

QUESTION PAPER CODE : 10401

B.E./B.TECH. DEGREE EXAMINATION,

MAY/JUNE 2012.

Fourth Semester

Mechanical Engineering

MA 2266/181402/MA 42/MA 1254/10177 SN 401/080120014--

**STATISTICS AND NUMERICAL METHODS**

(Common to Automobile Engineering and Production Engineering)

(Regulation 2008)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A--(10 × 2 = 20 marks)

1. Define Type - I error and Type - II error.
2. State the applications of Chi-square test.
3. State the assumptions involved in ANOVA.
4. What are the advantages of a Latin square design?
5. Arrive a formula to find the value of  $\sqrt[3]{N}$ , where  $N \neq 0$ , using Newton-Raphson method.
6. Solve the following system of equations, using Gauss-Jordan elimination methods  $2x + y = 3$ ,  $x - 2y = -1$ .
7. Form the divided difference table for the following data:
 

x :	5	15	22
y :	7	36	160
8. Evaluate  $\int_{0.5}^1 \frac{dx}{x}$  by Trapezoidal rule, dividing the range into 4 equal parts.
9. State the merits of RK - method over Taylor series method.
10. Write the central difference approximations for  $\frac{dy}{dx}$ ,  $\frac{d^2y}{dx^2}$ .

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# Statistics And Numerical Methods 1st Edition

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### **[PDF] MA6452 Statistics and Numerical Methods Lecture ...**

Numerical differentiation and Integration: Numerical differentiation, Numerical integration using Trapezoidal Rule, Simpson's 1/3rd and 3/8th rules Numerical solution of 1st and 2nd order differential equations: Taylor series, Euler's Method, Modified Euler's Method, Runge-Kutta Method for 1st and 2 nd Order Differential Equations. IV

### **Numerical and Statistical Methods - Bsc. I.T.**

Chapter 3: Descriptive Statistics: Numerical Methods Use R to find the 90th percentile, the 1st, 2nd, and 3rd quartiles as well as the minimum and maximum values of the LakeHuron data set. (Recall that R has a number of data sets included in its basic installation; LakeHuron is the name of the data set that contains the "level of Lake Huron 1875 - 1972."

### **Chapter 3: Descriptive Statistics: Numerical Methods ...**

Title: Statistics And Numerical Methods 1st Edition Author: Nicole Bauer Subject: Statistics And Numerical Methods 1st Edition Keywords: Statistics And Numerical Methods 1st Edition,Download Statistics And Numerical Methods 1st Edition,Free download Statistics And Numerical Methods 1st Edition,Statistics And Numerical Methods 1st Edition PDF Ebooks, Read Statistics And Numerical Methods 1st ...

### **Statistics And Numerical Methods 1st Edition**

This course consists of two components - one on numerical methods and one on statistics. Each component has one 2 hour lecture and one tutorial or laboratory class per week. This course is administered by the School of Mathematics and Statistics. In Semester 1, 2015 it will be taught using the combined resources and staff of the School of Mathematics and Statistics and School of Mechanical ...

### **MATH2089 NUMERICAL METHODS and STATISTICS Semester 1, 2016**

The data obtained in original form are called "numerical methods textbook numerical analysis may 1st, 2018 - old dominion university college of sciences department of mathematics and statistics a numerical methods and analysis textbook" 'numerical methods statistics for engineers rmit university 13 / 25

### **Numerical And Statistical Method**

Statistical and numerical analysis are among the most important applications in scientific and engineering programming. This chapter describes algorithms for basic descriptive statistics and for some standard problems in numerical analysis, including:

### **Basic Statistics and Numerical Analysis | SpringerLink**

18.335J Introduction to Numerical Methods (Fall 2010) 18.335J Introduction to Numerical Methods (Fall 2006) 18.335J Numerical Methods of Applied Mathematics I (Fall 2001) 18.335J Introduction to Numerical Methods (Fall 2004)

### **Introduction to Numerical Methods | Mathematics | MIT ...**

Anna University MA6452 Statistics and Numerical Methods Syllabus Notes 2 marks with answer is provided below. MA6452 Notes Syllabus all 5 units notes are uploaded here. here MA6452 SNM Syllabus notes download link is provided and students can download the MA6452 Syllabus and Lecture Notes and can make use of it.

