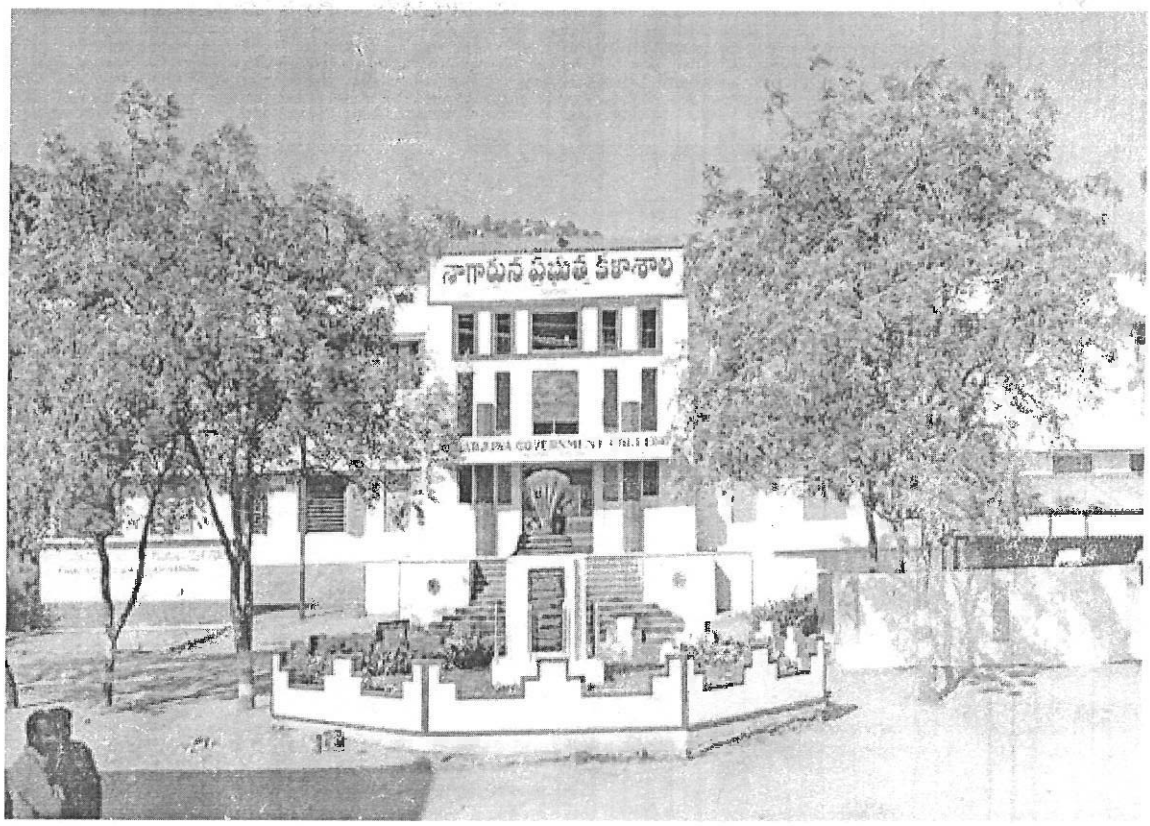
NAGARJUNA GOVERNMENT COLLEGE, NALGONDA
(Autonomous) Reaccredited by NAAC with 'A' Grade
(Affiliated to Mahatma Gandhi University)
(www.ngcnalgonda.org)

BOARD OF STUDIES 2019-2020



DEPARTMENT OF STATISTICS

NAGARJUNA GOVERNMENT COLLEGE, NALGONDA

NAGARJUNA GOVERNMENT COLLEGE, NALGONDA

(Autonomous, Accredited by NAAC with "A" Grade)

DEPARTMENT OF STATISTICS

BOARD OF STUDIES MEETING

The members of Board of Studies in Statistics Department, N. G. College, Nalgonda met under the chairmanship of N.Narsimha on 07-NOV-2019 at Department of Statistics, N.G.College, discussed the following agenda and passed the resolutions.

