

# V Rajaraman Numerical Method

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Computer Oriented Numerical Methods: V Rajaraman, Prentice Hall of India 4 Numerical methods with programs in C++: S Balachandra Rao & C K Shantha 5 Numerical Methods with programs in C and C++: Veerarajan & Ramchadran Tata McGraw Hill 6 A textbook of Computer based numerical and Statistical

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Euler 's Method , Taylor Series Method , Runge Kutta Second Order Method , Runge Kutta Fourth Order Method Text Books :-1 Computer Oriented Numerical Methods (V Rajaraman) Reference Book : - 1 Introductory method of Numerical Methods (SSSastry) 2 Computer Oriented Numerical Methods (RSSaslaria) 3 Scientific and Statistical Computing

### **CP508: Numerical Methods - Birla Vishvakarma Mahavidyalaya**

CP508: Numerical Methods Teaching Scheme Credits Marks Distribution Total L T P C Marks Theory Marks Practical Marks ESE CE ESE CE 2 0 2 4

70 30 30 20 150

**TAS-302 COMPUTER BASED NUMERICAL AND STATISTICAL ...**

Rajaraman V, "Computer Oriented Numerical Methods", Pearson Education 2 Gerald & Whealey, "Applied Numerical Analyses", AW 3 Jain, Iyengar and Jain, "Numerical Methods for Scientific and Engineering Computations", New Age Int 4 Grewal B S, "Numerical methods in Engineering and Science", Khanna Publishers, Delhi 5 T Veerarajan, T Ramachandran, "Theory and Problems in

**Scheme of Teaching and Examination for**

Computer based numerical algorithm, East West Press, 1975 - EV Krishna Murthy & SV Sen 5 Computer oriented numerical method, Prentice Hall India, 1980 - V Rajaraman

**Course Name: COMPUTER ORIENTED NUMERICAL ANALYSIS**

LaGrange's Method Curve Fitting for line and parabola Module V: Numerical Differentiation & Integration 15 Numerical Differentiation based on Interpolation Formula, Numerical Integration, Trapezoidal Rules, Simpson's 1/3 rule, Simpson's 3/8 Rule, Romberg's Method Module VI: Numerical Solution to ODE 15

**NUMERICAL METHODS - University of Calicut**

methods for finding solution of equations involves (1 ) Bisection method, (2 ) Method of false position (Regula-falsi Method), (3 ) Newton-Raphson method A numerical method to solve equations may be a long process in some cases If the method leads to value close to the exact solution, then we say that the method is

**NUMERICAL AND STATISTICAL METHODS**

Unit-2: Numerical Differentiation- Errors in Numerical Differentiation- Cubic Spline Method- Numerical Integration- Trapezoidal Rule- Simpson's 1/3 and 3/8 Rules- Romberg Integration- Ordinary Differential Equations- Taylor's Series Method- Euler's Method- Runge-Kutta 2nd and 4th Order Methods-Predictor-Corrector Methods

**Paper Code : CON:302 Paper Name : Computer Oriented ...**

NU BCA Second Year Syllabus 3rd Semester(CON:302) Page 2 of 2 Taylor Series Method, Euler's method, Second and Fourth order Runge-Kutta methods RECOMMENDED BOOK 1 Balagurusamy, E, Numerical Methods, Tata McGraw Hill, 1999

**Course Name: COMPUTER ORIENTED NUMERICAL METHODS L T L ...**

Numerical Integration, Newton-Cotes Formula: Trapezoidal rule, Simpson's 1/3rd rule, Simpson's 3/8th rule, Weddle's rule Module V: Numerical Solution of Differential Equations 20 Basic Terminology of Differential Equations, Picard's Method, Euler's method, Modified Euler's method, Taylor's Series method, Runge-Kutta Methods

**MA601 NUMERICAL METHODS AND APPLIED STATISTICS**

a Roots of an equation using Newton - Raphson method b Solution of linear simultaneous equations using Gauss elimination c Matrix inversion using Gauss Jordan method d Linear regression line of given points 1 Rajaraman, V, Computer Oriented Numerical Methods, Prentice - Hall of India, 1995 2

**PROBABILITY AND NUMERICAL METHODS Semester IV**

6 Problem solving "Numerical Integration" 7 Problem solving on "Roots of equation" 8 Problem solving on "Linear algebraic equation:" List of Experiments Sr No Tutorial Content 1 Implement Bisection Method 2 Implement False position Method 3 Implement Secant Method 4 Implement

Newton Raphson Method 5 Implement Trapezoidal Method

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1) Introductory methods of Numerical Analysis Prentice Hall of India - SS Sastry 2) Computer Oriented Numerical Method Prentice Hall of India - V Rajaraman 3) Numerical Methods Tata Mc Graw-Hill publishing company - E Balagurusamy 4) Finite Difference and Numerical Analysis (S Chand & Comp Ltd) - HC Saxena

### **Course No. PHDPHY01 Research Methodology and Research ...**

7 Numerical mathematical Analysis, James B Scarboroughs 8 Numerical Methods for Scientists and Engineers, K Sankara Rao, 3rd Ed PHI 9 Computer Programming in Fortran90 and 95 by V Rajaraman, Prentice Hall of India 2001 10 Computer Programming in C by V Rajaraman, Prentice Hall of India 11 Mathematica by Examples, revised dition, Martha L

### **PH 532: NUMERICAL METHODS AND COMPUTATIONAL PHYSICS ...**

Numerical Differentiation Forward, backward and centred difference formulae Solution of Ordinary Differential Equations Euler's method, second and fourth order Runge-Kutta methods, finite difference method, boundary value problems Numerical Integration Trapezoidal and Simpson and Gaussian Quadratures rules, applications Monte-Carlo Methods