

**PROCEEDINGS OF THE PRINCIPAL, GOVERNMENT
COLLEGE(AUTONOMOUS)RAJAMAHENDRAVARAM.**

PRESENT: Dr.RAMACHANDRA R K M.Sc.,,Ph.D.

**RC.NO:SPL./ACAD.CELL-GC[A]-RJY/PGBOS/2024-25,DATED
18.09.2024**

SUB: GOVERNMENTCOLLEGE(AUTONOMOUS) RAJAMAHENDRAVARAM-
BOARD OF STUDIES PG (BOS) –NOMINATION OF MEMBERS –ORDERS ISSUED.

REF: UGC GUIDELINES FOR AUTONOMOUS COLLEGES-2024-2025.

ORDER:

The principal Government College (Autonomous) Rajamahendravaram is pleased to constitute PG board of studies in zoology for framing the syllabi in M.Sc. zoology subject for first year duly following the norms UGC guide lines for autonomous colleges-2018-19.

S.NO	NAME	DESIGNATION
1.	K.BABU LECTURER IN CHARGE/HOD, DEPARTMENT OF ZOOLOGY GOVERNMENTCOLLEGE(AUTONOMOUS) RAJAMAHENDRAVARAM	CHAIRMAN
2.	ALL FACULTY MEMBERS IN THE DEPARTMENT	MEMBER
3.	Dr.N.SRINIVAS HEAD OF THE DEPARTMENT OF ZOOLOGY P.R.GOV.T.COLLEGE(A), KAKINADA	SUBJECT EXPERT
4	Dr.M.NAGAPRASANNA LECTURE IN ZOOLOGY GDC(W), GUNTUR	SUBJECT EXPERT
5.	Dr.P.VIJAYANIRMALA ADI KAVINANNAYA UNIVERSITY RAJAMAHENDRAVARAM	UNIVERSITY NOMINEE
6.	Dr.K.SARALA PRINCIPAL SCIENTIST, CROP IMPROVEMENTS DIVISION CTRI, RAJAMAHENDRAVARAM	EXPERT FOR INDUSTRY- CORPORATE SECTOR
7.	TEJA SREEE M.Sc ZOOLOGY, RAJAMAHENDRAVARAM	STUDENT NOMINEE

The above members are requested to attend the BOS meeting and share their valuable views, suggestions on the following functionaries:

- A) Prepare syllabi for M.Sc.AQUACULTURE course the subject keeping in view the objectives of the college and interests of the stake holders and national requirement for consideration and approval of the academic council
- B) Suggest methodologies for innovative teaching and evaluation techniques
- C) Suggest panel of names to the academic council for the appointment of examiners.
- D) Coordinate research,teaching,extension and other activities in the department of the college.

The term of the members will be three years from the date of nomination. The chairman of the BOS(HOD/lecturer incharge of the department) is directed to coordinate with the principal of the college and conduct BOS meeting as and when necessary, but at least twice a year.

PRINCIPAL

GOVERNMENTCOLLEGE(A)

RAJAMAHENDRAVARAM

COPYTO:

- 1. The above individuals
- 2. File

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- 6.)
- 7.)

PROCEEDINGS OF THE VICE CHANCELLOR

PROCEEDINGS OF THE VICE-CHANCELLOR

Sub: ANUR – AA – PG Courses – PG Joint Board – Resolutions – Orders – Reg.

Ref: 1. Minutes of Meeting of PG Joint Board to adopt the guidelines and model curriculum frame work issued by APSCHE held on 25.07.2024 & 07.08.2024.

Research Degree shall be one year with 2 semesters, each Semester with 90 working days.