AGENDA

1. To consider and approve the Choice Based Credit System (CBCS) and Cumulative Grade Point Average (CGPA) system for B. Sc(M.S.Cs) I & II Year students for the academic year 2019-20.

2. To consider and approve the syllabus for B.Sc(M.S.Cs) I & II year (I, II, III & IV Semesters) for the academic year 2019-20.

3. To consider and approve the modules (Units) and setting of Question papers as 70:30 for Theory External and Internal assignments for B.Sc(M.S.Cs) I & II Year (I, II, III & IV Semesters) for the academic year 2019-20.
4. To consider and approve the Syllabus of practical examinations at the end of semesters for B.Sc(M.S.Cs) I & II year students.
5. To consider and approve the model question papers for B.Sc(M.S.Cs) I & II year for the academic year 2019-20.
6. To consider and approve the list examiners for paper setting and evaluation for the academic year 2019-20

Any other related academic matters.

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RESOLUTIONS

BOS was conducted on 07-11-2019 at Department of Statistics, UCS,OU 2 PM

The Chairman of BOS welcomed the BOS members

1. It is resolved to divide and approve the syllabus into 4 units for B.Sc(M.S.Cs) I, II, III & IV semesters

2 It is resolved to evaluate the 100 marks for theory in the ratio70:30;
   (i) 70 marks for external
   (ii) 30 marks for internal [20(assessment)+5(seminor)+5(assignent)]

3. Approved the model question paper for internal, theory and practical of B.Sc(M.S.Cs) I, II, III & IV semesters
4. It is resolved to approve the syllabus of SEC for B.Sc(M.S.Cs) III & IV semesters respectively
5. Approved the list of panel examiners for setting and valuation of B.Sc(M.S.Cs) for theory and practical for the academic year 2019-20
6. The meeting is ended by tanking the chair and members of BOS

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PANEL OF EXAMINERS (2019-20):

1. Sri.Vilas, lecturer in Statistics, Kakathiya Degree College, Nalgonda, 7799589374
2. Dr. D. Lalitha devi , Asst. Prof. in Statistics, Kasthooribha Gandhi College, Maredpally, Secundrabad
3. Yogendhar, lecturer in statistics, St.franicis degree college, Begumpet
4. Dr.Lakshmi sujatha, Asst. Prof. in Statistics, Nizam college(A),Hyderabad, 9177507545
5. G .Sunitha , Asst. Prof. in Statistics, GDCW, Begumpet
6. Dr.G.Lavanya, lecturer in statistics , TSWRDC,Nalgonda, 9948470727

SIGNATURES OF THE MEMBERS.

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NAGARUJUNA GOVT.COLLEGE (AUTONOMOUS), NALGONDA
(Reaccredited by NAAC with "A" Grade)

ALLOCATION OF CREDITS AT SUBJECT LEVEL

Course: SCIENCE **Subject: Statistics**

S.No	Semester	Model (Paper)	Hours Per week	Max.Marks	Credits
1	I (Core)	Descriptive statistics and probability	4	100	3
2	Practical	Descriptive statistics and probability	3	50	2
3	II (Core)	Probability distributions	4	100	3
4	Practical	Probability distributions	3	50	2
5	III(Core)	Statistical Methods	4	100	3
6	Practical	Statistical Methods	3	50	2
7	IV(core)	Statistical Inference	4	100	3
8	Practical	Statistical Inference	3	50	2

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NAGARJUNA GOVERNMENT COLLEGE, NALGONDA

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SYLLABUS FOR STATISTICS (NEW CBCS)

B.Sc. I Year - I Semester – MODULE – I (w.e.f. 2019-20)

Unit –I

Descriptive Statistics: Concept of primary and secondary data. Methods of collection and editing of primary data. Designing a questionnaire and a schedule. Sources and editing of secondary data. Classification and tabulation of data. Measures of central tendency (mean, median, mode, geometric mean and harmonic mean) with simple applications. Absolute and relative measures of dispersion (range, quartile deviation, mean deviation and standard deviation) with simple applications. Importance of moments, central and non-central moments, and their interrelationships, Sheppard's corrections for moments for grouped data. Measures of skewness based on quartiles and moments and kurtosis based on moments with real life examples.

