

The 16th meeting of Board of Studies in chemistry (PG) under autonomous Scheme was conducted on 09.03.2019 (Saturday) at 2.00 pm in the department.

Members present :

Dr. K. Kalpanadevi	chairman
Mrs. A. Amuthavalli	member
Dr. A. Puelaveni	member
Mrs. A. Nagaveni	member
Mrs. V. Ranya	member

[Handwritten signatures]
 Dr. K. Kalpanadevi
 Mrs. A. Amuthavalli
 Dr. A. Puelaveni
 Mrs. A. Nagaveni
 Mrs. V. Ranya

Dr. S. Ponnusamy Subject Expert

Mrs. R. Narmadha

Student Representative.

[Handwritten signatures]
 Dr. S. Ponnusamy
 Mrs. R. Narmadha

Members of leave of absence :

Dr. K. Pandian	University Representative
Dr. K.P. Elango	Subject Expert
Dr. R. Sivakumar	Alumni
Mr. B. Gururajan	Representative from Industry.

The chairman welcomed the gathering and then requested them to take up the agenda for discussion.

Item 1 : To revise the syllabus in such a way that it contains the topics of current trends.

Item 2 : To include 2 new papers as electives, replacing ^{two of} the existing papers.

The modifications made in the syllabus are :

1. In organic chemistry I, 'heteroannulenes' has been removed, 'Generation of intermediates' has been included in unit I. In unit II, 'adenium ion mechanism' - 'orientation and reactivity of mono and disubstituted benzene' have been included. In unit III, 'SNAr and Benzyne mechanisms' have been included. In unit IV, 'Synthetic equivalents ^{and protecting groups}' have been included.
 2. In Inorganic chemistry I, 'ionic radii, electronegativity', HSAB - Theory and principle' have been included. 'Non-aqueous solvents' has been removed in unit I. In unit II, 'madelung constant' has been removed. In unit IV, 'Nuclear power projects in India' has been included.
 3. In Physical chemistry I, 'Surface phenomenon' has been removed and 'Autocatalysis' has been included in unit IV.
 4. In organic chemistry II, 'dehydration of alcohols and dehydrohalogenation' have been removed from unit I. In unit IV, Quenching is included. In unit I, E₁CB mechanism is included. In unit II, 'enantiotopic and diastereotopic faces, atoms and ligands', 'stereospecific and stereoselective synthesis' have been included.
 5. In Inorganic chemistry II, 'co-ordination numbers and their geometries' are included in an elaborative manner in unit I.
 - Unit II - Theories - VBT, CFT, MOT.
 - Unit III - Coordination chemo IV.
 - Unit IV - 'Applications of trans effect' is included.
 - Unit V - Bioinorganic chemistry is shifted to unit Inorganic chemistry III, instead 'Reaction mechanism' is included.
- Text book - 'MMT' has been added.

6. In physical chemistry i, 'S.E for particle waves, Hermitian operator', 'Quantization of ... values' - removed in unit i. Names of three units are changed. In unit ii, 'infinite potential barrier' is included. The topics 'S.E for H atom, Separation of variables' are shifted to unit iii.
7. In organic chemistry iii, the topics 'DCC, Woodward-Prevost hydroxylation' are removed from unit ii.
8. In Inorganic chemistry iii, names of first 3 units are changed. In unit iii, reactions of coordinated CO, NO, arenes are removed. Unit iv - Bioinorganic chemistry.
9. In physical chemistry iv, 'Phase' has been removed from unit i. In unit iv, 'ensembles' are included and 'justification of nomenclature' is removed. In unit v, 'Photosynthetic PSI, PSII' is included and 'excited state dipole moment' is removed.
10. In Spectroscopy, 'Beer-Lambert's law' is given specifically, instead of 'laws of photochem'. Text book - 'Fundamentals of molecular spectroscopy' by Banwell is included.
11. Major Elective paper - 'Physical methods in chemistry' is renamed as 'Analytical chemistry'. In unit iv, 'ESR - application to Cu complexes' is included.
12. In Major Elective paper - 'Green and Nanochemistry' 3 units are distributed for Green che. and 2 units for Nanochemistry. 'Supramolecular che' has been removed. Two New elective papers - 'Selected topics in chemistry and Textile and Dye chemistry' have been introduced.

13. NME - Environmental Chemistry is renamed as 'Chemistry of Environment'.
14. NME - 'Scientific Thesis writing and paper presentation' is renamed as 'Scientific Thesis writing'. Unit 2 title is changed as manuscript preparation. 'Journal article - types, impact factor, h-index' are included.
15. ALC 2 - 'chemistry of drugs' (name changed) 'Introduction to drugs' - is included in unit 3.
16. In ALC 3 : Food chemistry, 'nutraceuticals' is included in unit 5. Reference book - new edition is included for 'Food chemistry by Srue lakshmi'.

Suggestions given by the board :

Non-major Elective papers can be offered to the Students of other departments.

Feedback collected from all the Stakeholders were also analysed and discussed.

The board recommended the chairman to present the curricula, Scheme of Examinations and Syllabus in the ensuing academic council meeting for approval and implementation for the Students to be admitted from the academic year 2019-20 and onwards.

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