



7-DAYS INTENSIVE WORKSHOP IMMERSION MATLAB (MATRIX LABORATORY)



Organised by

Anna College of Arts and Science

In association with

Bharathi Women's College & Jiyadhal College

CONTACT: Prof.Dr.S.Balamuralitharan, +91-88387 02557

EMAIL ID: conferences_events@annaicollege.com



18 – 24 MAY 2026



9:00 PM – 10:00 PM

Resource Person



Prof. Dr. S. Balamuralitharan

Post Doctoral Research Fellow, Lincoln University College, Malaysia.

Professor of Mathematics, Annai College of Arts & Science, Kumbakonam.

Adjunct Faculty, SIMATS, Saveetha University, Chennai.

Important Dates

Last date for Registration : 18.05.2026

Workshop dates : 18.05.2026 to 24.05.2026

Participation certificates will be issued after the workshop to all the participants.

Registration for the workshop shall be done using the google form below and also available on the website.

Important Links

Website Link : <https://chendurph.com/workshops/matlab-2026>

Registration Link : <https://url-shortener.me/HQQR>

Join WhatsApp Group : https://chat.whatsapp.com/CHEBibzk5jcGTIQMDIS4EO?mode=gi_t

Modules of the Workshop **Everyday 9.00 – 10.00 Pm**

DATES	MODULES
Day 1 18.05.2026	Introduction to MATLAB programming: Introduction, List of MATLAB windows, Hints to work with Command window, Some MATLAB Operations, Display formats in MATLAB, Elementary math built-in functions, Variable and Rules About Variable Names, Creating Arrays, Creating a two-dimensional array (Matrix), Array addressing, Addressing arrays using colon :, Some commands on matrix arrays, Eigenvalues and Eigenvectors, Algebra with MATLAB commands, M-files, Working with Script Files, Function file, Relational operators, The if-end Structure, The if-else-end Structure, The if-elseif-else-end Structure, The for-end Loops, Two Dimensional Plots, Line Style-Options, Color Style-Option, Marker Style-Options, Some examples of plot command and problems
Day 2 19.05.2026	Types of Bar Graphs, pie, histogram, Create Scatter Plot, formatting a plot using commands, Plotting Functions, plotting multiple graphs in the same plot, using hold on command, polar plot, Three Dimensional.
Day 3 20.05.2026	M file, decimal, syms, vpa(ans), double(ans), format long, format longG, format short, format shortG, format shortE, format longE, format shorteng, format longeng, inv(A), vpa(inv(A)), Polynomial Equations, Roots of Polynomial, Polynomial from roots, Addition/subtraction, Multiplication and Division, Differentiation of polynomials, Curve Fitting and Interpolation, Curve fitting with functions other than polynomials, Differentiation of functions.

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DATES	MODULES
Day 4 21.05.2026	Eigen values and eigne vectors, differentiation, diff(diff(g)), Higher-Order Derivatives of Univariate Expression, Integration
Day 5 22.05.2026	minimum / maximum/ Lagrange multipliers
Day 6 23.05.2026	Symbolic integration, Definite Integral, Evaluating Double integral, Evaluating triple integrals, Solving Ordinary Differential Equations, Data Statistics, Basic Fitting, Distribution Fitting Tool, Curve Fitting Tool, Analysing a Fit.
Day 7 24.05.2026	Numerical methods: 'Newton-Raphson Method', 'Secant Method', 'Regula-Falsi Method', 'Modified Eulers Method', DIVIDED DIFFERENCE TABLE, Newton's method, Trapezoidal Rule, Simpsons rule.

Registration



Students / Research Scholars	-----	₹500
Faculty / Academician / Industry	-----	₹700

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