Unit -II

Probability: Basic concepts in probability—deterministic and random experiments, trail, outcome, sample space, event, and operations of events, mutually exclusive and exhaustive events, and equally likely and favourable outcomes with examples. Mathematical, statistical and axiomatic definitions of probability with merits and demerits. Properties of probability based on axiomatic definition. Conditional probability and independence of events. Addition and multiplication theorems for n events .Boole's inequality and Bayes' theorem. Problems on probability using counting methods and theorems.

Unit -III

Random Variables: Definition of random variable, discrete and continuous random variables, functions of random variables, probability mass function and probability density function with illustrations. Distribution function and its properties. Transformation of one-dimensional random variable (simple 1-1 functions only).Notion of bivariate random variable, bivariate distribution and statement of its properties. Joint, marginal and conditional distributions. Independence of random variables.

Unit -IV

Mathematical Expectation: Mathematical expectation of a function of a random variable. Raw and central moments and covariance using mathematical expectation with examples.

Addition and multiplication theorems of expectation. Definition of moment generating function (m.g.f), cumulant generating function (c.g.f), probability generating function (p.g.f) and characteristic function (c.f) and statements of their properties with applications. Chebyshev's , and Cauchy-Schwartz's inequalities and their applications.

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(Autonomous, Accredited by NAAC with "A" Grade)
B.Sc. I Year: Statistics Syllabus
(With Mathematics Combination)
(Examination at the end of Semester I)
Practical Paper – I

1. Basics of Excel- data entry, editing and saving, establishing and copying formulae, built in Functions in excel, copy and paste and exporting to MS word document. (Not for The Examination).
2. Graphical presentation of data (Histogram, frequency polygon, Ogives).
3. Graphical presentation of data (Histogram, frequency polygon, Ogives) using MS Excel
4. Diagrammatic presentation of data (Bar and Pie).
5. Diagrammatic presentation of data (Bar and Pie) using MS Excel
6. Computation of non-central and central moments – Sheppard's corrections for grouped data.
7. Computation of coefficients of Skewness and Kurtosis – Karl Pearson's and Bowley's Beta 1 and Beta 2.
8. Computation of Measures of central tendency, dispersion, Coefficient of Variation and coefficients of Skewness, Kurtosis using MS Excel.

List of reference books:

1. Charles M.Grinstead and Laurie Snell, J:Introduction to Probability, American Mathematical Society
2. Willam Feller: Introduction to Probability theory and its applications. Volume – I,Wiley
3. V.K.Kapoor and S.C.Gupta : Fundamentals of Mathematical Statistics, Sultan Chand & Sons, New Delhi
4. GoonAM,GuptaMK,Das Gupta B : Fundamentals of Statistics , Vol-I, the World Press Pvt.Ltd.,Kolakota.
5. Hoel P.G: Introduction to mathematical statistics, Asia Publishing house.
6. M.JaganMohan Rao and Papa Rao: A Text book of Statistics Paper-I.
7. Sanjay Arora and BansiLal: New Mathematical Statistics : Satya Prakashan , New Delhi
8. Hogg.Tanis.Rao: Probability and Statistical Inference. 7th edition. Pearson
9. SambhavyataAvadhiSiddantalu—TeluguAcademy
10. Sahasambandham-VibhajanaSiddantamulu – TeluguAcademy
11. K.V.S. Sarma: Statistics Made Simple: do it yourself on PC. PHI
12. Gerald Keller: Applied Statistics with Microsoft excel. Duxbury, Thomson Learning.
13. Levine, Stephen, Krehbiel, Berenson: Statistics for Managers using Microsoft Excel 4th edition. Pearson Publication.

