

Code: ME6T6FE-C, EC6T6FE-E, IT6T5FE-B, CS6T5FE-E.

**III B.Tech - II Semester – Regular/Supplementary Examinations  
AUGUST - 2021**

**MATLAB PROGRAMMING AND APPLICATIONS**

(COMMON TO ME, ECE, IT & CSE)

Duration: 3 hours

Max. Marks: 70

**PART – A**

Answer *all* the questions. All questions carry equal marks

11x 2 = 22 M

1.

- a) Write different file types in MATLAB.
- b) How to create vectors using MATLAB commands?
- c) Brief about special variables in MATLAB.
- d) Present the meaning of curve fitting.
- e) Give the various string operations in MATLAB.
- f) Specify the role of legend and title in MATLAB.
- g) Write the syntax of Mean & Median functions.
- h) What is meant by surface plot?
- i) Write the constants in MATLAB.
- j) What is the syntax of ezplot?
- k) Write the meaning of fplot in MATLAB.

## PART – B

Answer any *THREE* questions. All questions carry equal marks.

3 x 16 = 48 M

2. a) Explain various MATLAB Functions for relational and logical operations. 8 M
- b) Using an example, explain the saving and execution of script files. 8 M
3. a) Write about the logspace commands. 8M
- b) Write a simple program for printing plots. 8 M
4. a) Write the syntax for the following in MATLAB  
i) for loop ii) while loop iii) switch-case-otherwise 8 M
- b) Represent the functions of ezsurfc commands. 8 M
5. Detail the procedure of handling graphics and modifying the existing plot. 16 M
- 6) Find the solution using the function rref on the augment matrix on the following equation.  
 $x + 2y + 3z = 2, 3x+3y+4z = 1, 2x + 3y + 3z = 1.$  16 M