

**KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)**  
**COIMBATORE 641029**  
**Department of CHEMISTRY**

**Minutes of the Board of Studies:**

The Board of Studies meeting was held on 19.03.22 .The Chairman welcomed and outlined the changes to be made in the following for the board approval.

Item 1. To consider revision in the Curriculum, Scheme of Examination and Syllabi of UG/PG/Certificate / Diploma courses and approval.

Item 2. To suggest the panel of names for appointment of examiners.

Item 3. Other academic activities in the department.

As per the suggestions and recommendations given by the various Stakeholders on the above items discussed, the existing/revised the Scheme of Curriculum / Scheme of Examination / Syllabi and Panel of Examiners are to be followed is annexed herewith for the implementation from the commencement of the Academic year 2022 – 2023.

The members after careful scrutiny of the changes to be made, unanimously accorded approval for the proposed changes/modifications. They also resolved to authorize the Chairman of Board of Studies to place the changes/modifications now approved by the BOS before the Standing Committee on Academic affairs and Academic Council.

Sem.	Course code	Name of the Course	Changes made
1	22UCH101	Core chemistry paper – I Inorganic, organic and physical chemistry – I	Nomenclature of Inorganic and Organic compounds were replaced by Chemical bonding
2	22UCH202	Core chemistry paper – II Inorganic, organic and physical chemistry - II	Unit III is revamped
3	22UCH1A1 /22UCH2A 1	Allied Chemistry Paper - I	Instead of hybridization and isomerism in compounds were replaced by Electron Displacement Effects, Aromaticity and Substitution reaction.
4	22UCH404	IPR related topic is revamped Inorganic, organic and physical chemistry - IV	IPR related topic is revamped
4	22UCH4S2	Skill based subject-II water pollution and management	Following topics were included : Sewage and domestic wastes- Industrial effluents- Agricultural discharges- Fertilizers- Detergents- Toxic metals- Siltation- Thermal pollutants- Radioactive materials

			in water. Radioactivity of water-methods of removing radioactivity from water
2&4	22UCH1A2 /22UCH2A 2	Allied Chemistry Paper - II	Adsorption and solution were replaced by quantitative and qualitative analysis.
5	22UCH506	Core Chemistry Paper – VI Inorganic Chemistry - I	second half of unit V is incorporated with applications of Borazines and substituted borazine -Boroxine, N-trimethyl borazine- B- trimethyl borazine
5	22UCH5X1	Extra Departmental Course (EDC) - Chemistry In Day Today Life	Chemistry in Day Today Life, instead of fermentation, vitamins in food were added.
6	22UCH6S3	Skill Based Subject – III Food Chemistry	Minerals in food were added. Amino acids in vegetables, vinegar and fruit juices were replaced by food additives.
5 or 6		Major Elective - III Pharmaceutical Chemistry	Entire 5 units are revamped based on present Industrial contemporary challenges
5 or 6		Major Elective - VI Leather Chemistry	Entire 5 units are revamped based on present Industrial contemporary challenges
<b>PG Scheme and Syllabus</b>			
I	22PCH101	C.P.1 – Organic Chemistry I	In unit III, Schiemann reaction is included.
I	22PCH102	C.P.2 – Inorganic Chemistry I	As per the suggestions given by the subject experts, Unit I-‘Acid-base concepts’ is replaced by ‘Inorganic Polymers’ which is deleted from C.P. 8- Inorganic chemistry III. In unit III, the following topics are included. Relationship between molecular symmetry and crystallographic symmetry Crystal Growth methods: From melt and solution (hydrothermal, Gel methods).
I	22PCH103	C.P.3 – Physical Chemistry I	In unit III, the following topics are included. Concept of molecular mass-Number average, weight average, Viscosity average Determination of Molecular mass - Osmometry- Light Scattering method –