6. A student who has completed 4 years UG Honours Degree is eligible for lateral entry into the 2nd year/3rd semester of the 2-year PG program with either research in 3rd and 4th semesters or with coursework only in 3rd semester and project work in 4th semester.
7. An undergraduate with 4-year UG Honours with Research is eligible for lateral entry only into the 2nd year/3rd semester of the 2-year PG program with Coursework in 3rd semester and Project Work in 4th Semester.
8. The total number of seats sanctioned for a post graduate program shall remain the same, without any increase in the sanctioned strength. However, for the admission of students with 4-year UG Honours and 4-year UG Honours with research, 20% of supernumerary seats shall be sanctioned in semesters 1 and/or 3 for UG Honours and UG Honours with research. Such supernumerary seats created shall be used only for the purpose sanctioned without any deviation. No supernumerary seats shall be created if no suitable candidates are available.
9. While awarding the postgraduate degree for a one-year PG with lateral entry, the provisional certificate and the degree conferred shall clearly mention that the student is awarded a one-year post graduate program after completing a four-year UG Honours program and also the number of credits secured by the students in the 4-year UG program shall be mentioned.
10. While awarding the post graduate degree for a one-year PG re-joined students with one-year PG Diploma after 3 years of UG, the provisional certificate and the degree conferred shall clearly mention that the student is awarded a one-year post graduate program after completing a one-year PG Diploma and also the number of credits secured by the students in the one-year PG Diploma shall be mentioned.
11. The following method of assessment shall be followed for all PG programs in sciences, arts, humanities being offered by the University. The maximum marks for all theory courses shall be 100, and the maximum marks for all practical courses shall be 50. The distribution of marks between Summative (which occur at the end of a course or semester) and Formative or internal assessments shall be 60%: 40%.
12. There will not be any pass minimum for formative/internal assessment either in a theory course or in a practical course; however, the student has to appear for at least one mid semester examination.
13. The pass minimum for the summative assessment shall be 40% (i.e., 24 out of 60 and 40 out of 100) in theory courses and 50% (15 marks out of 30 and 25 marks out of 50) in practical courses and project works.
14. (a) The following model be adopted for Formative/Internal Assessment in theory courses:
 - (i) Mid Semester Examinations – 25 Marks.

$$\begin{aligned}
 & \sum_1^n (\text{Grade Point} * \text{Credits}) \\
 = & \frac{\sum_1^n (\text{Grade Point} * \text{Credits})}{\sum_1^N \text{Credits}}
 \end{aligned}$$

Where 'n' is the total number of subjects

20. Calculator of CGPA (Cumulative Grade Point Average)

$$\text{CGPA} = \frac{\text{Sum of products of grade points and credits of all concerned subjects of all semesters}}{\text{Sum of credits of all the subjects in all the semesters}}$$

$$\begin{aligned}
 & \frac{\sum_{s=1}^s \sum_{n=1}^n (\text{Grade points} \times \text{Credits})}{\sum_{s=1}^s \sum_{n=1}^n \text{Credits}}
 \end{aligned}$$

where *s* is the number of semesters and *n* is the number of subjects.

21. A candidate has to secure a minimum of 4.0 SGPA for a pass in each semester in case of PG in Art, Commerce and Sciences.

22. Guide lines for framing of syllabus for each course/paper

- Each paper should consists of four units with uniformly distributed topics
- Model Question Paper for theory courses should be as follows

Section-A (48 marks): 4 questions of 12 marks each in the following pattern

Question 1: Two questions are to be framed from the **unit I** for 12 marks each.
Out of these two, candidate will attempt one question.

Question 2: Two questions are to be framed from the **unit II** for 12 marks each.
Out of these two, candidate will attempt one question.

Question 3: Two questions are to be framed from the **unit III** for 12 marks each.
Out of these two, candidate will attempt one question.

Question 4: Two questions are to be framed from the **unit IV** for 12 marks each.
Out of these two, candidate will attempt one question.

Section-B (12 marks): Six short answer questions of 4 marks each are to be given with atleast one question from each of the 4 units. The candidate will attempt any three of these six.

23. All the BOS chairpersons are instructed to follow the above guidelines scrupulously in framing the syllabus for their academic programs.

24. The other nomenclature and definitions mentioned in the APSCHE guidelines document shall remain the same and be implemented by the University.

