

CONTENTS

Part	Lesson	Title	Page. No	Initials
I MATLAB Fundamentals				
	1	Arithmetic operations		
	2	Creating and working with vectors		
	3	Creating and printing simple graphs (2D)		
	4	Creating, saving and executing script File		
	5	Creating, saving and executing function File		
	6	Working with files and directories		
	7	Publishing reports		
	8	Use of <code>input</code> , <code>fprintf</code> and <code>sscanf</code> in MATLAB		
	9	The conditional control statements		
II Numerical Analysis				
	10	Finding roots of a polynomial		
	11	Matrices - Matrix operations		
	12	Ordinary Differentia Equations (ODE)		
	13	Solution to transcendental equations		
	14	Polynomial curve fitting		
	15	Numerical integration		
	16	Linear algebraic equations - Gauss Elimination and Gauss Jordan		
	17	Linear algebraic equations - Gauss Siedel and Jacobi iterative procedures		
	18	Roots of a Non-Linear equation – Newton-Rapshon		
III Chemical Engineering Applications in MATLAB				
	19	Simple programs to solve chemical engineering problems		
	20	Solving unsteady state problems using MATLAB		