

COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY

**B.TECH. DEGREE III SEMESTER SUPPLYMENTARY EXAMINATION IN
MARINE ENGINEERING DECEMBER 2020**

MRE 1303 WORKSHOP TECHNOLOGY
(2013 Scheme)

Time: 30 Minutes [for Answering and Scanning/Uploading the page of the Answer Sheet] per module
Max. Marks: 10 per module

INSTRUCTIONS

1. You have to be available in Google Meet Video Camera throughout the examination hours.
2. You have to share your '**live location**' to the faculty before uploading the answer sheet of Module I.
3. You have to answer only one question per module.
4. Answer may not exceed one page of an A4 size paper in a standard handwriting, as far as possible.
5. If at all an answer goes beyond one page, (due to your handwriting) another page can also be used. In such a situation, the page number should be given as 1/2, 2/2.
6. You have to put the Question Number correctly.
7. After answering the question, you have to scan in pdf format and upload the answer page in a format of <reg. no.><module/group no.><question no.>.pdf.

MODULE - I

(Answer **ANY ONE** question)

- I(1). Write a note on heat generation and temperature in cutting process. (10)
- OR**
- I(2). Explain the chip formation in cutting process. (10)

MODULE - II

(Answer **ANY ONE** question)

- II(1). What are the different types of drilling machines? Explain any one in detail. List the operations, which can be performed on a drilling machine? (10)
- OR**
- II(2). Explain the different types of milling cutters and milling machines available. (10)

MODULE - III
(Answer *ANY ONE* question)

- III(1). Explain: (10)
- (i) Limit
 - (ii) Fit
 - (iii) Tolerance
 - (iv) Allowance

OR

- III(2). Write notes on: (10)
- (i) Honing
 - (ii) Lapping
 - (iii) Grinding
 - (iv) Jigs and Fixtures

MODULE - IV

(Answer *ANY ONE* question)

IV(1). What are the different types of packing and joining materials commonly used in fitting and overhauling shops? How are they selected? (10)

OR

IV(2). Briefly explain the aims and objectives of Factories Act 1948, regarding safety. (10)

MODULE - V

(Answer *ANY ONE* question)

V(1). What are the major welding defects? Explain any five. (10)

OR

V(2). Explain neutral, oxidizing and reducing flames in gas welding. (10)