APPENDIX

1.A. Redesigned curricular frame work of 2-year post graduate program with course work and research in 2nd year (3 and 4 semesters)

2-Year Master of Science (M.Sc.) with Course work & Research in 2 nd year (3 rd and 4 th Semesters)								
Semester	Courses	Level of Course	Theory			Practical		
			H	Cr	MM	H	Cr	MM
Sem1	Core Course1	500 -599	3	3	100	2	1	50
	Core Course2	500 -599	3	3	100	2	1	50
	Core Course3	500 -599	3	3	100	2	1	50
	Skill Enhancement Course1	400 -499	3	3	100	2	1	50
	Skill Enhancement Course2	400 -499	3	3	100	2	1	50
	Open Online Trans disciplinary Course1	300 -399		2	50			
	Indian Knowledge Systems1	200 -299	2	0	50	Audit course		
<i>End of Sem1</i>			17	17	600	10	5	
Sem2	Core Course4	500 -599	3	3	100	2	1	50
	Core Course5	500 -599	3	3	100	2	1	50
	Core Course6	500 -599	3	3	100	2	1	50
	Skill Enhancement Course3	400 -499	3	3	100	2	1	50
	Skill Enhancement Course4	400 -499	3	3	100	2	1	50
	Open Online Trans disciplinary Course2	300 -399		2	50			
	Indian Knowledge Systems2	200 -299	2	0	50	Audit course		
<i>End of Sem2</i>			17	17	600	10	5	
Sem3	Research Methodology1	400 -499	4	4	100			
	Research Methodology2	400 -499	4	4	100			
	Research Methodology3	400 -499	4	4	100			
	Research Methodology4 (Discipline Specific)	400 -499	4	4	100			
	Research Methodology5 (Discipline Specific)	400 -499	4	4	100			
<i>End of Sem3</i>			20	20	500	0	0	
Sem4	Research Project	400 -499					20	200
	<i>End of Sem4</i>		0	0		0	20	
Total Hours/Credits			54	54		20	30	

MM: Max Marks in the end semester examination

7. B. Redesigned curricular framework of 2-year postgraduate program with coursework in first 3 semesters and project work in 4th semester of 2 year.

2-Year Master of Science (M.Sc.) with course work in first 3 semesters and project work in 4 th semester of II year								
Semester	Courses	Level of Course	Theory			Practical		
			Hr	Cr	MM	Hr	Cr	MM
Sem1	Core Course1	500 -599	3	3	100	2	1	50
	Core Course2	500 -599	3	3	100	2	1	50
	Core Course3	500 -599	3	3	100	2	1	50
	Skill Oriented Course1	400 -499	3	3	100	2	1	50
	Skill Oriented Course2	400 -499	3	3	100	2	1	50
	Open Online Trans disciplinary Course1	300 -399		2	50			
	Indian Knowledge Systems1	200 -299	2	0		Audit course		
	<i>End of Sem1</i>		17	17		10	5	
Sem2	Core Course4	500 -599	3	3	100	2	1	50
	Core Course5	500 -599	3	3	100	2	1	50
	Core Course6	500 -599	3	3	100	2	1	50
	Skill Oriented Course3	500 -599	3	3	100	2	1	50
	Skill Oriented Course4	500 -599	3	3	100	2	1	50
	Open Online Trans disciplinary Course2	300 -399		2	50			
	Indian Knowledge Systems2	200 -299	2	0		Audit Course		
	<i>End of Sem2</i>		17	17		10	5	
Sem3	Core Course7	500 -599	3	3	100	2	1	50
	Core Course8	500 -599	3	3	100	2	1	50
	Core Course9	500 -599	3	3	100	2	1	50
	Skill Oriented Course5	500 -599	3	3	100	2	1	50
	Skill Oriented Course6	500 -599	3	3	100	2	1	50
	<i>End of Sem3</i>		15	15		10	5	
Sem4	Open Online Skill Development Course/s	300 -399	-	8		-	-	
	Project Work	400 -499					12	200
	<i>End of Sem4</i>		-	8		-	12	
Total Hours/Credits			49	57		30	27	

