

**Dr.C.S.RAO.P.G.CENTRE.**

**SRI Y.N.COLLEGE (AUTONOMOUS), NARSAPUR W.G.Dt., A.P.**

**NACC Accredited 'A' Grade College: Affiliated to Adikavi Nannaya University.**

**BOARD OF STUDIES OF P.G. CHEMISTRY**

**2022 – 2023**

**MEETING NOTICE**

A meeting of Board of Studies of the P. G. Chemistry will be held on 15-07 - 2022 at 03.00 P.M. in the P. G. Department of Chemistry, **Dr.C.S.RAO.P.G.CENTRE SRI Y.N.COLLEGE (AUTONOMOUS), NARSAPUR W.G.Dt., A.P.** for consideration and approval of the following agenda for the academic year, 2022- 2023.

You are cordially invited to the meeting and make necessary suggestions.

**AGENDA**

1. To discuss and ratify the M.Sc., Organic Chemistry Programme I & II year syllabi for the academic year 2022-2023.
2. To review and ratify the pattern & blue prints of the Internal, External and Practical Examinations.
3. To review the syllabus of the Certificate Course titled “Instrumental Methods of Analysis in Chemistry” which is offered in the IV semester.
4. To discuss the adoption of the blended pattern of the Teaching Methodology.
5. To discuss the conduct of a Workshop/Seminar on the “Recent Trends in Chemical Sciences”
6. Any other item.

**PRINCIPAL**

## RESOLUTIONS

**Resolution 1-** It is decided to offer the M.Sc. Organic Chemistry programme in four semesters with four theory papers in each semester along with three laboratory courses in first and second semesters and two laboratory courses in third semester; two laboratory courses along with project work in fourth semester. All papers in four semesters are core papers.

i.e The M.Sc. Organic chemistry programme consists of 26 papers ( 16 theory + 10 laboratory courses), one project work and viva-voce. Each theory paper will have 4 credits, each laboratory course will have 3 credits and project work & viva-voce will have 6 credits. i.e the programme will have the total of 100 credits (  $16 \times 4 = 64$ ; +  $10 \times 3 = 30$ ; +  $1 \times 6 = 6$ ).

**Resolution 2 – Programme structure** It is unanimously decided to adopt the following programme/ course structure for the four semesters of M.Sc. Organic chemistry.(Listed and Tabulated in Table 1,2,3,4)

**Resolution 3-Examination pattern:** As part of continuous evaluation, it is resolved to conduct Internal and External Examinations in each semester for every paper. The internal/mid Exams will carry 25 marks and the External Examinations will carry 75 Marks. It is further resolved that the minimum qualifying marks for each paper is 40% of the total marks (Grade points 4) secured in both internal and external examinations subject to the condition that the student has to secure 40% of 75 Marks in the Semester(external) examinations. There is no minimum pass mark for internal Exams.

**Resolution 4- Allotment of Internal Marks:** It is decided to conduct two Internal/Mid Examinations in every semester for every paper. The theory exam would be conducted for 20 Marks. The average of the two Internal Exams would be finalized. 5 Marks will be allotted for two assignments (5 marks).

Written test (Average of Two Mid s)	20 Marks
Assignments (Two)	5 Marks
Total	25 Marks

**Resolution 5- Blue Print:** It is resolved to implement the following Blue Print for the mid and Semester End exams.

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In the Internal question paper the student has to write:

Two Short Notes out of 4 for 6 (2×3) Marks

Two essays out of 4 for 14 (2 ×7) Marks.

In the External theory exam paper the student has to Write Two sections:

Section – A: 8 Essays (Either or Choice); 4×15=60 Marks

Section – B: 5 Short notes out of 8; 5×3=15 Marks.

**Resolution 6- Teaching Methodology:** It is resolved to adopt a blended teaching methodology comprises 80% of syllabus through classroom teaching and 20% of syllabus through online teaching via guest lectures by experts. ICT shall be the teaching methodology in addition to the traditional class Room Lectures.

**Resolution 7-Summer Project Work:** It is resolved that every student has to do summer project work during the first year summer i.e., after the completion of second semester in an industrial organization, for 4 to 6 weeks. Every student, under the direction of faculty-guide and industry guide, has to develop a project report on the work done and submit to the department at the end of the 4<sup>th</sup> semester. **The project report will be evaluated/ assessed/Viva-voce for 100 (25M+ 75M) Marks.** The Project work will be assessed by Internal faculty/guide for 25 marks and 75 marks will be awarded by the Examiners committee comprising the Department Head, One Senior Faculty Member and One External Examiner having 10 years of experience preferably Ph.D degree holder from an Autonomous college M.Sc. Organic Chemistry Department or a Senior Faculty Member from the parent University or any other University.

**Resolution-8:** It is resolved to execute the certificate course titled “Instrumental Methods of Analysis in Chemistry” with the framed syllabus in the annexure to train the students on instruments handling. This certificate course is not included in the course curriculum.

