DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING SYLLABUS FOR B.E. IV SEMESTER

INTRODUCTION TO MOBILE COMMUNICATIONS (for other Branches)

Instruction: 1 Hr /week		SEE Marks : 40	Course Code : OE450EC
Credits : 1		CIE Marks : 30	Duration of SEE : 2 Hrs
Course Objective		2	Course Outcomes
1	To provide fundamental princip required to understand the Mot systems.	les and concepts ile communication	 At the end of the course, students will be able to: Demonstrate the fundamental knowledge of Mobile communication systems. Differentiate between large scale & small scale fading channel effects. Calculate the path loss, coverage area Understand the standards of mobile communication systems.

UNIT - I

Introduction to Wireless Communication Systems: Evolution of Mobile Radio Communications, Examples of Wireless Communications Systems, The Cellular Concept – System Design Fundamentals: Introduction, Frequency Reuse, Handoff, Interference and System Capacity

UNIT - II

Mobile Radio Propagation: Introduction to Radio wave Propagation, Free Space Propagation Model, Reflection, Diffraction, Scattering, Small scale and multipath fading. Introduction to GSM and CDMA

Suggested Reading:

- 1 Theodore S. Rappaport, Wireless Communications Principles and Practices, 2nd edition, Pearson Education.
- 2 David Tse, Pramodh Viswanath, Fundamentals of Wireless Communication, 2005, Cambridge University Press.