



DEPARTMENT OF MECHANICAL ENGINEERING

MONAD UNIVERSITY, HAPUR

Dated:-30/09/2016

Course: EME-472 CAD

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 due date.
3. Write your name, programme, and Enrollment no. clearly at the top of the page.
4. Each question's part carries 5 marks.

Q.1

a) Make a table of important design phases. What are the cad tools to support various design phases?

b) Write short note on

- a) Raster scan b) random scan c) D.V.S.T

Q.2

a) A square having end points A(1,1), B(6,1), C (6,6), D (1,6) is rotated by 50° in clockwise direction keeping point (6,1) fixed. Find the final coordinates.

b) Explain the following terms related to three – dimensional transformation and show the final position graphically in each case.

i) Translation

ii) Rotation



DEPARTMENT OF MECHANICAL ENGINEERING
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Dated:-30/09/2016

Course: EME-473 Automobile engineering

Assignment No: 1

Due date of submission: 10/11/2016

Instructions

1. Write the responses to the assignment in your own handwriting & don't copy from other's assignment.
2. Submit the responses to your HoD within due date.
3. Write your name, programme, and Enrollment no. clearly at the top of the page.
4. Each question's part carries 5 marks.

Q.1

- (a) Drive an expression for torque transmission capacity of cone clutches by considering uniform pressure theory and uniform wear theory.
- (b) Describe constant mesh gear box with neat sketch.

Q.2

- (a) Describe Ackermann steering mechanism.
- (b) Describe the following.
 - (I) Toe-in.
 - (II) Toe-out.
 - (III) Understeer.
 - (IV) Oversteer.



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MONAD UNIVERSITY, HAPUR

Dated: - 30/09/2016

Course: EME-474 CAM

Assignment No: 1

Due date of submission: 10/11/2016

Instructions

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4. Each question's part carries 5 marks.

Q.1

- a) Define Automation? Explain its types.
- b) Differentiate between NC machine & CNC machine.

Q.2

- a) Elaborate Industrial Robot? Explain its history in detail.
- b) Differentiate between NC machine & Robots.



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Dated: - 30/09/2016.

Course: EME-475, Mechanical System Design

Assignment No: 1

Due date of submission: 10/11/2016

Instructions

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2. Submit the responses to your HoD within due date.
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4. Each question's part carries 5 marks.

Q.1

- (a) Define (i) Feedback control (ii) Concurrent engineering
- (b) Describe the case study approach in mechanical system design with proper steps

Q.2

- (a) Explain Black box theory and component integration approach.
- (b) Why there is need of modeling in a system? Explain the types of models.



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Dated: - 30/09/2016.

Course: EME-471, Entrepreneur Development Program

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 due date.
3. Write your name, programme, and Enrollment no. clearly at the top of the page.
4. Each question's part carries 5 marks.

Q.1

- a) Bank is giving you loan @ the interest rate of 12% per year. You have to start a business and define how will you take business up to an Entrepreneurship?
- b) Define briefly – Steps in Small Scale Industries

Q.2

- a) what do you mean by Project identification?
- b) Explain it in your words "preparation of project report"

