

GOVERNMENT COLLEGE(AUTONOMOUS)

RAJAHMUNDRY

NAAC Re-accredited with 'A+' Grade at 3.38 CGPA



Estd: 1853

An Autonomous Institution
since 2000

BOARD OF STUDIES 2024-2025

DEPARTMENT OF STATISTICS
SYLLABUS & MODEL PAPERS

INDEX

S. No	TOPIC	Page No.
1.	Meeting Notice	
2.	Minutes of Meeting & Resolutions	
3.	Committee Constituted for Board of Studies Meeting	
4.	Approved List of Examiners/ Paper Setters	
5.	Consolidated Report of Board of Studies	
6.	Course Structure B.Sc Statistics (Hons)	
7.	Course Structure B.Sc Statistics for III year	
8.	Course Structure B.Sc Actuarial Science for III year	
9.	Course Structure B.A Statistics for III year	
10.	Community Service Project/ Internship/on the job training/Apprentice-ship	
11.	B.Sc Statistics (Hons)- Semester –I -Syllabus & Model Papers	
12.	B.Sc Statistics (Hons)- Semester -II -Syllabus & Model Papers	
13.	B.Sc Statistics (Hons)- Semester –III -Syllabus & Model Papers	
14.	B.Sc Statistics (Hons)- Semester -IV -Syllabus & Model Papers	
15.	B.Sc Statistics III Year Syllabus and Model papers	
16.	B.Sc Actuarial Science III Year Syllabus and Model papers	
17.	B.A Statistics III Year Syllabus and Model papers	
18.	Certificate Course: Statistical Tools for Research Methodology	
19.	Certificate Course: Data Analysis Using R-Programming	
20.	Certificate Course: Statistics for Beginners	



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DEPARTMENT OF STATISTICS

BOARD OF STUDIES 2024-

25

MEETING NOTICE

A meeting of Board of Studies of the Department of Statistics, GOVERNMENT COLLEGE (A), RAJAHMUNDRY will be held on 04-05-2024 at 3:00 PM in the department of Statistics, Government Degree College (A), RAJAHMUNDRY to consider the following Agenda.

Agenda:

Consideration, Ratification and approval of the following for the Academic Year 2024–25

- 1) Curriculum Design for all the semesters.
- 2) Design of Course Outcomes and Course Objectives.
- 3) Identifying / inclusions of components of Skill Development, Employability and Entrepreneurship in the curriculum.
- 4) Additional inputs into the curriculum.
- 5) Designing Model Question Papers and identifying potential paper setters.
- 6) Innovative Teaching-Learning Methodology (Learner Centric)
- 7) Academic activities of the Department.
- 8) Any other proposal with the permission of the chair



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Committee Constituted for Board of Studies Meeting for the year 2024-2025

Sl. No.	Name	Member
1	Dr.N.Madhavi Head, Dept of Statistics Govt College(A), Rajahmundry East Godavari District	Chairman
2	Prof. B.Muniswamy Head, Dept of Statistics & Director, Population Research Centre Andhra University Visakhapatnam	University Nominee
3	Dr. D.V. Ramana Murthy Head, Dept of Statistics SKVT Govt College RAJAHMUNDRY	Subject Expert
4	Sri M. Kodandaram LIC of India RAJAHMUNDRY	Industrial Nominee
6.	Sri.G.S Moses Head, Dept of Statistics DNR College(AUTONOMOUS) Bhimavaram, West Godavari	Subject Expert
7.	Mr. J. Naga Sriram Guest faculty in Statistics Govt college(A)RAJAHMUNDRY	Member
8.	Mr. Ch. Naresh Guest faculty in Statistics Govt College(A)RAJAHMUNDRY	Member

9.	Ms.K.Suneetha Guest faculty in Statistics Govt College(A)RAJAHMUNDRY	Member
10.	Student Members 1. K.Jyothi Kalyani(MSAS) II Yr 2. V.Sai Ganesh, II Yr MSCCS 3. Vardhini, ESCOMP	



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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	vrohinikumari@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
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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,Visakhapatnam	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

Studies

Board of



GOVT COLLEGE (A) : : RAJAHMUNDRY
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DEPARTMENT OF STATISTICS

Consolidated Report of Board of Studies for the Year 2024-2025

A meeting was conducted for Board of Studies on 04-05-2024 from 3.00 PM 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	Dr.N.Madhavi Head, Dept of Statistics Govt College(A), Rajahmundry East Godavari District	Chairman	
2	Prof. B.Muniswamy Head, Dept of Statistics & Director, Population Research Centre Andhra University, Visakhapatnam	University Nominee	
3	Dr. D.V. Ramana Murthy Head, Dept of Statistics SKVT College, RAJAHMUNDRY	Subject Expert	
4	Sri M. Kodandaram LIC of India, RAJAHMUND	Industrial Nominee	

6.	Sri.G.S Moses Head, Dept of Statistics DNR College(AUTONOMOUS) Bhimavaram	Subject Expert	
7.	Mr.J.NagaSriram Guest faculty in Statistics Govt college(A),RAJAHMUNDRY	Member	
8.	Mr. Ch. Naresh Guest faculty in Statistics Govt College(A),RAJAHMUNDRY	Member	
9.	Ms.K.Suneetha Guest faculty in Statistics Govt College(A),RAJAHMUNDRY	Member	
10.	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
Studies**

Board of



**GOVT COLLEGE (A) : : RAJAHMUNDRY
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DEPARTMENT OF STATISTICS**

Minutes & Resolutions of BOS dated 04-05-2024

A meeting was conducted for Board of Studies on 04-05-2024 from 03.00 PM for all the semesters for the UG programmes B.Sc & B.A of 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

The syllabus was discussed for each paper of semesters I,II,III & IV(as per APCHE guidelines) for the admitted batch 2023-2024 and ratified internships as per 2020-2021 .Regulations finalized after suggesting suitable modifications as demands by the trends in the

industry and advances in the technology

The following proposals were submitted for the consideration and approval of the honorable members of the meeting as a part of the agenda.

