

GOVERNMENT COLLEGE (AUTONOMOUS) RAJAHMUNDRY

DEPARTMENT OF STATISTICS

Minutes & Resolutions of BOS dated 30-08-2023

A meeting was conducted for Board of Studies on 30-08-2023 from 10.00 to 12.00 am for all the semesters for the UG programmes B.Sc & B.A of second and third years and B.Sc(Honours) Statistics under the chairmanship of Dr N.Madhavi (Lecturer-in-charge, Dept of Statistics) with the committee members through offline/online mode

Agenda Point 1: Program wise Curriculum design for all the semesters

Discussion :

- A discussion was being held among the members regarding the curriculum design for all the semesters of second and third years for all the programmes B.Sc & B.A.
- B.Sc (Honours) with single major subject Statistics and minor subjects was introduced from this academic year onwards and the curriculum design was changed from this year 2023-2024 .
- The syllabus for the second and third year semesters were discussed and decided to continue the same syllabus given as earlier with some added additional inputs into the syllabus.
- Basing on the syllabus prescribed by APSCHE it is decided to frame the syllabus with new papers and titles .
- Elective papers are shown for and the students can choose any one elective from the given electives .
- Also the discussion was held regarding the community service project for semester II students and internships, Apprenticeships for fourth and sixth semesters.

Resolution 1:

- It is resolved to adopt the prescribed syllabus shown for all semesters for all courses
- It is resolved to design the curriculum in such a way that the students must select one elective out of three elective for both B.sc and B.A Programme for fifth semester/sixth semester and accordingly
- Curricular and Co-Curricular activities were to be followed

Resolution 2:

- It is resolved to send the students for Community service project at the end of second semester
- mentors were allotted for the batch of students and the project is to be completed within 8 weeks and 100 marks were allotted for this project.
- Any student who have not undergone the CSP project will be failed.

Resolution 3 :

- It is resolved to send the students of fourth semester for internship/Apprenticeship for about two months and four months internship/ Apprenticeship in fifth or sixth semester

Resolution 4:

- It is also resolved to send the students for internship in fifth semester and some students in sixth semester basing on the guidelines give by college.
- The syllabus given for fifth semester will be followed accordingly.
- Also the syllabus prescribed by APSCHE for fourth year is shown and approved.

Agenda Point 2: Designing of Course Outcomes and Course Objectives:

- **Discussion:** The members thoroughly verified the prepared programme outcomes, course outcomes and course objectives for all the programmes and courses and satisfied.
- **Resolution !:** It is resolved to incorporate the programme outcomes, course outcomes and course objectives for all the programmes and courses in an efficient manner.

- **Resolution 2:** It is resolved to incorporate CO PO mapping for all the programmes and courses and to be given in the syllabus

Agenda Point 3: Identification of unitwise assignment questions and relevant model question paper

- **Discussion:** The members pointed out some important questions for assignment purpose keeping in view of examinations and compulsory questions and model question papers were verified
- **Resolution1 :** It is resolved to give assignment questions as suggested by the members
- **Resolution 2:** It is resolved to prepare relevant model question papers for the syllabus framed.

Agenda Point 4: Identifying inclusion of components of Skill Development, Employability and Entrepreneurship in the course content and specific activity proposed

Discussion:

- **Resolution 1:** Basing on the discussion held, it is resolved to identify skill, employability and Entrepreneurship components by specifying with red, green and Yellow colors .
- **Resolution2 :** It is resolved to specify the activity proposed for skill development, Employability and Entrepreneurship in the course content and to be shown in the syllabus

Agenda Point 5: Additional inputs into the curriculum:

- **Discussion:** discussed about the additional inputs into the curriculum wherever necessary to give clear understanding about the topic and these are not included for exam.
- **Resolution 1:** It is resolved to incorporate additional inputs into the curriculum.

Agenda Point 6: Designing Model question Papers and identifying potential paper Setters

- **Discussion:** The members saw the designed model question papers for all the courses and identified the paper setters from various colleges.
- **Resolution 1:** It is resolved to prepare model question papers for both programmes B.Sc and B.A and the model for all the courses is same
- **Resolution 2:** It is resolved to identify efficient paper setters from various colleges and the list of the paper setters is given in the syllabus.