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NAGARJUNA GOVERNMENT COLLEGE, NALGONDA

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SYLLABUS FOR STATISTICS (CBCS)

B.Sc. I Year - II Semester –MODULE II (w.e.f. 2019-20)

Unit-I

Discrete distributions – I : Uniform and Bernoulli distributions : definitions, mean, variance and simple examples. Definition and derivation of probability mass functions of Binomial distribution, Poisson distribution, properties of these distributions: median, mode, m.g.f, c.g.f., p.g.f., c.f., and moments upto fourth order, reproductive property (wherever exists) and their real life applications. Poisson approximation to Binomial distribution.

Unit-II

Discrete distributions – II: Negative binomial, Geometric distributions: Definitions and real life applications, properties of these distributions: m.g.f, c.g.f., p.g.f., c.f. and moments upto fourth order, reproductive property (wherever exists), lack of memory property for Geometric distribution. Poisson approximation to Negative binomial distribution. Hyper-geometric distribution: definition, real life applications, derivation of probability function, mean, variance. Binomial approximation to Hyper-geometric distribution.

Unit-III

Continuous distributions – I : Rectangular and Normal distributions – definition, properties such as m.g.f., c.g.f., c.f. and moments up to fourth order, reproductive property, wherever exists and their real life applications. Normal distribution as a limiting case of Binomial and Poisson distributions.

Unit-IV

Continuous distributions – II: Exponential, Gamma distributions - definition, properties: m.g.f., c.g.f., c.f. and moments upto fourth order, reproductive property (wherever exists) and their real life applications. Beta distribution of two kinds: Definitions, mean and variance. Cauchy distribution - Definition and c.f.. Definition of convergence in Law, in probability and with probability one or almost sure convergence. Definition of Weak Law of Large Numbers (WLLN) and Strong Law of Large numbers (SLLN). Definition of Central Limit Theorem (CLT) for identically and independently distributed (i.i.d) random variables with finite variance.

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List of reference books:

1. Goon A M, Gupta M K, Das Gupta B : Fundamentals of Statistics, (Vol-I), The World Press (Pvt) Ltd., Kolkata.
2. Hoel P.G: Introduction to Mathematical Statistics, Asia Publishing house.
3. M. Jagan Mohan Rao and Papa Rao: A Text book of Statistics (Paper-I).
4. Sanjay Arora and Bansilal: New Mathematical Statistics, Satya Prakashan , New Delhi.
5. V. K. Kapoor and S. C. Gupta: Fundamentals of Mathematical Statistics, Sultan Chand & Sons, New Delhi.
6. William Feller: Introduction to Probability theory and its applications, (Vol-I), Wiley.
7. Hogg,Tanis, Rao: Probability and Statistical Inference, (7th edition), Pearson.
8. K.V.S. Sarma: Statistics Made Simple: Do it yourself on PC, PHI.
9. Levine, Stephen, Krehbiel, Berenson: Statistics for Managers using Microsoft Excel (4th edition), Pearson Publication.

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NAGARJUNA GOVERNMENT COLLEGE, NALGONDA

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B.Sc. I Year: Statistics Syllabus

(With Mathematics Combination)

(Examination at the end of Semester I)

Practical Paper – I I

1. Fitting of Binomial distribution – Direct method.
2. **Fitting of Binomial distribution – Direct method using MS Excel.**
3. Fitting of binomial distribution – Recurrence relation Method.
4. Fitting of Poisson distribution – Direct method.
5. **Fitting of Poisson distribution – Direct method using MS Excel.**
6. Fitting of Poisson distribution - Recurrence relation Method.
7. Fitting of Negative Binomial distribution.
8. Fitting of Geometric distribution.
9. Fitting of Normal distribution – Areas method.
10. Fitting of Normal distribution – Ordinates method.
11. Fitting of Exponential distribution.
12. **Fitting of Exponential distribution using MS Excel.**
13. Fitting of a Cauchy distribution.
14. **Fitting of a Cauchy distribution using MS Excel.**

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NAGARJUNA GOVERNMENT COLLEGE, NALGONDA

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SYLLABUS FOR STATISTICS (CBCS)

B.Sc. II Year - III Semester –MODULE III (w.e.f. 2019-20)

Unit –I

Bivariate data, Scattered diagram, Principle of least squares, fitting of straight line, quadratic and power curves. Concept of correlation, computation of Karl-Pearson correlation coefficient for grouped and ungrouped data and its properties. Correlation ratio, Spearman's rank correlation coefficient and its properties. Simple linear regression, correlation verses regression, properties of regression coefficients.

