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

DEPARTMENT OF CHEMISTRY

Minutes of the Board of Studies Meeting - August, 2024.

DATE: 27-08-2024 **TIME: 02.00 PM**

The Board of studies meeting of the Chemistry Department, convened on 27-08-2024 at 02.00 PM 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 curriculum, changes made in the syllabi, model question papers, practicals, scheme of valuation etc., for the academic year 2024-2025 and made the following resolutions.

In-charge of the Chemistry Department, Sri T. Srinivasa Rao presided over the meeting by welcoming all the BoS members to the meeting.

At first, he explained about NEP-2020 and told that the department of Chemistry has adopted Single Major System from 2023-24 academic year onwards and the following four programmes are offered by the department.

1. B.Sc. Chemistry (Hons. and Research)
2. B.Sc. Organic Chemistry (Hons. and Research)
3. B.Sc. Analytical Chemistry (Hons. and Research)
4. B.Sc. Industrial Chemistry (Hons.)

He further told that due to lesser number of admissions, B.Sc. Industrial Chemistry (Hons.) is closed from the academic year, 2024-25 and a new Programme (B.Sc. Petrochemicals) is started as the importance of Petrochemicals is increasing day by day. Hence, Department of Chemistry is offering the following programmes from the academic year, 2024-25:

1. B.Sc. Chemistry (Hons. and Research)
2. B.Sc. Organic Chemistry (Hons. and Research)
3. B.Sc. Analytical Chemistry (Hons. and Research)
4. B.Sc. Petrochemicals (Hons.)

He further told that Multiple Entry & Multiple Exit system is adopted from 2023-24

admitted batch onwards as given hereunder:

i) After completion of first year, student may exit and he/she gets 'Certificate'.
ii) After completion of second year, student may exit and he/she gets 'Diploma'.
iii) After completion of third year, student may exit and he/she gets 'Degree'.
iv) After completion of fourth year, student will get Hons. Degree or Hons & Research Degree according to the offered programme.

Later on, he started discussion for agenda points.

Agenda 1a:

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

Discussion:

In-charge of the Chemistry Department, Sri T. Srinivasa Rao proposed that syllabi should be designed as per the UGC guidelines and APSCHE framework for I, II, III, IV, V and VI semesters (Both Theory and Practical) for all chemistry programmes/courses in line of the PLOs & CLOs designed and Institute's aim and objectives. All the members have accepted and designed syllabi for all the chemistry courses and made the following resolution.

Resolution:

It is resolved to

a) Implement the designed syllabi for 2 common Major courses for I semester of the Single Major System programmes for the 2024-25 admitted batch.

b) Implement the designed syllabi for 2 chemistry Major courses and 2 practical courses for II semester of the Single Major System programmes for the 2024-25 admitted batch.

c) Offer the following courses as minor courses for other science major programmes in II semester, III semester and IV semester in the respective semesters as given below:

S.No.	Semester	Title of the Minor Course offered for other Major programmes
1	II	General and Inorganic Chemistry
2	III	Fundamentals of Organic Chemistry
3	IV	Physical Chemistry-II
4	IV	General and Physical Chemistry

Agenda 1b:

To design syllabi for a Multi-disciplinary Course by the department of Chemistry.

Discussion:

In-charge of the Chemistry Department, Sri T. Srinivasa Rao told that one multi-disciplinary course should be designed from department of Chemistry for arts and commerce streams according to the institute's policy to make the Arts & Commerce students as chemistry literates.

Dr. D. Suneetha, one of the Subject Experts proposed to offer a course titled, "Principles of Chemical Sciences" as Multi-disciplinary course.

All the members have accepted and designed syllabi for the course and made the following resolution.

Resolution:

It is resolved to implement the designed syllabi, blue print and model question paper for the course.

Agenda 1c:

To design syllabi for all chemistry courses for III degree courses for 3 major programmes for 2022-23 admitted batch.

Discussion:

In-charge of the Chemistry Department, Sri T. Srinivasa Rao told that 3 major programmes (2022-23 admitted batch) will be closed by 2024-25 and syllabi should be designed in CBCS pattern for the courses for final year programmes. All the members have accepted and designed syllabi for all the chemistry courses and made the following resolution.

Resolution:

It is resolved to implement the designed syllabi, blue prints and model question papers for the offered theory and practicals of B.Sc. (Chemistry), B.Sc. (MCAC), and B.Sc. Chemistry (Honors) Programmes of V/VI semesters as per Choice Based Credit System for the Academic Year 2024-25 in CBCS mode.