Agenda Point 7: Innovative Teaching—Learning Methodology (Learner Centric)

- **Discussion:** The various methods of Teaching Learning were discussed by all the members. ICT teaching methodology and Blended mode teaching is given more importance by all the members. Online teaching methodology is also preferred and essential way of teaching learning in the present scenario. Google classroom methodology is also preferred in making the students online tests.
- **Resolution 1:** It is resolved by all members to follow latest methodologies and easy way of Teaching Learning in maintaining the students Standards.
- **Resolution 2:** It is resolved to follow blended mode of teaching besides the lecture method, ICT based method etc.

Agenda Point 8: Academic activities of the Department such as Seminars, fieldworks etc.

- **Discussion:** The department conducts National Statistics day, World population day every year and conducts guest lectures, competitions like elocution, Essay writing, quiz etc . Apart from this the department conducts seminars, webinars, extension lectures, fieldworks etc. Chart Exhibition is also celebrated and outside school students were invited to see the chart exhibition.
- **Resolution 1:** It is resolved to conduct department activities, seminars, webinars, guest lectures, field works etc for the students.
- **Resolution 2:**It is resolved to conduct chart exhibition to increase the knowledge among the students by way of showing the information in the form of charts.

Agenda Point 9: Assessment Component:

The assessment component is designed as follows:

For I ,II and III year students theory examinations: 100 Marks
External Exam: 50Marks
Internal Exam: 50Marks

The internal exam is based on

- 30 marks for internal exams (20 for internal tests and 10 for online exam)
- 5 marks for assignment
- 5 marks for viva
- 5 marks for seminars
- 5 marks for attendance

Community service project is undertaken by second semester students for 100 marks

The 100 marks were allotted as follows

- (i) Project Log Book ----- -20 Marks
- (ii) Project Implementation ----- -30 Marks
- (iii) Project Report Writing ----- -25 Marks
- (iv) Project Viva ----- -25 Marks

Practical Examinations would be conducted at the end of the each semesters for B.Sc & B.A for all the three year students and there will be internal evaluation at the end of 1,3,5semesters and external evaluation at the end of 2, 4, 6 semesters for each year.

Practical internal exam will be conducted for all semesters for 50 marks

Agenda Point 9: Any other proposal with the permission of the chair

- **Discussion:** A Certificate course is being handled by the department at the end of fourth semester and the title is Statistical tools for Research Methodology. It is put before the members to start another certificate course R-Programming” from this academic year
- **Resolution 1:** It is resolved to run the certificate course this year also
- **Resolution 2:**It is resolved to conduct an exam in the certificate course for 50 marks.

Signatures of the members Present

- 1.
- 2.
- 3.
- 4.
- 5.

Chairman
Board of Studies

GOVERNMENT COLLEGE (A) RAJAMAHENDRAVARAM

DEPARTMENT OF STATISTICS

Committee Constituted for Board of Studies Meeting for the year 2023-2024

| Sl. No. | Name | Member |
|---------|---|--------------------|
| 1 | Prof. B.Muniswamy Head, Dept of Statistics & Director, Population Research Centre Andhra University Visakhapatnam | University Nominee |
| 2 | Dr. D.V. Ramana Murthy Head, Dept of Statistics SKVT Govt College Rajahmundry | Subject Expert |
| 3 | Sri M. Kodandaram LIC of India Rajahmundry | Industrial Nominee |
| 4 | Sri.G.S Moses Head, Dept of Statistics DNR College(Autonomous) Bhimavaram, West Godavari | Subject Expert |
| 6. | Mr. J. Naga Sriram Guest faculty in Statistics Govt college(A) Rajamahendravaram | Member |
| 7. | Mr. Ch. Naresh Guest faculty in Statistics Govt College(A) Rajamahendravaram | Member |
| 8. | Ms.K.Suneetha Guest faculty in Statistics Govt College(A) Rajamahendravaram | Member |
| 9. | Student Members 1. K.Jyothi Kalyani(MSAS) II Yr 2. V.Sai Ganesh, II Yr MSCCS 3. Vardhini, ESCOMP | |