Unit –II

Concepts of partial and multiple correlation coefficients (only for three variables) . Analysis of categorical data, their independence, Association and partial association of attributes. Various measures of association: (Yule's) for two way data and coefficient of contingency (Pearson and Tcherprow) and coefficient of colligation.

Unit – III

Concepts of Population, Parameter, Random sample, Statistic, Sampling distribution and Standard error. Standard error of sample mean(s) and sample proportion(s) . Exact sampling distributions - Statement and properties of chi-square, t and F distributions and their interrelationships. Independence of sample mean and variance in random sampling from normal distributions .

Point estimation of a parameter , concept of bias and mean square error of an estimate. Criteria of a good estimator- consistency, unbiasedness , efficiency and sufficiency with examples.

Unit – IV

Statement of Neyman's Factorization theorem, derivations of sufficient statistics in case of Binomial, Poisson, Normal and Exponential (one parameter only) distributions. Estimation by the method of moments, Maximum likelihood estimation (MLE), statements of asymptotic properties of MLE.

Concept of interval estimation . Confidence intervals of the parameters of normal population by Pivot method .

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List of Reference Books:

1. V.K.Kapoor and S.C.Gupta: Fundamentals of Mathematical Statistics, Sultan
2. Chand & Sons, New Delhi
3. Goon AM, Gupta MK, Das Gupta B : Outlines of Statistics , Vol-II, the World Press Pvt.Ltd., Kolakota.
4. Hoel P.G: Introduction to mathematical statistics, Asia Publishing house.
5. Sanjay Arora and BansiLal:. New Mathematical Statistics Satya Prakashan , New Delhi
6. Hogg and Craig :Introduction to Mathematical statistics. Prentice Hall
7. Siegal.S , and Sidney: Non-parametric statistics for Behavioral Science. McGraw Hill.
8. Gibbons J.D and Subhabrata Chakraborti: Nonparametric Statistical Inference. Marcel Dekker.
9. Parimal Mukhopadhyay: Mathematical Statistics. New Central Book agency.
10. Conover : Practical Nonparametric Statistics. Wiley series.
11. V.K .Rohatgi and A.K.Md. Ehsanes Saleh: An introduction to probability and statistics. Wiley series.
12. Mood AM, Graybill FA, Boe's DC. Introduction to theory of statistics. TMH
13. Paramiteyamariyuaparameteyaparikshalu. Telugu Academy.
14. K.V.S. Sarma: Statistics Made simple do it yourself on PC. PHI
15. Gerald Keller: Applied Statistics with Microsoft excel. Duxbury. Thomson Learning
16. Levin, Stephan, Krehbiel, Berenson: Statistics for Managers using Microsoft Excel.4th edition. Pearson Publication.
17. Hogg, Tanis, Rao. Probability and Statistical Inference.7th edition. Pearson Publication.
18. Milton and Arnold(fourth Edition):Introduction to Probability and statistics,Tata Mcgraw hill Publication.

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NAGARJUNA GOVERNMENT COLLEGE, NALGONDA

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B.Sc. II Year: Statistics Syllabus

(With Mathematics Combination)

(Examination at the end of Semester II)

Practical Paper – III

Part – A (Manual)

1. Generation of random samples from Uniform (0,1), Uniform (a,b) and exponential Distributions.
2. Generation of random samples from Normal and Poisson distributions.
3. Fitting of straight line and parabola by the method of least squares.
4. Fitting of power curves of the type $y= a\ x^b$, $y=a\ b^x$ and $y=a\ e^{bx}$ by the method of least squares.
5. Computation of Yule's coefficient of association.
6. Computation of Pearson's, Tcherprows coefficient of contingency.
7. Computation of correlation coefficient and regression lines for ungrouped data.
8. Computation of correlation coefficient, forming regression lines for ungrouped data.
9. Computation of correlation coefficient, forming regression lines for grouped data.
10. Computation of multiple and partial correlation coefficients.
11. Computation of correlation ratio

