

Department of Mathematics
National Institute of Technology Kurukshetra

Mid Term Exam II

(Regular and Reappear students of **B.Tech 3rd semester ME and CE**)

Course Title: Applied Numerical and Statistical Methods

Course Code: MAIR 21

Examination Date: November 07, 2020 Time: 11:00 AM-11.50 AM

Syllabus:

Interpolation - Newton's formulae for interpolation- Lagrange interpolation - numerical differentiation - maxima minima for tabulated values - numerical integration: Trapezoidal rule, Simpsons 1/3rd and 3/8th rules - Romberg's method.

Runge Kutta methods-fourth order R.K. method - systems of equations and higher order equations - multi step methods: Adams-Bashforth method-boundary value problems-finite difference method.

Naveen Kumar

Course Coordinator (MAIR 21)

Ravi Shankar

HOD (Mathematics)