

**MONAD UNIVERSITY**  
Village & Post Kastla, Kasmabad, P.O Pilkhuwa - 245101  
Tehsil Hapur (U.P), India  
E.C Department

Course: Mobile Communication (MT-EC-231)

Assignment No: 1

Due date of submission: 10.11.2016

**Instructions**

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HOD within the due date.
3. Write your Name, Programme and Enrolment No. clearly at the top of this page.

**Q.1**

a) Explain the terms in detail;

1. Fading
2. Multipath Propagation
3. Path loss
4. Intersymbol Interference
5. Equalization

b) Draw and explain Linear equalizer in detail.

**Q.2**

a) Draw and explain Adaptive equalizer in detail.

b) Draw and explain Rake receiver in detail

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Assignment No: 2

Due date of submission: 10.11.2016

Instructions

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Q.1

a) i) Define the following terms;

1. Cell splitting
2. Frequency reuse

ii) Explain cellular concept in detail. Why the shape of cells are hexagonal?

b) Explain Handoff strategies in cellular system in detail.

Q.2

a) Draw and explain the architecture of GSM.

b) What is CDMA technology in mobile communication?

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**Course: -MT-EC-232-1 Advanced Digital Signal processing**

Assignment No: 1

Due date of submission: 10.11.2016

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Q.1

- (a) Define various signal properties.
- (b) Explain the differences between Energy and Power signals.

Q.2

- (a) What is Parseval's theorem.
- (b) Write the properties of Laplace and Fourier Transforms.

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**Course: -MT-EC-232-1 Advanced Digital Signal processing**

Assignment No: 2

Due date of submission: 10.11.2016

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Q.1

- (a) Explain DFT and its properties.
- (b) Define different types of Digital Filters.

Q.2

- (a) Explain Finite word length effects in FIR and IIR digital filters.
- (b) Briefly explain the process of FIR Filter Design.