

MATHEMATICA WORKSHOP: NUMERICAL SIMULATIONS

1 NOVEMBER 2023 (WEDNESDAY)

Ordinary Differential Equations

15 NOVEMBER 2023 (WEDNESDAY)

Partial Differential Equations

29 NOVEMBER 2023 (WEDNESDAY)


Fractional Partial Differential Equations



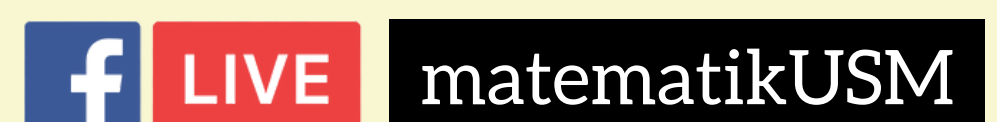
Prof. Dr. Muhammad Abbas
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In this workshop, we present an informative Mathematica workshop dedicated to numerical simulations and solutions. This workshop provides a unique platform for exploring the practical application of numerical methods within Mathematica, addressing scientific and mathematical complexities. Mathematica, a robust computational software, offers a comprehensive suite of tools and features for rigorous numerical analysis and simulation. Irrespective of familiarity with Mathematica, the workshop is thoughtfully customized to accommodate participants at all proficiency levels. The workshop encompasses an extensive curriculum, including:

- Introduction to Mathematica
- Basic Mathematica Operations
- B-spline Functions
- Fractional Derivatives
- Numerical Methods
- Visualization
- Solving Linear/Non-linear Ordinary Differential Equations
- Solving Linear/Non-linear Partial Differential Equations
- Solving Linear/Non-Linear Fractional Partial Differential Equations
- Results in Tabular Form

 12:00-1:00 PM

 Live via Webex at <https://bit.ly/mathematicaNov23>



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