



**MONAD UNIVERSITY**  
**ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT**

Established by UP State Govt. Act. No. 23 of 2010, & U/S 2(f) of UGC Act. 1956

N.H-24, Delhi Hapur Road, District Hapur-245101, (U.P.) India

[www.monad.edu.in](http://www.monad.edu.in)

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Program:-B.Tech (EC) - VI Sem

Course: Industrial Management (EEC-361)

Assignment No: 1

Due date of submission: 12.03.2018

**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.

**Question:-1**

- a) "Management is to the business, what mind is to a human being." Explain this statement.
- b) What are the essential characteristics of the principles of management? Do they suffer from any limitation?

**Question:-2**

- a) "Planning is looking ahead, and control is looking back." Explain.
- b) Explain in detail about 14 principles propounded by Henry Fayol.



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Program:-B.Tech (EC) - VI Sem  
Course: Digital Communication (EEC-362)

Assignment No: 1

Due date of submission: 12.03.2018

**Instructions**

4. Write the responses to the assignment in your own handwriting.
5. Submit the responses to your HOD within the due date.
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**Q.1**

- a) You know about noise then discuss about the different noise effects in Delta Modulation.
- b) You know about the PCM then explain the block diagram representation of DPCM.

**Q.2**

- a) I know you are aware about digital modulation then explain the types of digital modulation techniques.
- b) I know you are aware about various shift keys then write the difference between ASK, FSK & PSK.



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Program:-B.Tech (EC) - VI Sem  
Course: Digital Signal Processing (EEC-363)

Assignment No: 1

Due date of submission: 12.03.2018

**Instructions**

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**Q.1**

- a) Explain the direct form realization of IIR systems.
- b) Sketch and explain Butterworth filter.

**Q.2**

- a) Explain Chebyshev Filter.
- b) Sketch and explain Kaiser Window.



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Program:-B.Tech (EC) - VI Sem  
Course: Microwave Engineering (EEC-364)

Assignment No: 1

Due date of submission: 12.03.2018

**Instructions**

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**Q.1**

- a) Explain Micro strip Transmission line.
- b) Sketch and explain Microwave Cavities.

**Q.2**

- a) Explain Isolators and Circulators.
- b) Sketch and explain Circular Waveguides.



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Program:-B.Tech (EC) - VI Sem  
Course: Microcontroller (EEC-365)

Assignment No: 1

Due date of submission: 12.03.2018

Instructions

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Q.1

- a) You know about the processor then explain the difference between microcontrollers and embedded processors.
- b) You know about the addressing mode of microprocessor then explain the various addressing modes of 8051.

Q.2

- a) Explain flag bits and PSW register of 8051 microprocessor.
- b) I know you are aware about programming then explain I/O programming and I/O bit manipulation programming of 8051 microprocessor.



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Program:-B.Tech (EC) - VI Sem  
Course: Introduction to Electronic Devices (EEC-366)

Assignment No: 1

Due date of submission: 12.03.2018

**Instructions**

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3. Write your Name, Programme and Enrolment No. clearly at the top of this page.

**Q.1**

- a) Explain the energy band diagrams of conductor, semiconductor and insulators.
- b) Sketch and explain the working of a P-N junction diode in forward biasing.

**Q.2**

- a) Explain the working of N-P-N transistor with the help of diagram.
- b) Sketch and explain Input and output characteristics of Common base N-P-N Transistor.