Course Description Form

1. Course Name:
Fundamentals of Communications
2. Course Code:
CSE-CM332
3. Semester / Year:
First Semester
4. Description Preparation Date:
6/2/2024
5. Available Attendance Forms:
Personal
6. Number of Credit Hours (Total) / Number of Units (Total)
30/6
7. Course administrator's name (mention all, if more than one name)
Name: A.P .Dr. Ekhlas Kadhum Hamza, Dr. Haider Albonda Email: qusay.f.hasan@uotechnology.edu.iq

8. Course Objectives	
Course Objectives	-1**The study and detailed analysis of each theories concerning the designs of telecommunication systems** **2- The application of the basic principles through linking theoretical and practical laboratory**

9. Teaching and Learning Strategies	
Strategy	1-Knowing the basic theoretical principles of communicatio systems 2- Understanding the basic applications used in communicatio technologies 3- Detailed study and analysis of all theories related to systems desig 4-The above points are accomplished through a presentati homework, and documented reports

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-	2		Introduction to communication system systems types s	**Live presentation**	**Discussing and homework**
2	2		Fourier Transform	**Live presentation**	**Discussing and homework**
3	2		Transfer Function	**Live presentation**	**Discussing and homework**
4	2		Filter Circuits	**Live presentation**	**Discussing and evaluating reports**
5	2		**Exam**	**Live presentation**	**Written exam**
6	2		Analog Modulation AM/DSB-SC	**Live presentation**	**Discussing and homework**
7	2		Analog Modulation AM/DSB-LC	**Live presentation**	**Discussing and homework**
8	2		Analog Modulation AM/SSB-SC	**Live presentation**	**Discussing and homework**
9	2		Frequancy Division Multiplexin	**Live presentation**	**Discussing and homework**
10	2		Exam	**Live presentation**	**Discussing and homework**
11	2		**Phase modulation**	**Live presentation**	**Discussing and homework**
12	2		Digital Modulation ASK	**Live presentation**	**Discussing and homework**
13	2		Digital Modulation FSK	**Live presentation**	**Discussing and homework**
14	2		Digital Modulation PSK	**Live presentation**	**Discussing and homework**
15	2		**Compression between digital communication**	**Live presentation**	**Discussing and homework**

11. Course Evaluation

20% documented exam
5% Quizes
5% reports and homework

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	Fundamentals of Communications Systems Michael P. Fitz , **ISBN:** 9780071482806 **Publication Date & Copyright:** , 2007 , The McGraw-Hill Companies
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	