

**GOVERNMENT COLLEGE (AUTONOMOUS), RAJAHMUNDRY**  
Accredited by NAAC (RAF-2017) with 'A+' Grade (CGPA: 3.38/4.00)  
Affiliated to Adikavi Nannaya University, Rajamahendravaram

**DEPARTMENT OF CHEMISTRY**

**COMPOSITION OF THE BOARD OF STUDIES COMMITTEE 2023-24**

S.No.	Category	Designation	Names of the Members of Board of Studies	Remarks
1	Educational	Chairperson	Sri T. SRINIVASA RAO Lecturer in-charge, Department of Chemistry, Government College (A), Rajahmundry.	
2	University Nominee	Member	Dr. K. DEEPTHI, Asst. Professor, Department of Chemistry, Adikavi Nannaya University, Rajamahendravaram.	Nominated by University
3	Industrial Nominee	Member	Dr. N. RAMANA, Senior Chemist, ONGC, Rajamahendravaram.	Nominated by the Principal
4	Subject Expert	Member	Dr. M. SUNITHA, Lecturer in Chemistry, SKR College, Rajahmundry.	Subject Expert
5	Subject Expert	Member	Sri Lt. M.V. PREM SAGAR, Lecturer in Chemistry, DRG Govt. College, Tadepalligudem.	Subject Expert
6	Faculty	Members	All Faculty Members, Department of Chemistry, Government College (A), Rajahmundry.	Faculty Members
7	Student	Student Nominee	Ms. T. KANCHANA, II B.Sc. FMZC	Student

**AGENDA:**

1. Syllabus design as per the UGC guidelines and APSCHE framework for I, II, III, IV, V and VI Semesters (Both Theory and Practical).
2. Design of Programme Outcomes for f New Programmes, Course Objectives and Course Outcomes of New Courses.
3. Framing of Single Major System Course structures and designing of syllabi for all Chemistry Courses for 2023-24 admitted batch.
4. CBCS syllabus design for 2021-22 and 2022-23 admitted batches.
5. Syllabus design for Multi-disciplinary Course in Single Major System.
6. Syllabus design for Certificate Courses.
7. Inclusion of Additional Inputs in the Curriculum.
8. Innovative Teaching-Learning Methodologies.
9. Internal and External assessment pattern.
10. Question paper pattern.
11. CSP/Internship/On-the-job training.
12. Department's action plan of academic activities.
13. List of Examiners and Paper setters.
14. Any other.

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### **DEPARTMENT OF CHEMISTRY**

#### **Minutes of the Board of Studies Meeting - August, 2023.**

**DATE: 30-08-2023**

**TIME: 10.00 AM**

The Board of studies meeting of the Chemistry Department convened at 10.00 AM on 30-08-2023 in room no.100 under the Chairmanship of Sri T. Srinivasa Rao, Lecturer in-charge of the department. The members present discussed various aspects such as design of curricula, changes in the syllabi, model question papers, scheme of valuations, etc., for the academic year 2023-2024 and made the following resolutions:

#### **Resolutions:**

Agenda 1:

Syllabi design as per the UGC guidelines and APSICHE framework for I, II, III, IV, V and VI semesters (Both Theory and Practical).

Discussion:

All the members have discussed that the syllabi should be designed under APSICHE framework for I, II, III, IV, V and VI semesters.

Resolution:

All the members of the BoS have accepted unanimously to agenda.

Agenda 2:

Design of Programme Outcomes for New Programmes, Course Objectives & Course Outcomes for New Courses.

Discussion:

In-charge of the Chemistry Department, Sri T. Srinivasa Rao proposed that POs and COs should be designed according to the Institute's policy and NEP-2020. A vast discussion was made on this and designed.

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Resolution:

All the members of the BoS have resolved to approve the designed Programme Outcomes for New Programmes for the following New Programmes and Course Objectives & Course Outcomes of All Courses for the Academic Year 2023-24.

- i) I B.Sc. Chemistry (Hons. and Research)
- ii) I B.Sc. Organic Chemistry (Hons. and Research)
- iii) I B.Sc. Analytical Chemistry (Hons. and Research)
- iv) I B.Sc. Industrial Chemistry (Hons.)

Agenda 3:

Framing of Single Major System Course structures and designing of syllabi for all Chemistry Courses for 2023-24 admitted batch.

Discussion:

In-charge of the Chemistry Department, Sri T. Srinivasa Rao proposed that syllabi should be designed in lines of the COs designed and Institute's aim and objectives. All the members have accepted and made the following resolution.