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 first , second and third years for all the programmes B.Sc & B.A.

Resolutions:

1. It is resolved by all the members of Board of Studies to start B.Sc(Honours) Statistics Programme from this academic year 2023-3034 onwards and the Curriculum design for this programme is approved.
2. It is resolved to offer Indian History as Multidisciplinary Course for all first year Science students, and Entrepreneurship Development and Analytical Skills as Skill Courses for all first year students
3. It is resolved to teach Entrepreneurship Development by the department for first semester B.Sc (Honours) Statistics Students and 2 hrs per week is allotted for Teaching. Multidisciplinary skill course Indian History is handled by History department and Analytical Skills Skill course is handled by Physics department and each 2 hrs per week is allotted with 2 credits each.
4. It is resolved to offer two major papers in semester I
 - (i) Essentials and Applications of Mathematical, Physical and Chemical Sciences
 - (ii) Advances in Mathematical, Physical and Chemical SciencesThe above two major papers are taught by Mathematics, Physics, Chemistry and Computer Science Departments with 5 hrs per week and 4 credit each.
5. It is resolved to offer two papers “Descriptive Statistics” and “Random Variables and Mathematical Expectations” in Semester II with 5 hrs per week with 5 credits each
6. It is resolved to offer minor paper “Descriptive Statistics” for B.Sc(Honours) Statistics from this academic year in Semester II and this is offered for all Arts, Commerce and Biology Students with 5 hrs per week theory-3 + practical-2) and 5 credits (theory-3 + practical-2)
7. It is resolved to study Language Papers English, Telugu/Sanskrit/Hindi in Semesters I and

**II in first and
Second Years.**

**8. It is ratified and approved by the members regarding the syllabus for the second and third year semesters w
and is shown below.**

9. 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.

**10. 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.**

11. It is also resolved to send the students for internship in fifth semester and some students in sixth semester

**12. 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**

**13.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**

**14. It is resolved to teach Life Skill Course “Analytical Skills” for Second years in fourth Semester for all Arts
Students by the department**

15. It is resolved to take up study projects using SPSS Software and R-Programming which is very important

16. 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 first internal tests and 10 for second internal online exam)

**The remaining 20 marks are allotted as follows
5 marks for assignment**

- 5 marks for viva/Projects/Study tours
- 5 marks for seminars/surveys/case studies
- 5 marks for attendance

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 1,3,5 semesters 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

Community service project is undertaken in second semester for 100 marks
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

Marks were allotted for Short term internship in fourth semester and Long term internship in fifth/sixth

semester and internal viva is conducted by college faculty for 100 marks.

- (i) For Short term internship 100 marks were allotted
- (ii) For Long term internship 200 marks were allotted

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.

Resolutions

17. It is resolved to incorporate the programme outcomes, course outcomes and course objectives for all the programmes and courses in an efficient manner.

18. 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 unit wise 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

Resolutions

- 19. It is resolved to give assignment questions as suggested by the members
- 20. 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:

Discussion is being held by all the members regarding Skill development, Employability and Entrepreneurship components.

Resolutions:

21. Basing on the discussion held, it is resolved to identify skill, employability and Entrepreneurship Components by specifying with red, green and Yellow colors .

22. 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:

Dr. B. Muniswamy (University Nominee) discussed about the additional inputs into the curriculum wherever necessary to give clear understanding about the topic and these are not included for exam.

23. It is resolved to incorporate additional inputs into the curriculum wherever it is necessary and is given below in the table

S.No	Name of the Course	Course Code	Total No of Topics (in all units)	No of Topics Added/Replaced	% of Content Added/Replaced
1	Descriptive Statistics	225901	5	5	100%
2	Random Variable and Mathematical Expectations	225902	5	5	100%
3	Statistical Methods	STT403	5	5	100%
4	Statistical Inference	STT404	5	1	10%
5	Sampling Techniques and Design of Experiments	STT405	5	1	10%
6	Optimization Techniques	STT206	5	0	0%
7	Operation Research	STT207	5	0	0%

8	Probability Distributions and Statistical Methods	STT303	5	0	0%
9	Basics of Statistical Inference	STT304	5	0	0%
10	APPLIED STATISTICS	STT305	5	0	0%
11	OPERATION RESEARCH	STT306	5	0	0%
12	OFFICIAL STATISTICS & DESIGN OF EXPERIMENTS	STT307	5	0	0%
13	Basics of Financial Mathematics	SAS101	5	0	0%
14	Survival Models	SAS102	5	0	0%
15	BASICS OF LIFE CONTINGENCY	SAS103	5	0	0%
16	Principles of Insurance	SAS107	5	0	0%
17	Practice of Insurance	SAS108	5	0	0%

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.

Resolutions:

24. It is resolved to prepare model question papers for both programmes B.Sc and B.A and the model for all

the courses are to be maintained in same manner

25. 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.

26. It is resolved by all members to follow latest methodologies and easy way of Teaching Learning in

maintaining the students Standards.

27. 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 and all these activities are put before the members to ratify.

28. It is resolved to conduct department activities, seminars, webinars, guest lectures, field works etc for the
Students

29. 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: 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

30. It is resolved to run the certificate course this year also

31. 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 Studie