

# **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**

**2025-26**

### **AGENDA:**

1. To design syllabi 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 for the academic year, 2025-26.
  - a) Revised Single Major System for 2025-26 admitted batch and Single Major System for 2023-24 and 2024-25 admitted batches.
  - b) Value Added Course.
  - c) Inclusion of Additional Inputs in the Curriculum.
2. To discuss and approve evaluation process and question paper pattern for semester end examinations.
3. To design syllabi, teaching hours, credits, question paper pattern and Blue prints for Certificate Courses offered by Chemistry department.
4. To recommend Innovative teaching learning and evaluation tools.
5. To discuss about CSP/Internship/On-the-job training.
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.
7. To discuss and approve Chemistry Department Action plan of academic activities and Budget proposals for the academic year, 2025-26.
8. Any other with the permission of chair.

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**DEPARTMENT OF CHEMISTRY**

**Minutes of the Board of Studies Meeting - September, 2025.**

**DATE: 15-09-2025**

**TIME: 10.00 AM**

The Board of studies meeting of the Chemistry Department, convened on 15-09-2025 at 10.00 AM 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 2025-2026 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.)
3. B.Sc. Analytical Chemistry (Hons.)
4. B.Sc. Industrial Chemistry (Hons.)

He further told that due to lesser number of admissions, B.Sc. Industrial Chemistry (Hons.) programme was closed from the academic year, 2024-25 and hence, Department of Chemistry has been offering the following programmes from the academic year, 2024-25:

1. B.Sc. Chemistry (Hons. and Research)
2. B.Sc. Organic Chemistry (Hons.)
3. B.Sc. Analytical Chemistry (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 discussed thoroughly and decided to revise the syllabi for the 2025-26 admitted batch to meet the needs of the industry and society, revised syllabi for all the I B.Sc. chemistry related programmes and designed syllabi for all II B.Sc. and III B.Sc. Chemistry related programmes and made the following resolution.

Resolution:

It is resolved to

- a) Implement the revised syllabi for 2 Major courses and 2 practical courses for I semester and 2 Major courses and 2 practical courses for II semester of the Single Major System programmes for the 2025-26 admitted batch.
- b) Implement the designed syllabi for 4 Major courses and 4 practical courses for III semester and 3 Major courses and 3 practical courses for IV semester of the Single Major System Chemistry related programmes for 2024-25 admitted batch.
- c) Implement the designed syllabi for 4 Major courses and 4 practical courses for V semester of the Single Major System Chemistry (Hons.) and Analytical Chemistry (Hons.) programmes for 2023-24 admitted batch.
- d) Implement the designed syllabi for 4 Major courses and 4 practical courses for VI semester of the Single Major System Organic Chemistry (Hons.) and Industrial Chemistry (Hons.) programmes for 2023-24 admitted batch.
- e) Send III B.Sc. Organic Chemistry (Hons.) and III B.Sc. Industrial Chemistry (Hons.) students for Longterm internship in V semester whereas III B.Sc. Chemistry (Hons.) and III

B.Sc. Analytical Chemistry (Hons.) students for Longterm internship in VI semester

f) Offer the following courses as minor courses for other science major programmes in I, II, III, IV and V/VI semesters in the respective semesters as given below:

S.No.	Semester	Title of the Minor Course offered for other Major programmes
1	III	Fundamentals of Organic Chemistry
2	IV	Physical Chemistry-II
3	IV	General and Physical Chemistry
4	V/VI	Environmental Chemistry
5	V/VI	Green Chemistry & Nano technology

Agenda 1b:

To select and design syllabus for one Value Added Course.

Discussion:

In-charge of the Chemistry Department, Sri T. Srinivasa Rao stressed that students should take responsibility of building a healthy society in a sustainable way for future generations.

University Nominee, Sri B. Sanjeev Kumar opined that Environmental Education will be the suitable course for the above wish and it should be a compulsory course. All the members have accepted and made the following resolution.

Resolution:

It is resolved to implement "Environmental Education" as Value Added Course with 2 hours per week and with 2 credits.

Agenda 1c:

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:

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

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:  $5 \times 7 = 35$

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

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 practical, there will be an 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 one Certificate Course namely, 'Basic Analytical Techniques' from the Chemistry department and designed syllabi for 30 hours with 2 credits.

Resolution:

It is resolved to implement the Certificate Course, 'Basic Analytical Techniques' for the academic year 2025-26 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 for 2025-26 admitted batch.
- At the end of semester IV, there will be one 8 weeks Short-term Internship for 2024-25 admitted batch.
- Either in the 5th or 6th semester, 6 months Internship/On job training/Apprenticeship for 2023-24 admitted batch.

Agenda 6:

To identify potential subject experts to prepare question banks for all single major program courses in compliance with Bloom's taxonomy level 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, 2025-26 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**

<b>S. No.</b>	<b>Name of the Lecturer/Reader</b>	<b>College Address</b>	<b>Papers Taught</b>
01	Dr. K. Anitha	ASD College for Women (A), Kakinada	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. B. Madhav	GDC, Seetanagaram	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, 2025-26.

Discussion:

An elaborative discussion was done in the preparation of Chemistry department's action plan for the academic year, 2025-26 and finally the following plan was prepared and approved by all the members of BoS.