Resolution:

It is resolved to

- a) Implement Multiple Entry & Multiple Exit system in Single Major System from 2023-24 admitted batch onwards as given hereunder:
    - i) After completion of first year, student may exit with Certificate.
    - ii) After completion of second year, student may exit with Diploma.
    - iii) After completion of third year, student may exit with Degree.
    - iv) After completion of fourth year, student will get Hons. Degree (and Research).
  - b) Implement the designed syllabi, blue prints and model question papers for 2 chemistry Major courses and 2 practical courses for II semester of the Single Major System programmes for the 2023-24 admitted batch:
  - c) Offer one of the 2 chemistry major courses (second course) as the minor course for other major programmes in II semester.
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Agenda 4:

CBCS syllabus design for 2021-22 and 2022-23 admitted batches.

Discussion:

All the members have discussed that the syllabi should be according to CBCS for 2021-22 and 2022-23 admitted batches.

Resolution:

All the members of the BoS have resolved to approve and implement the designed syllabi, blue prints and model question papers for theory and practical courses of B.Sc., B.Sc. (MCAC) and B.Sc. Chemistry (Honors) Programmes of III, IV and V/VI semesters as per Choice Based Credit System for the Academic Year 2023-24.

Agenda 5:

Syllabus design for Multi-disciplinary Course in Single Major System.

Discussion:

In-charge of the Chemistry Department, Sri T. Srinivasa Rao proposed to design one Multi-disciplinary Course for all I year I semester Non-Science students of the institute from 2023-24 admitted batch onwards to train the students in multi-dimensional way. University Nominee, Dr. K. Deepthi proposed to introduce "Principles of Chemical Sciences" as Multi-disciplinary Course and all the members have accepted and designed the syllabus for "Principles of Chemical Sciences".

Resolution:

All the members of the BoS have resolved to approve and implement the designed syllabus and model question paper for the Multi-disciplinary Course.

Agenda 6:

Syllabus design for Certificate Courses.

Discussion:

According to the Institute's policy, each and every II degree student has to complete one Certificate Course in IV semester. In this connection, in-charge of the Chemistry Department, Sri T. Srinivasa Rao proposed to offer two Certificate Courses from Chemistry department to offer for all degree students. Subject Expert, Dr. M. Sunitha suggested to continue the Certificate Courses offered in previous year and all the members have accepted this.

Resolution:

All the members of the BoS have resolved to approve and implement the designed syllabi and model question papers for 2 certificate courses, "Basic Analytical Techniques" and "Essentials of Pharmacology" for the Academic Year 2023-24.

Agenda 7:

Inclusion of Additional Inputs in the Curriculum.

Discussion:

In-charge of the Chemistry Department, Sri T. Srinivasa Rao proposed to include Value addition/ additional inputs in all the Chemistry Courses by utilizing the Institute's academic autonomy for the benefit of the students to face PG entrance examinations of various universities and other competitive examinations.

Resolution:

All the members of the BoS have unanimously accepted and resolved to include additional inputs in all Chemistry courses.

Agenda 8:

Innovative Teaching-Learning Methodologies.

Discussion:

In-charge of the Chemistry Department, Sri T. Srinivasa Rao proposed to teach the Chemistry courses in Blended mode for the benefit of the students in understanding the topics easily. Subject Expert, Sri N.V. Prem Sagar corroborated the issue.

Resolution:

All the members of the BoS have unanimously accepted it and resolved to teach all the Chemistry Courses in blended mode.

Agenda 9:

Internal and External assessment pattern.

Discussion:

In-charge of the Chemistry Department, Sri T. Srinivasa Rao proposed to follow the Institute's SoP and Pattern for Internal and External Assessment.

Resolution:

All the members of the BoS have unanimously accepted the following assessment pattern.

a) Conduct Continuous Internal Assessment for 50 marks and Semester End Examination for

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50 marks for all courses as per the SoP of the academic cell of the Institute.

EVALUATION: Internal evaluation for each course will be done as follows:

S.No.	Component		Marks
1	CIE I (after completion of 50% of syllabus)		20
2	CIE II (Online Exam)		10
3	Attendance	Above 95%	5
		91% to 95%	4
		86% to 90%	3
		81% to 85%	2
		75% to 80%	1
		Below 75%	0
<b>Pedagogical Strategies</b>			
4	Assignment		5
5	Participation or Paper Presentation in Student Seminars/Workshops/Group Discussions/Quiz/Student Study Project/Field Visit/Survey		5
6	Viva-voce		5
<b>TOTAL</b>			<b>50</b>

The minimum pass mark for both internal and external examinations is 18 marks (36%), but as a whole student is subjected to get 40% marks (40 out of total 100 marks) to pass the subject.

Agenda 10:

Question paper pattern.

Discussion:

A discussion was made to frame question paper pattern to assess the students' performance in a transparent way.

