

## Report of the course attended

### Name of Event :

One week Teacher's Enrichment Workshop on "Computational Methods for Solving Differential Equations".

### Date and Venue of Event :

From 25<sup>th</sup> Dec. to 30<sup>th</sup> Dec 2019 at IKGPTU Jalandhar .

### Course Contents:

Introduction to MATLAB, the approximation methods for solving differential equations which cannot be solved by analytic methods like Euler's method, RK Method, Finite difference methods were discussed in details with their geometrical meanings .The practical sessions were conducted for programming of these methods in MATLAB.

### Expected benefits derived and how it will be helpful to college:

MATLAB is very useful for the research work in Mathematics. All the numerical computations are now done in MATLAB, so it will be very helpful in my research work. Also the subject named 'Numerical Methods' is being taught in mechanical and production engineering. With the advent of high performance computing and availability of high end hardware, computational modeling and simulations have become an important tool in the engineering analysis.

