



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Session - (2018-2019)

Programme Name:

Student's Name:

Father's Name:

Enrollment Number:

Course Name:

Course Code:

Assignment Number:

Date of Submission:

Course Faculty Signature



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Dated:-01/03/2019

Course: MTME—121, Computer Integrated Manufacturing

Assignment No: 1

Due date of submission: **12/03/2019**

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 "**course faculty**" 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) You are aware about the CNC technology and principles. Explain it in detail.
- (b) You know that CNC programming is very important in the manufacturing. Explain the classification of CNC program.

Q.2

- (a) You know about the APT programming. Explain it with examples.
- b) You are aware about G, M codes and manual part programming. Explain it.



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Dated:-**01/03/2019**

Course: MTME-122, Advanced Mechanics of Solids

Assignment No: 1

Due date of submission: **12/03/2019**

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 "**course faculty**" within due date.
3. Write your name, programme, and Enrollment no. clearly at the top of the page.
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Q.1

- (a) As you already know the concept of elasticity; establish the relationship between any three elastic constants.
- (b) As you are familiar with torsion; explain torsion in a non circular section.

Q.2

- (a) As you are familiar with theories of failure; explain maximum principle stress theory with example.
- (b) You have already studied theories of failure; explain maximum principle strain theory with example.



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Dated:-01/03/2019

Course: MTME-123(2), Advanced Welding Technology

Assignment No: 1

Due date of submission: **12/03/2019**

Instructions

1. Write the responses to the assignment in your own hand writing & don't copy from other's assignment.
2. Submit the responses to your "**course faculty**" 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) I know you are aware about welding metallurgy. Define the classification of welding process.
- (b) I know you are familiar with metal weldability. Discuss the effects of alloying elements on weldability.

Q.2

- (a) You are very well familiar with weld design & quality control. Discuss about five basic types of welding joints.
- (b) You know about pre and post welding heat treatments very well. Discuss about post welding heat treatment.



DEPARTMENT OF MECHANICAL ENGINEERING MONAD UNIVERSITY, HAPUR

Dated:-01/03/2019

Course: MTME-124(2) Computational Fluid Dynamics.

Assignment No: 1

Due date of submission: **12/03/2019**

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 "**course faculty**" 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) You are aware about computational fluid dynamics. Write the applications of computational fluid dynamics.

(b) You know about boundary condition. Write the basic types of boundary conditions. Explain it with a suitable diagram.

Q.2

(a) You are familiar with finite difference method. Write the advantages of finite difference method.

(b) You are aware finite volume method. Define finite volume method.