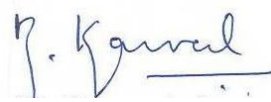

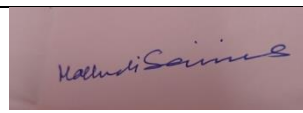



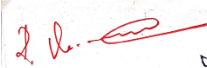
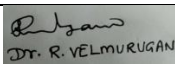

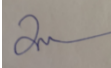
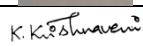
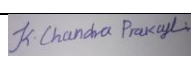

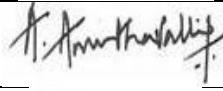


			Ultracentrifugation, Viscometer
II	22PCH204	C.P.4- Organic Chemistry II	The following topics are included in Unit I. Knovenagel Condensation Darzen's glycidic ester Condensation Peterson alkene synthesis In Unit IV, Grothus-Draper law, Einstein's Law of photochemical equivalence are specified and Photo Fries rearrangement, oxa & aza - di- $\pi$ methane rearrangement are included.
III	22PCH306	C.P.6- Physical Chemistry II	In Unit III, 'Approximate wave function of many electron atoms- Hartree self-consistent field theory' are included.
III	22PCH307	C.P.7- Organic Chemistry III	'Benzidine rearrangement, Sommelet-Hauser rearrangement' are included in Unit I. 'NaCNBH <sub>3</sub> , DIBAL-H, Sodium-alcohol, stannous chloride (Stephen reaction)' are included in Unit II.
III	22PCH308	C.P.8-Inorganic Chemistry III	Unit IV-Bioinorganic chemistry is given as two units and Unit V-Inorganic polymers is brought to 22PCH102.
IV	22PCH4CP	C.Pr.5 - Organic Chemistry Practical- II	'Estimation of Ascorbic acid' is added.
I/II	22PCH1E1/ 22PCH2E2	ME – Green and Nano Chemistry	In unit V, Scanning Tunnelling Microscope is included.
III/IV	22PCH3N1 /22PCH4N 2	NME- Scientific Thesis Writing	In unit V, 'Working knowledge in software-Origin, Chemdraw' is included.

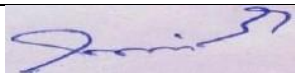

#### Other Academic Activities:

Assessment pattern is ratified as 50% CIA + 50 % ESE for the Academic year 2021-2022. In the above mentioned Assessment pattern will be implement in the coming academic year (2022 – 23)

The board approved the above items.

Signature of the Board Members

S.No.	Name	Designation	Signature
1	Dr. (Ms.) D. Nalini (University Nominee)	Assistant Professor & Head PSGR Krishnammal College For Women,	
2	Dr.R. Karvembu (Subject Expert)	Professor Dept. of Chemistry National Institute of Technology	
3	Dr. R. Ramesh (Subject Expert)	Professor Dept. of Chemistry Bharathidasan University	
4	Dr. Malladi Srinivas (Industrialist)	Chief Scientific Officer, Research & Development, Analytica Chemie Inc,	
5	Dr. K. R. Aranganayagam (Meritorious Alumni)	Associate Professor, Department of Chemistry Kumaraguru College of Technology	
6	Dr. V. Sangeetha	Chairperson	
7	Dr. M. S. Sivaramkumar	Members of Faculty of the Department	
8	Dr. R. Manimekalai		
9	Dr. R. Velmurugan		 DR. R. VELMURUGAN
10	Dr. K. Saminathan		
11	Dr. E. Jayanthi		
12	Dr. K. Krishnaveni		 K. Krishnaveni
13	Dr. K, Chandraprakash		 K. Chandra Prakash
14	Dr. K. Kalpanadevi		
15	Dr. A. Amuthavalli		
16	Dr. A. Pushpaveni		
17	Mrs. V. Ramya	 V. Ramya	

18	Dr. G. Vadivelan		
19	Alaka Rohini S M 21CH010, I M. Sc Chemistry	Student Representative	



Signature of the Chairman of the Board  
Dr. V. Sangeetha