GOVERNMENT COLLEGE(A) RAJAMAHENDRAVARAM

DEPARTMENT OF ZOOLOGY

P.G BOARD OF STUDIES MEETING MINUTES

The board of studies meeting in zoology (P.G) I, II, III, IV Semester for the year 2024-26 was held in the department of Zoology on at With **K.BABU** Lecture in charge in the chair along with following members

1. University nominee : **Dr .P.VIJAYA NIRMALA**
Adikavi Nannaya University Rajamahendravaram
2. Subject expert : **Dr.N.Srinivas**
Head of the department of zoology
P.R.Govt. College (A) Kakinada
3. Subject expert : **Dr.M.NAGAPRASANNA**
Lecturer in zoology GDC
(W), Guntur
4. Principal scientist : **Dr.k.Sarala**
Scientist CTR I Rajamahendravaram
5. Student nominee : **Teja sree**
M.Sc Zoology

Signature :

- 1.
- 2.
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GOVERNMENT COLLEGE(A) RAJAMAHENDRAVARAM DEPARTMENT OF ZOOLOGY
P.G BOARD OF STUDIES MEETING

CONSOLIDATED REPORT FOR THE YEAR 2024-26

The board of studies meeting of the department of AQUACULTURE was conducted under the chairmanship of **K.BABU** with the following members.

S.NO	NAME	DESIGNATION	Signature
1.	Dr.N.SRINIVAS HEAD OF THE DEPARTMENT OF ZOOLOGY P.R.GOV.T.COLLEGE(A), KAKINADA	SUBJECT EXPERT	
2.	Dr.M.NAGA PRASANNA LECTURER IN ZOOLOGY GDC(W) GUNTUR	SUBJECT EXPERT	
3.	Dr.P.VIJAYANIRMALA ADI KAVINANNAYA UNIVERSITY RAJAMAHENDRAVARAM	UNIVERSITY NOMINEE	
4.	Dr.K.SARALA PRINCIPAL SCIENTIST, CROP IMPROVEMENTS DIVISION CTRI, RAJAMAHENDRAVARAM	EXPERT FOR INDUSTRY- CORPORATE SECTOR	
5.	Bhagyasurekha M.SC ZOOLOGY, RAJAMAHENDRAVARAM	STUDENT NOMINEE	

The following documents are submitted to the Academic coordinator and controller of Examinations.

1. Resolution of PG Board of studies meeting
2. Syllabus of I & II semesters
3. Model question papers of semester theory only.
4. List of paper setters/Examiners.

CHAIRMAN

PG board of studies

Department of zoology

NAAC Re-accredited-A+Grade

Department of zoology approved list of examiners/Papers setters

S.no	Name of the Faculty	University/College
1	Dr.A.MATTAREDDY	AKNU,RJVMASSOCIATE PROFESSOR
2	Dr.P.VIJAYANIRMALA	AKNU,RJVMASSOCIATE PROFESSOR
3	Dr.K.RAMANESWARI	AKNU,RJVMASSOCIATE PROFESSOR
4	Dr.D.KALYANI	AKNU,RJVMASSOCIATE PROFESSOR
5	Dr.N.ANNAKAMMA	GDC(W)GUNTURASSISTANT PROFESSOR
6	Dr.M.HANUMANTHALRAJ	GDC(W)GUNTURASSISTANT PROFESSOR
7	Dr.NAGAPRASANNA	GDC(W)GUNTURASSISTANT PROFESSOR
8	G.CATHERIN	GDC(W)GUNTURASSISTANT PROFESSOR
9	P.ANITHASUSAN	GDC(W)GUNTUREREADER
10	Dr.K.SRINIVAS	GDC(W)GUNTURASSISTANT PROFESSOR
11	Dr.N.SRINIVAS	PRGDC(A)KKD
12	Dr.ELIABANDARI	PRGDC(A)KKD
13	P.LAKSHMICHAYA	KGRL BHIMAVARAM
14	Dr.P.PADMAVATHI	NAGARJUNNAUNIVERSITY
15	SIMHACHALAM	NAGARJUNNAUNIVERSITY