**LIST OF ACTIVITIES PROPOSED FOR THE ACADEMIC YEAR, 2025-26**

Sl. No.	Month	Week / Date	Name of the activity	Name of Co-ordinator	Remarks
1	June	21	International Yoga Day	Dr. B. Mallikarjuna	
		26	International Day Against Drug Abuse and Illicit Trafficking	Sri. J. Yacob	
2	July	11	E. J. Corey Birthday Celebration (As 12 <sup>th</sup> is Second Saturday)	Dr. P. Murali Krishna	
		1 <sup>st</sup> Week	Lab To School	Dr. L. Rajeswari, Dr. P. Surekha	
		22	Guest Lecture	Dr. M. Trinath	
3	August	2	P.C. Ray Birthday – Elocution	Dr. M. Santha Kumari	
		3 <sup>rd</sup> & 4 <sup>th</sup> week	Deeksharambh Programme	Sri. B. Venkat Rao	
		3 <sup>rd</sup> & 4 <sup>th</sup> week	Bridge course for 1st year students	All Faculty	
		4 <sup>th</sup> week	CAT Exam	Dr. M. Padmaja	
4	September	16	World Ozone Day	Dr. B. Mallikarjuna	
5	October	2 <sup>nd</sup> week	FDP/ Workshop	Dr. P. Surekha, Dr. L. Rajeswari	
		23 <sup>rd</sup>	Mole day	Dr. G. Tejaswini, Dr. M. Padmaja, Dr. V. Durga Praveena	
		4 <sup>th</sup> week	Lab to land	Dr. V. Satyanarayana, Sri. M. Prasad	
6	November	2 <sup>nd</sup> week	Industrial visit	Sri. V. Sridhar	
		3 <sup>rd</sup> week	Guest lecture	Dr. T. Narasimha Murthy	
		4 <sup>th</sup> week	International Seminar	Sri. V. Sridhar	
7	December	2	National Pollution Control Day	Dr. L. Rajeswari	
		10	Noble day	Dr. M. Padmaja	
		3 <sup>rd</sup> week	Chemical Disaster Prevention Day	Sri. M. Prasad	
		4 <sup>th</sup> week	Joy of Giving Awareness Programme	Sri. B. Venkat Rao	
8	January	1 <sup>st</sup> Week	Guest Lecture	Sri. P. Siva Kumar	

9	February	1 <sup>st</sup> Week	Educational Tour	Sri. V. Sridhar	
		2 <sup>nd</sup> week	Guest lecture	Sri. U. Saikrishana	
		28	National Science Day	Sri. B. Venkata rao	
10	March	22	World Water Day	Dr. Ch. Rajani	
11	April	4th week	RAC chemicals preparation	Dr. L. Rajeswari	
12	2025-26		Adopt a plant	Sri. P. Sivakumar	

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.

**The following members attended the Board of studies meeting:**

<b>S.No.</b>	<b>Name of the member</b>	<b>Signature</b>
1.	Sri B. Sanjeev Kumar, University Nominee, Head of the Department, Department of Chemistry, PR Government College, Kakinada	
2.	Dr. N. Ramana, Industrial Nominee, Chemist, ONGC, Rajamahendravaram.	
3.	Dr. G.Nagarjuna, Subject Expert, Head of the Department, Department of Chemistry, Government Degree College, Avanigadda, Krishna Dist.	
4.	Dr. R. Jala Babu, Subject Expert, Head of the Department, Department of Chemistry, YVNR Government Degree College, Kaikaluru, Krishna Dist.	
5.	Dr. N. Sudhakar Reddy Alumnus, Former Scientist, GVK Pharma, Uppal, Hyderabad	
6.	Sri J. YACOB, Staff Member	
7.	Sri K. VENKATA RAO, Staff Member	
8.	Sri V. SRIDHAR, Staff Member	
9.	Sri B. VENKATA RAO, Staff Member	
10.	Dr. T. NARASIMHA MURTHY, Staff Member	
11.	Dr. V. DURGA PRAVEENA, Staff Member	
12.	Dr. B. MALLIKARJUNA, Staff Member	
13.	Sri P. SIVA KUMAR, Staff Member	
14.	Dr. G. TEJASWINI, Staff Member	
15.	Dr. M. PADMAJA, Staff Member	
16.	Sri M. SUDHAKARA RAO, Staff Member	

17.	Dr. M. TRINADH, Staff Member	
18.	Sri U. SAI KRISHNA, Staff Member	
19.	Dr. M. SANTHA KUMARI, Staff Member	
20.	Dr. L. RAJESWARI, Staff Member	
21.	Dr. V. SATYANARAYANA, Staff Member	
22.	Sri M. PRASAD, Staff Member	
23.	Dr. P. MURALI KRISHNA, Staff Member	
24.	Dr. CH. RAJANI, Staff Member	
25.	Dr. P. SUREKHA, Staff Member	
26.	Dr. N. BABY NIRMALA, Staff Member	
27.	Dr. J. SURESH, Staff Member	
28.	Dr. E.S.R.S. SARMA, Staff Member	
29.	Mrs. J. SASHI SRI, Staff Member	
30.	Mrs. P. SURYA SREE, Staff Member	
31.	Sri K.V.V. RANGA RAO, Staff Member	
32.	Sri S.V.V. Durga Prasad, Staff Member	
33.	Sri Ch. SIVA KRISHNA, Staff Member	
34.	Mrs. D. J. SOWJANYA, Staff Member	
35.	Ms. S. Vineela, III B.Sc. Chemistry (Hons.), Student Nominee	

The following documents submitted to the Academic coordinator and Controller of Examinations:

1. Resolutions of Board of Studies Meeting.
2. Syllabi of I to VI semesters chemistry courses.
3. Syllabus of Value Added Course.
4. Syllabi of Certificate Courses.
5. Model question papers for all the above courses.
6. Revised List of Examiners.

Date: 15-09-2025.

Chairman,  
Board of Studies,  
Department of Chemistry.