

Topics to be covered (1/2):

Lecture No.	Topics	Status
1	Floating-point numbers and machine representation of numbers	Done on 24/01/23
2	Round-off errors	Done on 25/01/23
3	Root finding methods: Bisection method	Done on 30/01/23
4	Secant method and Regula-Falsi method	Done on 31/01/23
5	Newton-Raphson method	Done on 01/02/23
6	Fixed point iteration method	Done on 08/02/23
7	Higher order one-point methods, revisit Newton-Raphson method	Done on 01/02/23
8,9	Introduction to MATLAB	Done on 06/02/23 and 07/02/23
*	Quiz 1	Done on Feb 8 and Feb 13
10	Vector and Matrix norms (From linear algebra)	Done on 13/02/23
11	Newton's method for system of non-linear equations	Done on 14/02/23
12	Methods to solve system of linear equations: Gaussian elimination	Done on 15/02/23
13	Pivoting and sensitivity of linear systems	Scheduled on 20/02/2023
14	Methods for simple structured of matrices	Not yet covered
15	LU Factorization: Doolittle's	Not yet covered
16	LU Factorization: Croute's and Cholesky	Not yet covered
17	Gauss-Jacobi and Gauss-Seidel method	Not yet covered
18	Power method to find eigenvalues	Not yet covered
19	Regression	Not yet covered
20	Regression continued	Not yet covered

*Some of the topic can take more than one lecture.