



Module (Course Syllabus) Catalogue 2023-2024

College/ Institute	Erbil Technical Engineering College	
Department	Information System Engineering	
Module Name	Mobile Communication	
Module Code	MC03	
Degree	Technical Diploma <input type="checkbox"/>	Bachelor <input checked="" type="checkbox"/>
	High Diploma <input type="checkbox"/>	Master <input type="checkbox"/> PhD <input type="checkbox"/>
Semester	2	
Qualification	Ph.D.	
Scientific Title	Lecturer	
ECTS (Credits)	6	
Module type	Prerequisite <input type="checkbox"/>	Core <input checked="" type="checkbox"/> Assist. <input type="checkbox"/>
Weekly hours		
Weekly hours (Theory)	(3)hr Class	(--)Total hrs Workload
Weekly hours (Practical)	(0)hr Class	(--)Total hrs Workload
Number of Weeks	15	
Lecturer (Theory)	Dr. Salar Kheder Shaikhah	
E-Mail & Mobile NO.	Salar.shaikhah@epu.edu.iq , 07504550017	
Lecturer (Practical)	Dr. Salar Kheder Shaikhah	
E-Mail & Mobile NO.	Salar.shaikhah@epu.edu.iq , 07504550017	
Websites		

Course Book

<p>Course Description</p>	<p>This course provides following:</p> <ul style="list-style-type: none"> • Basics of communication system • Basics of mobile communication • Basic of wireless communication • Cellular system • Mobile Communication technologies, GSM • Mobile communication technologies, LTE • New emerging mobile communication topics 			
<p>Course objectives</p>	<p>11. Course objective: This course is prepared for the M.Sc. students for IT, Electrical, computer, ISE and ICT students. It covers the basics of communication system and then basics of wireless and mobile communication. The technologies of mobile communication GSM, WCDMA and LTE are covered and new emerging technologies in these fields are discussed.</p>			
<p>Student's obligation</p>	<ul style="list-style-type: none"> • Lectures attendance • Class participation in knowledge sharing and answering questions • Follow up the lessons with the lecture and studying related references • Doing and participating in exams • Responding request from the lecture about seminars and surveys related to subjects. <p style="text-align: right;">Doing assignments</p>			
<p>Required Learning Materials</p>				
<p>Evaluation</p>	<p>Task</p>	<p>Weight (Marks)</p>	<p>Due Week</p>	<p>Relevant Learning Outcome</p>

	Review Article	15%		
	Seminar	10%		
	Quiz	5%		
	Midterm	20%		
	Final	50%		
Specific learning outcome:	The outcome of the course is learning a strong background on the communication systems, mobile communication, wireless communication, besides understanding the 2G, 3G, and 4G technologies. As well, the student will learn most new emerging topics for research in this field			
Course References:	Course Reading List and References: Text Book: 1-Principles of Mobile Communication 2-Mobile-Communications-JochenSchiller 3-Mobile_Communication_Systems			
Course topics (Theory)		Week	Learning Outcome	
Chapter One - Fundamentals of Communication System		1-3		
Chapter Two - cellular and mobile communication fundamentals		4-6		
Chapter Three - Mobile Technologies GSM, WCDMA, LTE		7-12		
Chapter Four, Emerging topics in mobile communication		13-15		
Practical Topics		Week	Learning Outcome	
Questions Example Design				
Extra notes:				

External Evaluator

I confirm that the syllabus and content of this course book is sufficient and fulfilment for the lesson of “Mobile Communication” for the third stage of department “Information System Engineering” students, and it covers the requirements of students to have enough knowledge in this field.