**Resolution-9:** It is resolved to conduct at least one workshop/Seminar on topics of Green Chemistry, Chemical safety & accidents and Environment concern.

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Table -1

Semester – I

Paper / Paper Code	Title of the Paper	Instruction Hours Per Week			Credits	Evaluation			Total Marks
		L	T	P		CIA Marks	SEE		
							Marks	Duration	
Paper-I 20OCHT 11	General Chemistry - I	4	--	--	4	25	75	3 hours	100
Paper-II 20OCHT 12	Inorganic Chemistry - I	4	--	--	4	25	75	3 hours	100
Paper-III 20OCHT 13	Organic Chemistry - I	4	--	--	4	25	75	3 hours	100
Paper-IV 20OCHT 14	Physical Chemistry - I	4	--	--	4	25	75	3 hours	100
Practical-I 20OCHP1 5	Inorganic Chemistry -I	--	--	6	3	25	75	3 hours	100
Practical-II 20OCHP1 6	Organic Chemistry -I	--	--	6	3	25	75	3 hours	100
Practical-III 20OCHP1 7	Physical Chemistry -I	--	--	6	3	25	75	3 hours	100
Total		16		18	25	175	525	21hours	700

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Table -2

Semester – II

Paper / Paper Code	Title of the Paper	Instruction Hours Per Week			Credits	Evaluation			Total Marks
		L	T	P		CIA Marks	SEE		
							Marks	Duration	
Paper-I 20OCHT21	General Chemistry - II	4	--	--	4	25	75	3 hours	100
Paper-II 20OCHT22	Inorganic Chemistry - II	4	--	--	4	25	75	3 hours	100
Paper-III 20OCHT23	Organic Chemistry - II	4	--	--	4	25	75	3 hours	100
Paper-IV 20OCHT24	Physical Chemistry - II	4	--	--	4	25	75	3 hours	100
Practical-I 20OCHP25	Inorganic Chemistry-II	--	--	6	3	25	75	3 hours	100
Practical-II 20OCHP26	Organic Chemistry-II	--	--	6	3	25	75	3 hours	100
Practical-III 20OCHP27	Physical Chemistry-II	--	--	6	3	25	75	3 hours	100
Total		16		18	25	175	525	21hours	700

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Table -3

Semester – III

Paper / Paper Code	Title of the Paper	Instruction Hours Per Week			Credits	Evaluation			Total Marks
		L	T	P		CIA Marks	SEE		
							Marks	Duration	
Paper-I 20OCHT 31	Organic Reaction Mechanisms- I and Pericyclic Reactions	4	--	--	4	25	75	3 hours	100
Paper-II 20OCHT 32	Organic Spectroscopy -I	4	--	--	4	25	75	3 hours	100
Paper-III 20OCHT 33	Modern Organic Synthesis-I	4	--	--	4	25	75	3 hours	100
Paper-IV 20OCHT 34	Chemistry of Natural Products	4	--	--	4	25	75	3 hours	100
Practical- I 20OCHP 35	Multistep Synthesis of Organic Compounds	--	--	6	3	25	75	3 hours	100
Practical- II 20OCHP 36	Estimations and - Chromatogra phy	--	--	6	3	25	75	3 hours	100
Total		16		12	22	150	450	21hours	600

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Table -4

Semester – IV

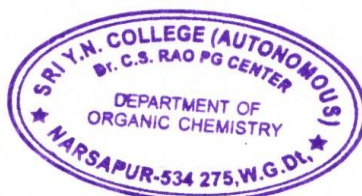
Paper / Paper Code	Title of the Paper	Instruction Hours Per Week			Credits	Evaluation			Total Marks
		L	T	P		CIA Marks	SEE		
							Marks	Duration	
Paper-I 20OCHT 41	Organic Reaction Mechanisms-II and Organic Photochemistry	4	--	--	4	25	75	3 hours	100
Paper-II 20OCHT 42	Organic Spectroscopy-II	4	--	--	4	25	75	3 hours	100
Paper-III 20OCHT 43	Modern Organic Synthesis-II	4	--	--	4	25	75	3 hours	100
Paper-IV 20OCHT 44	Bio-Organic Chemistry	4	--	--	4	25	75	3 hours	100
Practical-I 20OCHP 45	Chromatograph ic Separations and Isolations & Identification of Natural Products	--	--	6	3	25	75	3 hours	100
Practical-II 20OCHP 46	Spectral Identification of Organic Compounds	--	--	6	3	25	75	3 hours	100
Project 20OCH P47	Project Work & Viva voce	--	--	--	6	25	75	----	100
Total		16		12	28	175	525	18hours	700

\* **CIA** – Continuous Internal Assessment, **SEE** – Semester End Examination

\*4 Weeks Training in Industry/Chemical R&D/ Organization.

**Total Credits: 100, Total Marks: 2700**

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