GOVERNMENT COLLEGE(A) RAJAMAHENDRAVARAM

DEPARTMENT OF ZOOLOGY 2022-23

S.NO	NAME OF THE FACULTY	SIGNATURE
1	D.SAILAJA	
2	K.BABU	
3	K.SUBHASHINIDEVI	
4	M.VIJAYASANTHI	
5	K.SONIYA	
6	T.S.S.RAGHUVeer	
7	K.KEERTHI	
8	CH.JYOTHIKUMARI	
9	CH.DURGABHAVANI HEMA	

GOVERNMENT COLLEGE(A) RAJAHMUNDRY
M.Sc., AQUACULTURE
2024-2026

EXAMINATION PATTERN:

THEORY: 60 % IS SEMESTER END EXAMINATION
40 % IS CONTINUOUS INTERNAL ASSESSMENT

PRACTICAL: 70 % IS SEMESTER END EXAMINATION
30 % IS CONTINUOUS INTERNAL ASSESSMENT

GOVERNMENT COLLEGE (A) RAJAMAHENDRAVARAM

M.Sc.

**AQUACULTURE SEMESTER
END EXAMINATION-2024-26**

MODEL QUESTION PAPER

TIME: 3HRS
60M

MAX.MARKS -

Answer all the questions, each question carries 12

marks SECTION-A

4X10=40M

Q1. **UNIT-I**

1 or 2

Q2. **UNIT-II**

3 or 4

Q3. **UNIT-III**

5 or 6

Q4. **UNIT-IV**

7 or 8

SECTION-B

5x4=20M

Two Short answer type questions from each Unit

CURRI ULUM FRAME WORK FOR M.Sc AQUACULTURE 2024-2026 ADMITTED BATCH

Semester	Courses	Theory			Practical		
		Hr	Cr	MM	Hr	Cr	MM
Sem-I	Core-1 Principle of Aquaculture	3	3	100	2	1	50
	Core-2 Aquatic Ecology	3	3	100	2	1	50
	Core-3 Water Quality Management	3	3	100	2	1	50
	SEC-1(a) Fish Pathology (b) Coastal Aquaculture	3	3	100	2	1	50
	SEC-2 Fish Immunology and Microbiology (b) Physical and Chemical Oceanography	3	3	100	2	1	50
	OOTDC-1 Impact of physico-Chemical factors on Aqualife		2	50			
	Indian Knowledge System-I	2	-				Audit Course
End of Sem-I		17	17	550	10	5	250
Sem-II	Core-4 Limnology	3	3	100	2	1	50
	Core-5 Ichthyology	3	3	100	2	1	50
	Core-6 Nutrition and Feed Technology	3	3	100	2	1	50
	SEC-3(a) Fish Processing Technology (b) Biological Oceanography	3	3	100	2	1	50
	SEC-4 (a) Ornamental Fishes and Aquarium Management (b) Marine Pollution and Bio Deterioration	3	3	100	2	1	50
	OOTDC-2 Environmental effects of Coastal Aquaculture		2	50			
	Indian Knowledge System-II	2	-				Audit Course
End of Sem-II		17	17	550	10	5	250
Sem-III	Core-7 Sustainable Aquaculture	3	3	100	2	1	50
	Core-8 Aquaculture Biotechnology	3	3	100	2	1	50
	Core-9 Genetic Engineering and its applications in Fisheries	3	3	100	2	1	50
	SEC-5 (A) Fisheries Marketing Management (B) Estuaries and Coastal zone	3	3	100	2	1	50

	Management						
	SEC-6 (A)Fishing Methods and Marine Fishries resource	3	3	100	2	1	50
	Management (B) Fishery Economics and Extension						
	End of Sem-III	15	15	500	10	5	250
	Open online skill development courses		8				
Sem-IV	PROJECT WORK					12	200
	End of Sem-IV		8			12	
	Total Hours/Credits	49	57		30	27	

NOTE

- E) **SEC** - **Skill Oriented course**
- F) **OATDC** - **Open Online Trans Disciplinary Course**
- G) **Hr** - **Hours**
- H) **Cr** - **Credits**
- I) **MM** - **Maximum Marks**