

"Computational Methods and APP Development in MATLAB"

October 10-14, 2016

(Hands-on Experience Oriented Programming Skill Development Program)

Tentative schedule

Day 1 10/10/2016	8:30-8:50	Registration
	8:50-9:00	Inauguration and Welcome Address
	9:00-11:00	MATLAB Applications
	11:00-13:00	Introduction to MATLAB User Interface, Basic Operations
	13:00-14:00	Lunch Break
	14:00-16:00	Using MATLAB as Calculator
	16:00-18:00	Programming Basics
Day 2 11/10/2016	9:00-11:00	Handling Variables, Data Format, Expressions and Matrices, Conditional/logical Statement
	11:00-13:00	Execution Control, Loops, Writing Functions
	13:00-14:00	Lunch Break
	14:00-16:00	2D Plotting Visualization Using MATLAB, 3D Plots, Modifying plots using property editor, Automating Plots
	16:00-18:00	Nesting Functions, Data Input/Output in Various Format
Day 3 12/10/2016	9:00-11:00	Polynomials, curve fitting and interpolations
	11:00-13:00	MathWorks education tools
	13:00-14:00	Lunch Break
	14:00-16:00	Building Graphical User Interface (GUI) Basics
	16:00-17:00	Introduction to Simulink and Creating simulation using simulink
	17:00-18:00	Machine learning
Day 4 13/10/2016	9:00-11:00	Numerical Solution of Ordinary Differential Equations
	11:00-13:00	Optimization Techniques
	13:00-14:00	Lunch Break
	14:00-16:00	Building GUI's by own, Generating Executable Files and Stand-Alone Applications
	16:00-18:00	Development Tools and Programming Techniques, Debugging and Trouble shooting programs,
Day 5 14/10/2016	9:00-11:00	Numerical Methods
	11:00-13:00	GUI advanced
	13:00-14:00	Lunch Break
	14:00-16:00	CAD Applications and visulisation, Reading writing text files
	16:00-18:00	Projects/Case studies Demonstration, Handling data in MS Excel, Hardware control
	18:00-18:10	Valedictory and Certificate Distribution followed by High Tea