Part – B (Using Excel)

12. **Simulation of random samples from Uniform (0,1), Uniform (a,b), Exponential, Normal and Poisson distributions using MS Excel.**
13. **Fitting of straight line and parabola by the method of least squares using MS Excel.**
14. **Fitting of power curves of the type $y= a\ x^b$, $y=a\ b^x$ and $y=a\ e^{bx}$ by the method of least squares using MS Excel.**
15. **Computation of correlation coefficient, forming regression lines using MS Excel.**
16. **Computation of multiple and partial correlation coefficients using MS Excel.**

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NAGARJUNA GOVERNMENT COLLEGE, NALGONDA

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SYLLABUS FOR STATISTICS (CBCS)

B.Sc. II Year - IV Semester –MODULE IV (w.e.f. 2019-20)

Unit–I

Concepts of statistical hypotheses, Null and Alternative hypothesis, Critical region, two types of errors, Level of significance and Power of a test. One and two tailed tests, test function (nonrandomized and randomized). Statement and Proof of Neyman-Pearson's fundamental lemma for Randomized tests. Examples in case of Binomial, Poisson, Exponential and Normal distributions and their power of the test functions.

Unit-II

Large sample tests for single sample mean, difference of means, single sample proportion, difference of proportions and difference of standard deviations. Fisher's Z-transformation for population correlation coefficient(s) and testing the same in case of one sample and two samples . Definition of order statistics and statement of their distributions.

Unit – III

Tests of significance based on chi-square-test for specified variance, goodness of fit and test for independence of attributes (rxs, 2xk and 2x2 contingency tables). Tests of significance based on student's - t-test for single sample specified mean, difference of means for independent and related samples, sample correlation coefficient. F - test for equality of population variances.

Unit – IV

Non-parametric tests - their advantages and disadvantages, comparison with parametric tests. Measurement scale - nominal, ordinal, interval and ratio. Use of Central Limit Theorem in testing. One sample runs test, sign test and Wilcoxon-signed rank tests (single and paired samples). Two independent sample tests: Median test, Wilcoxon –Mann-Whitney U test, Wald Wolfowitz's runs test. Use of central limit theorem in testing.

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List of Reference Books:

1. V.K.Kapoor and S.C.Gupta: Fundamentals of Mathematical Statistics, Sultan Chand & Sons, New Delhi
2. Goon AM, Gupta MK, Das Gupta B : Outlines of Statistics , Vol-II, the World Press Pvt.Ltd., Kolakota.
3. Hoel P.G: Introduction to mathematical statistics, Asia Publishing house.
4. Sanjay Arora and BansiLal:. New Mathematical Statistics Satya Prakashan , New Delhi
5. Hogg and Craig :Introduction to Mathematical statistics. Prentice Hall
6. Siegal.S , and Sidney: Non-parametric statistics for Behavioral Science. McGraw Hill.
7. Gibbons J.D and Subhabrata Chakraborti: Nonparametric Statistical Inference. Marcel Dekker.
8. Parimal Mukhopadhyay: Mathematical Statistics. New Central Book agency.
9. Conover : Practical Nonparametric Statistics. Wiley series.
10. V.K .Rohatgi and A.K.Md. Ehsanes Saleh: An introduction to probability and statistics. Wiley series.
11. Mood AM, Graybill FA, Boe's DC. Introduction to theory of statistics. TMH
12. Paramiteyamariyuaparameteyaparikshalu. Telugu Academy.
13. K.V.S. Sarma: Statistics Made simple do it yourself on PC. PHI
14. Gerald Keller: Applied Statistics with Microsoft excel. Duxbury. Thomson Learning
15. Levin, Stephan, Krehbiel , Berenson: Statistics for Managers using Microsoft Excel.4th edition. Pearson Publication.
16. Hogg, Tanis, Rao. Probability and Statistical Inference.7th edition. Pearson Publication.

