



Module (Course Syllabus) Catalogue

2022-2023

College/ Institute	Erbil Technology College		
Department	Information and Communication technology		
Module Name	Telecommunication Switching and Networks		
Module Code	TSN505		
Degree	Technical Diploma	Bachelor <input checked="" type="checkbox"/>	Hig <input type="checkbox"/>
	Diploma	Master	PhD
Semester	five		
Qualification	Master degree in computer science		
Scientific Title	Lecture		
ECTS (Credits)	6		
Module type	Prerequisite	Core <input checked="" type="checkbox"/>	Assist. <input type="checkbox"/>
Weekly hours	4		
Weekly hours (Theory)	(2) hr Class	(60)Total hrs Workload	
Weekly hours (Practical)	(2) hr Class	(90)Total hrs Workload	
Number of Weeks	15 weeks		
Lecturer (Theory)	Shereen Abdullah Anwar		
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Lecturer (Practical)	Shereen Abdullah Anwar		
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Websites			

Course Book

Course Description	<p>Refers to the electronic transmission of signals for communications, by such means as telephone, radio, and television.</p> <p>Telecommunications is creating profound changes in business because it lessens the barriers of time and distance. Telecommunications is changing the way businesses operate.</p>				
Course objectives	<p>The objective of telecommunication switching and networks course is to</p> <p>On completion of this course, you will be able to:</p> <ul style="list-style-type: none"> • Understand the concepts related to communication and a data communication network. • Be able to describe the information transfer process. • Differentiate network devices of different types and understand their basic functions. • Understand different network types and topology types. • Understand the concepts related to network engineering and network engineers. • 				
Student's obligation	<ul style="list-style-type: none"> ○ Students attending classes regularly. ○ Group work. ○ Doing assignments. ○ Class activities. 				
Required Learning Materials	<p>lecture halls with data show equipment for lecture presentations, white board, overhead projector, posters</p>				
Evaluation	Task	Weight (Marks)	Due Week	Relevant Learning Outcome	
	Paper Review	0			
	Assignments	Homework	10		
		Class Activity	2		
		Report	4		
		Seminar	10		
		Essay	0		

	Project	0		
	Quiz	4		
	Lab.	14		
	Midterm Exam	16		
	Final Exam	40		
	Total	100		
Specific learning outcome:	<p>- Specific learning outcome:</p> <p>1-Students will be able to understand and apply knowledge of human communication and language processes as they occur across various contexts, e.g., interpersonal, intrapersonal, small group, organizational, media, gender, family, intercultural communication, technologically mediated communication, etc. from multiple perspectives.</p> <p>2- Students will be able to understand and evaluate key theoretical approaches used in the interdisciplinary field of communication. I.e., students will be able to explain major theoretical frameworks, constructs, and concepts for the study of communication.</p> <p>3- Students will develop knowledge, skills, and judgment around human communication that facilitate their ability to work collaboratively with others. Such skills could include communication competencies.</p> <p>-</p>			
Course References:	<p>Course Reading List and References:</p> <ul style="list-style-type: none"> ▪ Dr. Cheer-Sun Yang(Book) ▪ Telecommunication switching and network by ▪ Data Communications AND Networking, FIFTH EDITION, by BEHROUZ A. FOROUZAN. ▪ Stallings, W. Data and Computer Communications (6th edition), Prentice Hall 1999 chapter 1 ▪ 			
Course topics (Theory)	Week	Learning Outcome		
An introduction to computer Networks	1,2	Definition, concept, goal, type		
-Data Communication Concept	3-4	Definition, concept, goal, type		

- Introduction to telecommunication	5-6-7-8-9	Introduction to telecommunication, telecommunication concept, Telecommunication Standards Evaluation of Telecommunication Switching Systems generation 1G , 2G , 3G, 4G , 5G
-Switching system	10-11	-switching configuration
Routing	12-15	Router configuration
Practical Topics	Week	Learning Outcome
Packet tracer	1	<ul style="list-style-type: none"> - Config - Rip - Lan and Vlan design - Voice over ip.....etc
	2	
	3	
	4	
	5	
	6	
Routing and Switching configuration	7-12	
<p>Extra notes: Making the topics covered in the semester compatible with reality of the educational . Covering more than 80% of the prescribed subjects to improve the scientific level of students and preserve the standardization of diploma programs.</p>		

External Evaluator:

I have been reviewed this course book, it' perfect and feet for this subject in the level of institute student, so I have no suggestion.

Chiman Haydar Salh

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