



**K.D.K COLLEGE OF ENGINEERING, NAGPUR**  
**DEPARTMENT OF INFORMATION TECHNOLOGY**  
Session: 2018-19

**Subject Name: Elective-I -Mobile Computing**  
**SEM / Branch: -VII/IT**

**Subject Code: BEIT704T1**  
**Date of Submission: 15/7/2019**

**CO1: Apply knowledge of fundamentals of wireless communications, technologies & generations with examples and applications and compare between them.**

(BTL indicates Blooms Taxonomy level 1 Remember, 2 Understand, 3 Apply, 4 Analyze, 5 Evaluate, 6 Create)

**ASSIGNMENT NO. I (Based on Unit –I)**

Sr. No.	Name of Assignment/Question/Task given	BTL	CO/PO/PSO
1.	What is Mobile Computing ? What are characteristics of Mobile Computing? What are limitations of Mobile Computing? <b>Explain</b>	BTL-2	CO1 PO(1,2,3,4,5,12)/PSO(1,2)
2.	What is cellular communication? Discuss and <b>compare</b> cellular communication with its generations.	BTL-4	CO1 PO(1,2,3,4,5,12)/PSO(1,2)
2.	<b>Draw</b> GSM System architecture & Name the main elements of GSM System architecture and describe their functions. What are the advantages of specifying not only the radio interface but also all internal interfaces	BTL-3	CO1 PO(1,2,3,4,5,12)/PSO(1,2)

**Practice Questions**

Sr. No.	Name of Assignment/Question/Task given
1.	Explain applications of Mobile Computing
2.	With suitable schematic explain the functions of mobile computing
3.	Discuss a simplified reference model.
4.	Discuss a simplified reference model followed in mobile computing environment.
5.	Discuss various examples of wireless communication
6.	With suitable block diagram, elaborate on GSM protocol architecture for signaling
7.	Explain mobility management, call routing & roaming in GSM.
8.	What is handover? Why it is required? What are the handover scenarios in GSM? How the handover decision takes place depending on receiver signal strength?
9.	Explain localization and calling in GSM.
10.	What are various security services provided in GSM

Dr. S.P.Khandait  
Subject Incharge

Dr. S.P.Khandait  
HOD, Dept. of IT