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NAGARJUNA GOVERNMENT COLLEGE, NALGONDA

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B.Sc. II Year: Statistics Syllabus

(With Mathematics Combination)

(Examination at the end of Semester II)

Practical Paper – IV

Part – A (Manual)

1. Large sample tests for mean(s), proportion(s), Standard deviation(s) and correlation coefficient.
2. Small sample tests for single mean and difference of means and correlation coefficient.
3. Paired t-test.
4. Small sample test for single and difference of variances.
5. chi-square– test for goodness of fit and independence of attributes.
6. Nonparametric tests for two independent samples (Median test, Wilcoxon Mann Whitney – U test, Wald – Wolfowitz 's runs test)

Part – B (Using Excel)

7. Small sample tests for mean(s), paired t-test and correlation coefficient using MS Excel.

8. Small sample test for single and difference of variances using MS Excel.

9. · 2 – test for goodness of fit and independence of attributes using MS Excel.

10. Nonparametric tests for single and related samples (sign test and Wilcoxon signed rank test) and one sample runs test.

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Faculty of Science
B. Sc I/II Semester Examination
STATISTICS MODEL PAPER (CBCS)

Time: 2 ½ Hrs **Max.Marks: 70**

SECTION – A (5 X 2 = 10)

Answer the following questions :(At least one question from each section)

1.
2.
3.
4.
5.

SECTION – B (4 X 5 =20)

Answer any **FOUR** of the following questions :(At least one question from each section)

6.
7.
8.
9.
10.
11.

SECTION – C (4 X 10 = 40)

Answer the following questions

12 (a) Unit – I

(OR)

(b) Unit – I

13 (a) Unit – II

(OR)

(b) Unit – II

14 (a) Unit – III

(OR)

(b) Unit – III

15 (a) Unit – IV

(OR)

(b) Unit – IV

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Faculty of Science
B. Sc I/II SEMESTER
INTERNAL ASSESSMENT
STATISTICS MODEL PAPER (CBCS)

Time: 50 min Max.Marks: 20

SECTION – A (5 X 1= 5)

Answer the following questions :

1.
2.
3.
4.
5.

SECTION – B (5 X1=5)

Answer the following questions by choosing the correct option:

6.
7.
8.
9.
10.

SECTION – C (2 X 5= 10)

Answer any **TWO** questions from the following

11.
12.
13.
14.

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Faculty of Science
B. Sc III/IV Semester Examination
STATISTICS MODEL PAPER (CBCS)

Time: 2 ½ Hrs **Max.Marks: 70**

SECTION – A (5 X 2 = 10)

Answer the following questions :(At least one question from each section)

1.
2.
3.
4.
5.

SECTION – B (4 X 5 =20)

Answer any **FOUR** of the following questions :(At least one question from each section)

6.
7.
8.
9.
10.
11.

SECTION – C (4 X 10 = 40)

Answer the following questions

12 (a) Unit – I

(OR)

(b) Unit – I

13 (a) Unit – II

(OR)

(b) Unit – II

14 (a) Unit – III

(OR)

(b) Unit – III

15 (a) Unit – IV

(OR)

(b) Unit – IV

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Faculty of Science
B. Sc III /IV SEMESTER
INTERNAL ASSESSMENT
MODEL PAPER (CBCS)

Time: 50 min **Max.Marks: 20**

SECTION – A (5 X 1= 5)

Answer the following questions :

1.
2.
3.
4.
5.

SECTION – B (5 X1=5)

Answer the following questions by choosing the correct option:

6.
7.
8.
9.
10.

SECTION – C (2 X 5= 10)

Answer any **TWO** questions from the following

11.
12.
13.
14.