DEPARTMENT OF STATISTICS
Approved List of Examiners/ Paper Setters

| Name of the Lecturer/Reader | College | Phone.N | Mail.id |
|-------------------------------------|--|------------|--|
| Sri A. Anand, Lecturer | M.R.College, Vizianagaram | | |
| Dr.C.S.S.R.L.H.Rao, Lecturer | M.R.College, Vizianagaram | 9394066306 | chraomr@gmail.com |
| Dr, P. KondaBabu, Lecturer | M.R.College, Vizianagaram | 9491571046 | kondababupuli@gmail.com |
| Sri G. S Moses, Lecturer | D.N R College, Bhimavaram | 9440185103 | |
| Sri N. Srinivasa Rao, Lecturer | AndhraLoyolaCollege, Vijayawada | | nunnasr@gmail.com |
| Dr. V. RohiniKumari, Lecturer | Govt. College for Men, Ananthapur | 9848236535 | vrohiniikumari@gmail.com |
| Dr.KousarJahaBegum,Lecturer | Govt. College, Chittoor | 9985312244 | begum.kousar123@gmail.com |
| Sri T. Gandhi, Lecturer | Mrs.A.V.N.College,Visakhapatnam | | |
| Sri V. Praveen, Lecturer | A.B.N. College, Kovvur | 8184853368 | |
| Grandhi Prasad, Lecturer | AdityaDegreecollege,Rajahmundry | | |
| Dr.D.V.RamanaMurthy,Lecture | SKVT College, Rajahmundry | 9949135864 | dr.dvvmurthy@gmail.com |
| Sri K. Ashok, Lecturer | SRR&CVR College(A),Vijayawada | 9848505506 | sairamya285@gmail.com |
| Dr.B.ChndraSekharReddy ,Lecturer | S R DegreeCollege, Punganur | 9492376446 | csr.bhumireddy@gmail.com |
| Dr.B.Venkata Ram, Lecturer | SSBN Degree College,Ananthapur | 9440410474 | gsd.atp@gmail.com |
| Dr. V.Munnaih, Lecturer | PVKN.GOV.T.College,Chitturu | 924852594 | drvmstats@gmail.com |
| Dr.N.Madhavi,Lecturer | GOVT.College(A),Rajahmundry | 9951768491 | madhavi.au@gmail.com |
| Dr.A.Kullaya swamy,Lecturer | S.G.College for Degree and PG | 8019114632 | swamy.anchal@gmial.com |
| Dr.R.V.S.Prasad,Lecturer | P.R.R.V.S GOVT college ,Vidava | 9440493600 | drvsstatnlr@gmail.com |
| Dr.Devasena,Lecturer | S.S.B.N Degree college,Ananthpur | 9441469927 | gsd.atp@yahoo.com |
| Dr.D.V.L.N.Jogiraju,Lecturer | B.V.K.Degree College,Visakhaptanam | 9440426883 | Jogiraju76@gmail.com |
| Sri.CH.Naresh,Lecturer | GOVT.College(A),Rajahmundry | 8297826683 | nareshchitturi27@gmail.com |
| Sri.J.Naga Sriram,Lecturer | GOVT.College(A),Rajahmundry | 7382499623 | nagasriram.jonnala@gmail.com |
| K.Suneetha,lecturer | GOVT.College(A),Rajahmundry | 7286038880 | sunithakothuri7215@gmail.com |
| P.Kalyan Kumar, Lecturer | P.R. Govt Collg(A), Kakinada | 7013546994 | |

Signatures

- 1.
- 2.
- 3.
- 4.

