PROCEEDING OF BOARD OF STUDIES 2022-2023, SCHOOL OF MATHEMATICS HELD ON 28th January 2023 at 11am.

MEMBERS PRESENT:

1. Prof. Jayaprakash Panda, External Member, Professor, Dept. of Mathematics, VSSUT Burla
2. Dr. B. L. Panigrahi, Chairperson, School of Math., G. M. University
3. Dr. Y. Jamudulia, Asst. Professor, School of Math., G. M. University
4. Dr. A. Patra, Asst. Professor, School of Math., G. M. University

BUISNESS CONDUCTED:

The Board of Studies meeting of School of Mathematics, GMU was held on 28-01-2023 in the Office of School of Mathematics in physical mode at 11am. The meeting continues up to 1.15pm with successful discussions.

1. It has been resolved that, the syllabus of PG and Ph.D. for the academic year 2022-2023 for the School of Mathematics, GMU remains unchanged.

2. The UG Syllabus has been discussed and found the following suitable change for the Academic year 2022-2023.

   In Semester IV- SECII Paper- Introduction to MATLAB has been modified.

28.1.2023
(J. Panda)

28/1/2023
(B. L. Panigrahi)

28/01/2023
(Y. Jamudulia)

28/01/2023
(A. Patra)

SKILL ENHANCEMENT COURSES-II (Option3)

INTRODUCTION TO MATLAB

Unit-I

Starting with MATLAB, MATLAB Windows, Arithmetic Operations, Elementary Math built-in functions, Defining scalar variables, Creating arrays: one dimensional, two-dimensional,Variables in MATLAB, Transpose operator, Array addressing, Using a Colon, Adding and deleting elements, Built-in-functions for handling arrays, Strings

Unit-II

Mathematical operation with arrays: Addition and Subtraction with arrays, Array multiplication, Array division, Element-by-element operations, Using arrays in MATLAB built-in Math functions, Built-in functions for analyzing arrays, script files, creating and saving script files, input to a script files, Output commands.

Unit-III
Two-dimensional plots: The plot command, fplot command, plotting multiple graphs, formatting a plot, Plots with special graphics, Histograms, Polar plots, Three dimensional plots: Line plots, Mesh and surface plots, plots with special graphics.

Unit-IV

Function and function files: creating function files, structure of a function file, local and global variables, examples of simple function files, Programming in MATLAB: Relational and logical operators, conditional statements, loops, switch-case statement, nested loops, break and continue command.

Books Recommended:
1. A. Gilat, MATLAB: an introduction with Applications, Wiley, 2004
2. Rudra Pratap, Getting started with MATLAB.