Agenda 1d:

To include additional inputs in the curriculum of chemistry courses.

Discussion:

In-charge of the Chemistry Department, Sri T. Srinivasa Rao told that inclusion of additional inputs like current trends in chemistry, applications of chemistry in daily life, etc. in curriculum helps the students in attempting various competitive examinations at global level. All the members have accepted and included some topics for most of the chemistry

courses and made the following resolution.

Resolution:

It is resolved to teach the topics which were included in curriculum.

Agenda 2:

To discuss and approve evaluation process, question paper pattern and blue print for semester end examinations.

Discussion:

In-charge of the Chemistry Department, Sri T. Srinivasa Rao explained to all the members of BoS about the SOP of the Academic Cell of the institute for evaluation process for CBCS mode as well as for Single Major system as given below:

Continuous Internal Assessment is done for 50 marks and Semester End Examination is conducted for 50 marks for each course as follows:

i) The Continuous Internal assessment for a total of 50 marks is distributed as follows:

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

ii) Semester-End Examinations question paper pattern is as follows for all programmes:

In section ‘A’, the candidate has to answer five essay questions from a total of ten questions with internal choice. Marks: 5 x 7 = 35

In section ‘B’, the candidate has to answer five short answer type questions out of Eight Questions. Marks: 5 x 3= 15

Total Marks: 35 +15 = 50 Marks

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.

For practicals, there will be Internal Examination at the end of I, III and V/VI semesters for 50 marks and External Examination at the end of II and IV semesters for 50 marks respectively.

All the members have accepted the institute's pattern, set the blue prints for all courses and made the following resolution.

Resolution:

It is resolved to follow the institute's unique pattern for all the chemistry programmes/courses in the evaluation process and follow the blue prints.

Agenda 3:

To design syllabi, teaching hours, credits, question paper pattern and Blue print for Certificate Courses offered by Chemistry department.

Discussion:

In-charge of the Chemistry Department, Sri T. Srinivasa Rao explained to all the members of BoS that every student has to complete one Certificate Course to get degree certificate from the institute and this will help the students in getting more knowledge in interested subject and to get two extra credits along with their regular course credits. He also stated that every department has to offer these courses and any student can choose any one course on his/her own interest in IV semester.

All the members of BoS felt happy to know this and decided to offer two Certificate Courses namely, 'Essentials of Pharmacology' and 'Basic Analytical Techniques' from the Chemistry department and designed syllabi for 30 hours with 2 credits.

Resolution:

It is resolved to implement the Certificate Courses - 'Essentials of Pharmacology' and 'Basic Analytical Techniques' for the academic year 2024-25 and conduct the examination for 50 marks at the end of IV semester.

Agenda 4:

To recommend Innovative teaching learning and evaluation tools.

Discussion:

Now-a-days technology is changing the world in many ways and so teaching, learning and evaluation methods are also changed. To grab the attention of the students, to inculcate interest about the subject, for better understanding of the subject by the students, various tools

are available now on the internet. By applying those tools, every teacher can easily transfer the subject to the students. So, all the members unanimously agreed to adopt the technology in all ways.

Resolution:

It is resolved to adopt as many tools as possible to make the students to compete at global level.

Agenda 5:

To discuss about CSP/Internship/On-the-job training/apprenticeship offered for students.

Discussion:

A discussion was carried out by the committee members and most of the members suggested to send the students to chemistry related industries for doing internships.

Resolution:

It is resolved to follow the APSCHE guidelines for Community service project/Internship /On-job-training/apprenticeship in the given stipulated period for all students.

- At the end of semester II, there will be one 8 weeks Community Service Project.
- At the end of semester IV, there will be one 8 weeks Short-term Internship.
- Either in the 5th or 6th semester, 6 months Internship/On job training/Apprenticeship.

Agenda 6:

To identify potential subject experts to prepare question banks for all single major programme courses in compliance with Bloom's taxonomy based evaluation system.

Discussion:

In-charge of the Chemistry Department, Sri T. Srinivasa Rao expressed the idea of adopting AI technology for conducting the semester end examinations by the institute from the academic year, 2024-25 to avoid misunderstandings/misinterpretations. AI will randomly choose questions from the prepared question banks which are prepared by the approved subject experts in BoS meeting.