Chairman
Board of Studies

**GOVERNMENT COLLEGE (A) RAJAMAHENDRAVARAM
DEPARTMENT OF STATISTICS**

Consolidated Report of Board of Studies for the Year 2023-2024

A meeting was conducted for Board of Studies on 30-08-2023 from 10.00 to 12.00 for all the semesters under the chairmanship of Dr N.Madhavi (Lecturer-in-charge, Dept of Statistics) with the committee members.

The following members were present

| Sl. No. | Name | Member | Signature |
|---------|---|-----------------------|-----------|
| 1 | Prof. B.Muniswamy Head, Dept of Statistics & Director, Population Research Centre Anshra University Visakhapatnam | University Nominee | |
| 2 | Dr. D.V. Ramana Murthy Head, Dept of Statistics SKVT College, Rajahmundry | Subject Expert | |
| 3 | Sri M. Kodandaram LIC of India, Rajahmundry | Industrial Nominee | |
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| 8. | Ms.K.Suneetha Guest faculty in Statistics Govt College(A),Rajahmundry | Member | |
| 9. | Student Members 1. K.Jyothi Kalyani(MSAS) II Yr 2. V.Sai Ganesh, II Yr MSCCS 3. Vardhini, ESCOMP | | |

The following documents are submitted to the Academic Coordinator and Controller of Examinations

1. Syllabus of I, III and V Semesters.
2. Model Question Papers of all the Semesters.
3. List of Revised Examiners.
4. Any other item with the permission of the chair.

Signatures

- 1.
- 2.
- 3.
- 4.

**Chairman
Board of Studies**

Program Specific Outcomes

PROGRAM CODES: B.Sc STATISTICS (HONS)

| Sl. No | Program | PSO |
|--------|-------------------------|---|
| 1. | B.Sc Stat (Hons) | Acquire core knowledge of the basic concepts of statistics which include the major areas of probability theory, probability distributions, distribution theory, statistical inference, survey sampling, designs of experiments, applied statistics, mathematical methods, non- parametric inference and operations research |
| | | Apply the concepts of statistics, Operations Research, Probability theory, Time Series, Designs of Experiment, etc. in real life problems. Practical exercises done will enable students to analyze and interpret data and also to draw valid conclusions. This will enable students to face real time applications. |
| | | Apart from this there is a range of Minor Papers in Computer Science, Physics, Economics etc. which students choose as per their interest and aptitude .This enhances theoretical rigor with technical skills which prepare students to become globally competitive to enter into a promising professional life even after graduation. |
| | | Understand the applications of statistics concept in other disciplines such as mathematics, computers, economics, etc. and also Provides a platform for pursuing higher studies leading to Post Graduate or Doctorate degrees. |

ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION

Revised UG Single Major Syllabus under CBCS

(W.E.F. Academic Year 2023 – 24)

Programme: : B. Sc. (Honours)- STATISTICS

| S.No. | Major | Minor |
|--|---|---|
| Semester 2 | | |
| 3 | Descriptive Statistics | Descriptive Statistics |
| 4 | Random Variables & Mathematical Expectations | |
| Semester 3 | | |
| 5 | Theoretical Discrete Distributions | Statistical Methods |
| 6 | Theoretical Continuous Distributions | |
| 7 | Statistical Methods | |
| 8 | Statistical Inference – I | |
| Semester 4 | | |
| 9 | Theory of Sampling | Design of Experiments |
| 10 | Design of Experiments | Numerical Analysis |
| 11 | Numerical Analysis – I | |
| Semester 5 | | |
| 12 | Applied Statistics – I | Applied Statistics – I |
| 13 | Computational Techniques and R Programming | Computational Techniques and R Programming |
| 14A | Operations Research – I | |
| 15A | Operations Research – II | |
| | Or | |
| 14B | Statistical Quality Control | |
| 15B | Applied Statistics – II | |
| | Or | |
| 14C | Astrostatistics | |
| 15C | Numerical Analysis – II | |
| Note: Student can choose either 12A & 13A or 12B & 13B or 12C & 13C as SECs in Semester 5 | | |
| Semester 7 | | |
| | Set 1 | Set 2 |
| 16 | Operations Research – III | Actuarial Statistics – I |
| 17 | Multivariate Analysis | Linear Models and Applied Regression Analysis |
| 18 | Sampling Techniques – 2 | Stochastic Process |
| SECs | | |
| 19 | Clinical Trials Analysis – I | Business Analytics |
| 20 | Data Analysis using R | Modern Statistical Analysis |
| Semester 8 | | |
| | Set 1 | Set 2 |
| 21 | Operations Research – IV | Actuarial Statistics – II |
| 22 | Design and analysis of Experiments | Linear Algebra |
| 23 | Statistical Inference – II | Probability and Distributions – II |
| SECs | | |
| 24 | Statistical Techniques for Research Methodology | Biostatistics and Survival Analysis |
| 25 | Econometrics | Data Analysis using SPSS |
| Note: Student can choose either Set 1 or Set 2 in Semester 7 and 8 | | |

