

National Institute of Electronics & Information Technology

Gorakhpur (Under Ministry of Electronics and Information Technology, Govt. of India)

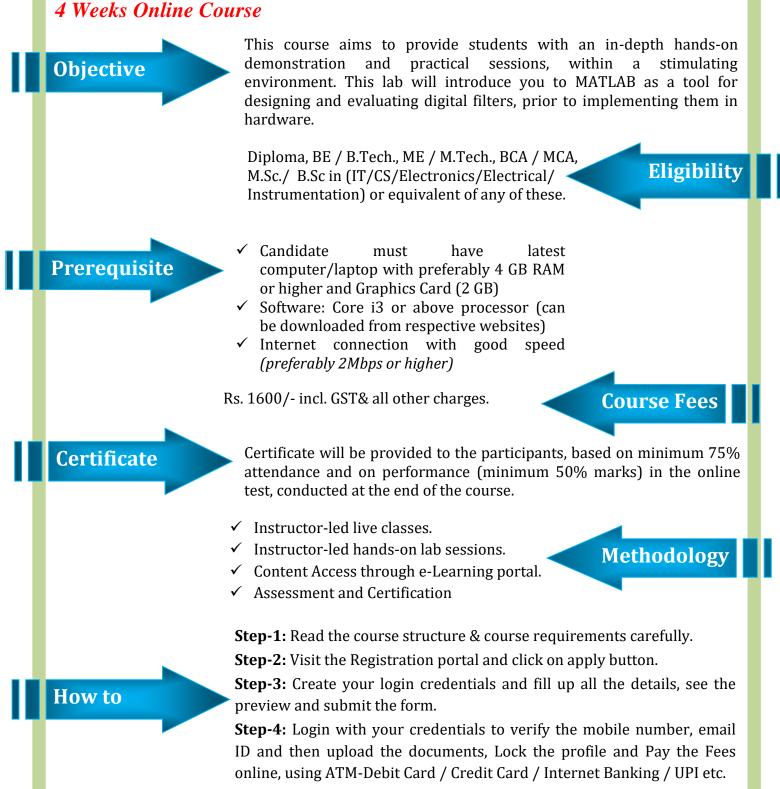
> MMMUT Campus, Deoria Road, Gorakhpur-273010 http://www.nielit.gov.in/gorakhpur/



DSP using MATLAB

Course in DSP using MATLAB

4Weeks (2Hrs. per day) Timing: - 03:00 PM to 05:00 PM





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Course Content

Day	Торіс	Day	Торіс	Day	Торіс
Day #01	Introduction to MATLAB, Features and uses of MATLAB	Day #02	Matrices and Array, Operations, Row, column vectors operations, Vector operations- Addition, Subtraction, multiplications	Day #03	Transpose, conjugate, determinant and inverse of a Matrix, Various operations on Matrices
Day #04	Plotting and Graphics. Adding Title, Labels, Grid Lines, and Scaling on the Graph, Drawing Multiple Functions and sub plotting	Day #05	Setting Colors, Axis Scales Drawing Bar Charts, contours and 3D plots'	Day #06	Plotting of Unit sample, unit-step, unit-ramp, exponentials
Day #07	Basics of Engineering Mathematics operations in MATLAB	Day #08	Calculus	Day #09	Polynomials Algebra
Day #10	Z-Transform, Basics of Z-Transform	Day #11	Properties of Z-transform	Day #12	Basics of Fourier Transform.
Day #13	Properties of Fourier Transform, Frequency Domain Representation	Day #14	Laplace Transform, Basics of Laplace Transform.	Day #15	Properties of Laplace - transform
Day #16	DFT & IDFT, DFT & IDFT Properties	Day #17	Basic concepts of IIR and FIR filters	Day #18	Design of IIR, FIR filters, Windows Technique.
Day #19	Introduction to image processing, Types of Images	Day #20	Basic image Operations, Image conversion, Noise in image		

Course Coordinator

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