All the BoS members welcomed the involvement of AI in question paper setting and selected some senior faculty members as subject experts.

LIST OF EXAMINERS AND PAPER SETTERS/QUESTION BANK 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	Mrs. V. Ananta Lakshmi	ASD GDC(W), Kakinada	All
04	Sri T.V.V. Satyanarayana	PR GC (A), Kakinada	All
05	Dr. D. Ramarao		All
06	Dr. V. Mallikhajuna Sharma	GDC, Yeleswaram	All
07	Dr. D. Chenna Rao	GDC, Yeleswaram	All
08	Dr. G. Srinivasa Reddy	DLR College, G.Mamidada	All
09	Dr. V. Narayana Rao	GDC, Perumallapuram	All
10	Dr. Udaya Lakshmi	GDC, Eluru	All
11	Sri Lt. M.V. Prem Sagar	GDC, Perumallapuram	
12	Dr. K. Ravindra Babu	GDC, Tanuku	
13	Sri B. Surendra	GDC, Tadepalligudem	All
14	Sri Sadhik Ahmed	GDC, Kovvur	All
15	Sri V. Rambabu	PRGC(A), Kakinada	All

Resolution:

It is resolved to approve the subject experts list to prepare question banks for all chemistry courses.

Agenda 7:

To discuss and approve Department's Action plan of all activities and Budget proposals for the academic year, 2024-25.

Discussion:

An elaborative discussion was done in the preparation of Chemistry department's action plan for the academic year, 2024-25 and finally the following plan was prepared and approved by all the members of BoS.

LIST OF ACTIVITIES PROPOSED FOR THE ACADEMIC YEAR, 2024-25

S.No.	Month	WEEK/ DATE	Name of the activity	Name of Co-ordinator	Remarks
1.	June	21st	International Yoga Day	Dr. B. Mallikarjuna	
		26th	International Day Against Drug Abuse and illicit Trafficking	Sri J. Yacobe	
2	July	12th 19th	E. J. Corey Birthday Celebration Guest Lecture	Sri V. Sridhar Dr. M. Trinadh	
3	August	2nd	P.C. Ray Birthday – Elocution	Smt. M. Santhakumari	
		15th	Independence Day		
		3rd & 4th week	Deeksharambh Programme	Sri B. Venkata rao	
		4th week	Bridge course for 1st year students International Talk	All first year faculty Dr. P. Surekha	
4	September	13th	Workshop	Dr. M. Trinadh	
		16th	World Ozone Day International Seminar	Dr. B. Mallikarjuna Dr. V. Durga Praveena	
5	October	2nd	Gandhi Jayanthi – Peace Rally	Dr. B. Mallikarjuna	
		23rd	Mole day	Dr. G. Tejaswini	
		4th week	Lab to land	Dr. P. Murali krishna	
6	November	2nd week	Industrial visit	Dr. V. Satyanarayan	
		3rd week	Guest lecture	Sri M. Sudhakar rao	
		4th week	Lab to school	Dr. T. Narasimha Murthy	
7	December	2nd 10th 4th	National Pollution Control Day Noble day Chemical Disaster Prevention Day	Sri M. Prasad Smt. M. Padmaja Sri M. Prasad	
		4th week	Joy of Giving Awareness Programme	Sri V. Sridhar	
8	January	1st week 26th	Guest Lecture Republic Day	Sri V. Sridhar	
		4th week	Plastic Free Awareness Programme National Workshop	Dr. L. Rajeswari Dr. J. Suresh	
9	February	1st Week 2nd week	Educational Tour Guest lecture	Sri V. Sridhar Sri U. Saikrishna	
		28th	National Science Day	Sri B. Venkata Rao	
10	March	22th	World Water Day	Smt. Ch. Rajani	

11	April	4th week	RAC chemicals preparation	Dr. B. Mallikarjuna	
12	2024-25		Adopt a plant	Sri P. Sivakumar	
13	2024-25		Adopt a school programme	Smt. Ch. Rajani	

Resolution:

It is resolved to implement the approved plan for the benefit of students, faculty, institute and all stake holders.

Agenda 8:

To follow green methods in Chemistry Practical procedures.

Resolution:

It is resolved to adopt and implement micro scale experimentation for inorganic and organic qualitative analyses and two burette method for volumetric analysis for all practicals/wherever is possible in all semesters.