

CSE 445: Mobile and Wireless Communication

Course Outline

Shahadat Hussain Parvez

Course Objective

- Being able to
 - Understand the basics of communication.
 - Define, Understand and differentiate between Analog and Digital Modulation.
 - Define and illustrate the basic concepts of cellular networks.
 - Compare between the multiple access methods.
 - Explain the types of cellular wireless networks.
 - Determine and analyze effects of mobile radio propagation.
 - Describe the cell site and mobile antennas.

Instructor Details

- **Instructor**
 - Shahadat Hussain Parvez
- **Email**
 - shparvez@neub.edu.bd
- **Office Location**
 - Room no 303
- **Office Hours**
 - 9:30 Am – 2:30 Pm,
Saturday-Thursday

Required Texts

- Mobile Communications by Jochen Schiller
- Wireless Communications Principle and Practice by Theodore S. Rappaport
- Cellular Mobile Systems Engineering by Saleh Faruque
- Communication Systems Engineering by John G. Proakis
- Modern Digital and Analog Communication System by B.P. Lathi
- Data Communications and Networking by Behrouz A. Forouzan

Course Materials

- All the course materials (Including name for any new books) will be available at
- <http://www.neub.shparvez.net/cse-445>
- <http://www.neub.shparvez.net/cse-446>

You are encouraged to follow the website, as I will be updating about assignments and tutorials there.

Marking Policy

- Attendance : 10 marks
- Tutorial : 15 marks
- Assignment : 5 marks
- Mid Term : 30 marks
- Final : 40 marks

Attendance Policy

- Mark for attendance will be awarded as follows. No excuse or requests will be considered regarding late submission.

Level of Attendance	Mark
96% to 100%	10
91% to 95%	9
86% to 90%	8
81% to 85%	7
76% to 80%	6
71% to 75%	5
66% to 70%	4
61% to 65%	3
60%	2
Below 60%	0

Assignment Policy

- Several Assignments will be given throughout the semester.
- Assignments Must be submitted within due dates.
- No excuse or requests will be considered regarding late submission.

Other Policy

- Bunking of class will be severely penalized.
- Mass bunking during tutorials will result in zero marks for all students.
- Other than bunking, unusual distractions during lectures by any students will also be severely penalized.

Course Schedule

- Course Schedule will be updated on ongoing basis throughout the semester.
- Lecture List as per last update are
 - Lec 1 : Introduction
 - Lec 2 : Concepts of Wireless Transmission
 - Lec 3 : Modulation and Multiplexing
 - Lec 4 : Multiple Access Techniques
 - Lec 5 : Wireless Communication Systems
 - Lec 6 :

Course Schedule (Contd.)

- Lecture List as per last update are
 - Lec 7 :
 - Lec 8 :
 - Lec 9 :
 - Lec 10 :
 - Lec 11 :
 - Lec 12 :

END