### **MA6452 Statistics and Numerical Methods Syllabus Notes 2 ...**

All dates: Seminar Room 1st floor, Department of Statistics, Via Belle Arti 41, Bologna. Prof.ssa Renata Bottazzi. Thu 13/02 10:00 - 12:00 ANNULLATA Fri 14/02 10:00 - 12:00 ANNULLATA Mon 17/02 10:00 - 13 00 Tue 18/02 10:00 - 13:00 Mon 24/02 10:00 - 13:00 Wed 28/02 13:00 - 16:00 RECUPERI. Tue 17/03, 1-4 pm. Thu 19/03, 10am - 1pm After completing the course students should have an understanding ...

### **Numerical methods in economics – Statistics – Phd programme**

Previous Year Question Papers for MECH 4th SEM MA8452 Statistics and Numerical Methods, ... CSE 1st SEM; August 19, 2019 0. MA8151 EM-I Question Papers, Engineering Mathematics - I Previous Year Question Papers - CSE 1st SEM; Comments are closed. Recent Posts. EC8393 DS Syllabus, Data Structures in C Syllabus - 3rd SEM Reg 2017; CS8493 OS Syllabus, OPERATING SYSTEMS Syllabus - IT 4th ...

### **MA8452 SNM Question Papers, Statistics and Numerical ...**

When working with statistics, it's important to recognize the different types of data: numerical (discrete and continuous), categorical, and ordinal. Data are the actual pieces of information that you collect through your study. For example, if you ask five of your friends how many pets they own, they might give you the following data: 0, 2, 1, 4, 18. (The fifth friend might count each of ...

### **Types of Statistical Data: Numerical, Categorical, and ...**

Statistics & Numerical Methods II: Coordinating Unit: School of Mathematical Sciences: Term: Semester 2: Level: Undergraduate: Location/s: North Terrace Campus: Units: 3: Contact: Up to 5 hours per week. Available for Study Abroad and Exchange: Y: Prerequisites: MATHS 1012 and (ENG 1002 or ENG 1003 or COMP SCI 1012 or COMP SCI 1101 or COMP SCI 1102 or COMP SCI 1201 or MECH ENG 1100 or MECH ENG ...

### **MATHS 2107 - Statistics & Numerical Methods II | Course ...**

An Introduction to Business Research Methods. Engineering Mathematics: YouTube Workbook. Applied Statistics. Applied Business Analysis. Descriptive Statistics. A Handbook of Statistics. Integration and differential equations. Elementary Algebra Exercise Book I. Decision-Making using Financial Ratios. Mathematics Fundamentals. Essential ...

### **Statistics & Mathematics books | Free to download**

Descriptive Statistics: Numerical Methods, Part 1 Measures of Location The Mean The Median The Mode Percentiles Quartiles Mean Sample Mean Example: College Class Size Population Mean ( ) Median The College Class Size example Median Starting Salary For a Sample of 12 Business School Graduates Mode Using Excel to Compute the Mean, Median, and Mode The Starting Salary Example Percentiles ...

### **Descriptive Statistics: Numerical Methods**

NUMERICAL AND STATISTICAL METHODS FOR FINANCE Oggetto: Academic year 2018/2019 Course ID ECO0152 Teaching staff Stefano Favaro (Lecturer) Raffaele

Argiento (Lecturer) Degree course Finance Insurance and Statistics Year 1st year Teaching period First semester Type Distinctive Credits/Recognition 12 Course disciplinary sector (SSD) SECS-S/01 - statistica Delivery Formal authority Language ...

### **NUMERICAL AND STATISTICAL METHODS FOR FINANCE ...**

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