Curriculum Plan: B.Sc. (Phy Sc), Semester VI, 2022: Numerical Analysis

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Marks Distribution	Theory	75 Marks
	Internal Assessment	Assignments 10 Marks
		Class- Test 10 Marks
		Presentation 5 Marks
Classes Assigned	**Lectures**	2 per week

Reference	[1]	Laurence V. Fausett, Applied Numerical Analysis, Using MATLAB, Pearson, 2/e (2012)
	[2]	M.K. Jain, S.R.K. Iyengar and R.K. Jain, Numerical Methods for Scientific and Engineering Computation, New Age International Publisher, 6/e (2012)
	[3]	Steven C Chapra, Applied Numerical Methods with MATLAB for Engineers and Scientists, Tata McGraw Hill, 2/e (2010)

Section	Week	Topics
	Beginning day /1st week January 1- 8, 2022	GAUSS ELIMINATION METHODS.
	2nd week January 10-15, 2022	GAUSS-JOURDAN METHODS.
	3rd week January 17-22, 2022	GAUSS THOMAS METHOD FOR TRIDIAGONAL SYSTEMS ITERATIVEMETHODS.
	4th week January 24-29, 2022	GAUSS THOMAS METHOD FOR TRIDIAGONAL SYSTEMS ITERATIVEMETHODS continued.
	5th week January 31- February 5, 2022	JACOBI ITERATIVE METHOD INTERPOLATION.
	6th week February 7-12, 2022	JACOBI ITERATIVE METHOD INTERPOLATION continued.
	7th week February 14-19, 2022	GAUSS-SEIDEL ITERATIVE METHOD INTERPOLATION.
	8th week February 21-26,2022	GAUSS-SEIDEL ITERATIVE METHOD INTERPOLATION continued.
	9th week February 28- March 5, 2022	LAGRANGE'S FORM FINITE DIFFERENCE OPERATORS.
	10th week March 7-12, 2022	LAGRANGE'S FORM FINITE DIFFERENCE OPERATORS continued.
	11th week March 21- 26, 2022	NEWTON'S FORM FINITE DIFFERENCE OPERATORS
	12th week March 28- April 2, 2022	
	13th week April 4-9, 2022	NEWTON'S FORM FINITE DIFFERENCE OPERATORS continued.
	14th week April 11-16, 2022	GREGORY NEWTON FORWARD DIFFERENCES INTERPOLATION continued
	15th week/ with 3 days April 18-27, 2022	GREGORY NEWTON FORWARD DIFFERENCES INTERPOLATION