

Ministry of Higher Education & Scientific Research

University of Anbar

College of Computer Science  
and Information Technology

Computer Networks Systems Department



كلية علوم الحاسوب وتكنولوجيا المعلومات

وزارة التعليم العالي والبحث العلمي

جامعة الأنبار

كلية علوم الحاسوب وتكنولوجيا المعلومات

قسم أنظمة شبكات الحاسوب

## Department of Computer Networks Systems

### Course Description Form

Course Title: mobile computing

Course Code:

Semester: I

Level: B.Sc.

Class: 4th

Academic Year: 2022/2021

Course Instructor: Mr. Akeel Shaker mahmoud

Academic status: Teacher

Place of work: Computer center

Credit Hours:

Instructor Office Hours:

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وَزَارَةُ التَّعْلِيمِ الْعَالِيِّ وَالْبَحْثِ الْعِلْمِيِّ

جَامِعَةُ الْأَنْبَارِ

كُلِيَّةُ عِلْمِ الْحَاسِبِ وَتِكْنُولُجِيَا الْمَعْلُومَاتِ

قِسْمُ أَنْظِمَةِ شَبَكَاتِ الْحَاسِبِ

## Lecture Schedule:

Weeks	Topics
Week 1	What is Mobile Computing. elements of mobile computing.
Week 2	Making communications wireless. duplexing techniques
Week 3	multiple access techniques Frequency division multiple access (FDMA) Time division multiple access (TDMA)
Week 4	GSM (Global System for Mobile Telecommunications)(2G)
Week 5	UMTS (Universal Mobile Telecommunications Systems)(3G)
Week 6	First Exam
Week 7	Universal Subscriber Identity Module, USIM:
Week 8	Radio Network Subsystem (RNS) UMTS radio access network, UTRAN
	<b>Midterm Exam</b>
Week 9	What is Radio Network Controller RNC
Week 10	What are the interfaces
Week 11	core network (CN)
Week 12	Protocol Stack
Week 13	Long-Term Evolution (LTE)(4G)
Week 14	Second Exam
Week 15	Final Exam