B.Sc (Honours) with Single Major

| Semester | Major* (4 Cr) | | | Minor (4 Cr) | | | AECC (3 Cr) | | | Multi Disny' (2 Cr) | | | Skill Enhanceme nt Courses (2Cr) | | | OOTC | | | Env. Edn (2 Cr) | | | Total | | | | | |
|---|--|------|----|-----------------|-----|----|----------------|-------|----|---------------------------|---|----|---|-----------|---------|------|---|----|--------------------|---|-------------|-------------------------------|----|------------|--|--|--|
| | C | H | Cr | C | H | Cr | C | H | Cr | C | H | Cr | C | H | Cr | C | H | Cr | C | H | Cr | C | H | Cr | | | |
| Sem 1 | 2* | 10 | 8 | | | | 2 | 8 | 6 | 1 | 2 | 2 | 2 | 4 | 4 | | | | | | | 7 | 24 | 20 | | | |
| Sem 2 | 2 | 6+4 | 8 | 1 | 3+2 | 4 | 2 | 8 | 6 | | | | 2 | 4 | 4 | | | | | | | 7 | 27 | 22 | | | |
| Community Service Project of 180 hours with 4 Credits. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Student is eligible for Exit Option-1 with the award of Certificate in respective discipline | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sem 3 | 4 | 12+8 | 16 | 1 | 3+2 | 4 | | | | 1 | 2 | 2 | 1 | 2 | 2 | | | | | | | 7 | 29 | 24 | | | |
| Sem 4 | 3 | 9+6 | 12 | 2 | 6+4 | 8 | | | | 1 | 2 | 2 | 1 | 2 | 2 | | | | | | | 7 | 29 | 24 | | | |
| Short-Term Internship/Apprenticeship/OJT of 180 hours with 4 Credits. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Student is eligible for Exit Option-2 with the award of Diploma in respective major with minor | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sem 5 | 4 | 12+8 | 16 | 2 | 6+4 | 8 | | | | | | | | | | | | | 1 | 2 | 2 | 7 | 32 | 26 | | | |
| Sem 6 | Semester Internship/Apprenticeship/OJT with 12 Credits. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Student is eligible for Exit Option-3 with the award of Degree in respesive major | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sem 7 | 3 | 9+6 | 12 | | | | | | | | | | 2* | 6+4 | 8 | 1 | 2 | 2 | 1 | 2 | 0 | 6 | 29 | 22 | | | |
| Sem 8 | 3 | 9+6 | 12 | | | | | | | | | | 2* | 6+4 | 8 | 1 | 2 | 2 | 1 | 2 | 0 | 6 | 29 | 22 | | | |
| | 21 | | 84 | 6 | | | 24 | 4 | | 12 | 3 | 6 | 6 | 10 | 32 | 28 | 2 | 4 | 4 | 2 | 4 | 0 | 47 | 160 | | | |
| 20 Additional Credits for 10 month mandatory Internship/OJT/Apprenticeship | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | Courses | | | | | | H | Hours | | | | | | Cr | Credits | | | | | | OOTC | Open Online Transdisciplinary | | | | | |
| IKS# | Indian Knowledge Systems - Audit Course | | | | | | | | | | | | | | | | | | | | | | | | | | |