Use appropriate numerical and mathematical skills to describe, analyze and solve a problem in Internet system.
C2. Analyze, design, evaluate, system behavior and test Internet system using simulation or computer-based tool (engineering software tool).
C3. Undertake ongoing learning in order to keep up to date in the field on Internet technologies.

Teaching and Learning Methods

Lectures, Presentations, Recitation and Documentations

Assessment methods
homework 10% *quizzes - 15%* *midterm -15%* *final - 60%*

D. General and rehabilitative transferred skills(other skills relevant to employability and personal development)
Students will acquire and develop the key transferable skills that will enable them to:
D1. Manage tasks, and solve problems.
D2. Negotiate learning contracts.
D3. Think logically and critically.
D4. Use a range of technological equipment and systems.

10. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	3	Ability to apply knowledge of mathematics	INTRODUCTION	Classroom with whiteboard	Quizzes
2	3	Identify basic electromagnetic fields	THE WORLD WIDE WEB	Classroom with whiteboard	Quizzes
3	3	Identify basic of electromagnetic fields	THE WORLD WIDE WEB (cont.)	Classroom with whiteboard	Quizzes
4	3	Identify mathematics of plane waves	DOMAIN NAME SYSTEM (DNS)	Classroom with whiteboard	Quizzes
5	3	Identify mathematics of plane waves	HTTP Protocol	Classroom with whiteboard	Quizzes
6	3	Identify mathematics of plane waves	FTP Protocol	Classroom with whiteboard	Quizzes
7	3	Identify mathematics of plane waves	Electronic Mail:	Classroom with whiteboard	Quizzes
8	3	Identify mathematics of plane waves	Electronic Mail (cont.)	Classroom with whiteboard	Quizzes
9	3	Identify mathematics of plane	Multimedia over the Internet: Audio and video Streaming	Classroom with whiteboard	Quizzes

		waves			
10	3	Identify mathematics of plane waves	Multimedia over the Internet: Internet Telephony (VoIP):	Classroom with whiteboard	Quizzes
11	3	Identify mathematics of plane waves	Internet Access Networks:	Classroom with whiteboard	Quizzes
12	3	Identify mathematics of plane waves	Internet Access Networks: cont.	Classroom with whiteboard	Quizzes
13	3	Identify mathematics of plane waves	Internet Access Networks: cont.	Classroom with whiteboard	Quizzes
14	3	Identify mathematics of plane waves	Comprehensive Review	Classroom with whiteboard	Quizzes
15	3	Identify mathematics of plane waves	Comprehensive Examination	Classroom with whiteboard	Quizzes

11. Infrastructure	
1. Books Required reading:	*Text book 1: Fred Halsall, "Computer Networking and the Internet", Fifth Edition, 2005.*
2. Main references (sources)	*Text book 2 : Kurose and Ross, "Computer Networking: A Top-Down Approach", 8th Edition, 2020.*
A- Recommended books and references (scientific journals, reports…).	
B-Electronic references, Internet sites…	

12. The development of the curriculum plan
This course is under constant revision in order to improve the learning outcomes of its students. - Re-evaluate goals or objectives - Keep a track of student skills that are sought after - Take job trends into consideration - Make advanced technology a constant in courses offered - Student Feedback and Assessments - Choose a Supportive Program or Software