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NAGARJUNA GOVERNMENT COLLEGE: NALGONDA
(AUTONOMOUS)
DEPARTMENT OF STATISTICS
Constitution of Board of Studies 2019-20

S.NO	CATEGORY	NAME & DESIGNATION
1	Chairman Board of studies	HOD & In-Charge Department of Mathematics N. G. College, Nalgonda
2	University Nominee	Dr.K.Vani , Asst. Prof . of Statistics Dept. of Statistics, Osmania university
3	Subject Expert from out side the college	T.Veda vathi Asst. Prof. of Statistics Government City College
4	Subject Expert from out side the college	Dr. D.Lalitha devi Asst. Prof. of statistics Kasthooribha Gandhi college, Maredpally, secundrabad
5	Members: All the Faculty members of the Dept.	Faculty in Statistics

Submitted by

In-Charge Chairman BOS

Proposals approved by
Principal/Chairman Academic Council

NAGARJUNA GOVERNMENT COLLEGE : NALGONDA
(AUTONOMOUS)

No: /BOS/Stats/Acad/2019-20 DATE: 07-11-2019

TO
Dr.K.Vani
Associate professor,
Department of statistics,
UCS,Osmania University,
Hyderabad,

From
Principal
NG College
Nalgonda

SUB: Nagarjuna Govt. College , Nalgonda (Autonomous) – convening the meeting of Board of Studies – Statistics on 07-11-2019 - Intimation – Request – Reg.

Sir,

I am happy to inform that you have been nominated as university Nominee of Board of Studies in the Department of Statistics of this college for the year 2019-20.

The meeting of the Board of studies , Statistics will be held on 07-11-2019 in the Department of Statistics to consider the following Agenda.

1. To approve the syllabus and model question papers for I , II. III & IV Semesters.
2. To approve the Introduction of Skill Enhancement Compulsory course (SEC) in the II& IV Semesters.
3. To approve the Internal assessment.
4. To approve the list of examinations for paper setting and evaluation.
5. Any other matter with permission of the chair.

You are requested to make it convenient to attend the meeting and extend your cooperation.

In charge/Chairman BOS
Department of Statistics

Principal

RECEIPT

Received an amount of Rs..... (Rupees ..... Only) from the Principal Nagarjuna Government College, (Autonomous) Nalgonda towards honorarium for attending BOS Meeting in Statistics conducted by Department of Statistics on .

Signature

RECEIPT

Received an amount of Rs..... (Rupees ..... Only) from the Principal Nagarjuna Government College, (Autonomous) Nalgonda towards honorarium for attending BOS Meeting in Statistics conducted by Department of Statistics on

Signature

NAGARJUNA GOVERNMENT COLLEGE: NALGONDA
(AUTONOMOUS)
(Re-Accredited by NAAC with A Grade)

To

From
Principal
Nagarjuna Government College
Nalgonda

Sir,

Sub:- Grant of Autonomous status – Constitution of the Board of Studies in Statistics – request for approval – Reg.

Ref:- 1. No.F.22-1/2007(AC)Date: 03-04-2007.
2.OU Lr.NoMR.69/H/2007/Acad,Date:12-06-2007.
3.GORt.No. 467 HE.(CE-1) Dept. Date: 29-06-2007.
4.MGU Lr.347/MGU/2019-20.Date: 17-08-2017.

With reference to the subject cited, I am pleased to communicate that since our college has Academic Autonomy a Board of Studies (BOS) in Statistics is formed with the following members for the Academic year 2019-20.

S.NO	Name	Designation
1	Chairman Board of studies	HOD & In-Charge Department of Mathematics N. G. College, Nalgonda
2	University Nominee	Dr.K.Vani , Asst. Prof . in Statistics Dept. of Statistics, Osmania university
3	Subject Expert from out side the college	T.Veda vathi, Asst. Prof. in Statistics Government City College
4	Subject Expert from out side the college	Dr. D.Lalitha Devi Asst. Prof. of Statistics Kasthooribha Gandhi college, Maredpally, secundrabad
5	Members: All the Faculty members of the Dept.	Faculty in Statistics

The term of the office of the members of the Board of studies in Statistics shall be for a period of two (2) years with effect from the data of issue of this letter. TA and DA will be paid to the outstation members as per the Government rules whenever they attend the meetings of the Board of Studies.
With regards.

Principal

Copy to all members.
Copy to concerned principal