Resolution:

All the members of the BoS have resolved to follow two types of question papers for B.Sc. students.

a) The question paper pattern for the 2023-24 and 2022-23 admitted batches (semesters I, II, III and IV) is as follows:

i) In section 'A', the candidate has to answer five essay questions from a total of ten questions with internal choice. Marks:  $5 \times 7 = 35$

ii) In section 'B', the candidate has to answer five short answer type questions out of Eight questions. Marks:  $5 \times 3 = 15$

Total Marks:  $35 + 15 = 50$  Marks.

b) The question paper pattern for the 2021-22 admitted batch is as follows:

i) In section 'A', the candidate has to answer four essay questions from a total of eight questions with internal choice. Marks:  $4 \times 7 = 28$

ii) In section 'B', the candidate has to answer four short answer type questions out of Eight questions. Marks:  $4 \times 4 = 16$

iii) In section 'C', the candidate has to answer three very short answer questions from a total of three questions without choice. Marks:  $3 \times 2 = 6$

Total Marks:  $28 + 16 + 06 = 50$  Marks.

Agenda 11:

Community Service Project/ Internship/ On-the-job training.

Discussion:

A discussion was made about the implementation of Community Service Project/Internship/On-job-training and the benefits of them.

Resolution:

All the members of the BoS have approved to follow the APSCHE guidelines for conducting the Community Service Project/Internship/On-job-training/Apprenticeship in the given stipulated period.

a) In Single Major System,

For I B.Sc., there will be 2 Major Courses in the subject in II semester. At the end of semester II, there will be 180 hours Community Service Project for 4 credits.

b) In CBCS system, the core subject CHEMISTRY comprises FIVE courses in III, IV and V/VI semesters

i) For II B.Sc., there will be CORE-III in semester-III and Core-IV and Core-V in semester-IV. At the end of semester IV, there will be 8 weeks short-term internship programme for 4 credits.

ii) For III B.Sc., there will be CORE-VI and Core-VII in semester V. Either in the V/VI semester, every student should go for 6 months Internship/On job training/Apprenticeship for 12 credits.



Agenda 12:

Department's action plan of academic activities.

Discussion:

A discussion was made about the activities to be conducted by the department.

Resolution:

All the members of the BoS have approved to observe some important days and organize at least one National/International Seminar/Conference in the academic year as given below:

### LIST OF ACTIVITIES PROPOSED FOR THE ACADEMIC YEAR, 2023-24

S.No.	Month	WEEK/DATE	Name of the activity	Remarks
1	June	5th	World Environment Day	
		21st	International Yoga Day	
		28th	International Day Against Drug Abuse and Illicit Trafficking	
2	July	12th	E. J. Corey Birthday - Guest Lecture	
3	August	2nd	P.C. Ray Birthday - Elocution	
		15th	Independence Day	
		3 <sup>rd</sup> & 4 <sup>th</sup> week	Deeksharambh	
		4 <sup>th</sup> week	Bridge course for 1st year students	
4	September	15 <sup>th</sup> & 16 <sup>th</sup>	International Seminar	
		16th	World Ozone Day	
5	October	2nd	Gandhi Jayanthi – Peace Rally	
		23rd	Mole day	
		4th week	Lab to land	
6	November	3rd week	Industrial visit	
		3rd week	Guest lecture	
		3rd week	Lab to school	
7	December	4th	Chemical Disaster Prevention Day	
		3rd week	Joy of Giving Awareness Programme	
8	January	26th	Republic Day	
		4th week	Plastic Free Awareness Programme	
9	February	3rd week	Guest lecture	
		28th	National Science Day	
10	April	4th week	RAC chemicals preparation	

Agenda 13:

List of Examiners and Paper setters.

Discussion:

A discussion was made to finalize the list of Examiners and Paper setters.

Resolution:

All the members of the BoS have approved the revised list of Examiners and Paper setters.

### LIST OF EXAMINERS AND PAPER SETTERS

S. No.	Name of the Lecturer/Reader	College Address	Papers Taught
01	Sri A. Sai Sundar	GDC, Kovvur	All
02	Sri U. Venkatacharyulu	GDC, Jangareddigudem	All
03	Dr. K. Anitha	ASD GDC(W), Kakinada	All
04	Sri T.V.V. Satyanarayana	PRGC(A), Kakinada	All
05	Dr. V. Mallikhajuna Sharma	GDC, Jaggampeta	All
06	Dr. D. Chenna Rao	GDC, Yeleswaram	All
07	Dr. B. Madhav	GDC, Seethanagaram	All
08	Dr. V. Narayana Rao	GDC, Perumallapuram	All
09	Sri B. Surendra	GDC, Tadepalligudem	All
10	Dr. Udaya Lakshmi	GDC, Eluru	All
11	Sri Sadhik Ahmed	GDC, Kovvur	All
12	Sri V. Rambabu	PRGC(A), Kakinada	All

Agenda 14:

Any other Discussion:

A discussion was made about the practical procedures to reduce the cost and consumption of chemicals.

Resolution:

All the members of the BoS have approved to adopt and implement micro scale experimentation for qualitative analysis and two burette method for volumetric analysis for all practicals wherever is possible in all semesters.