

DEPARTMENT OF CHEMISTRY

SACRED HEART COLLEGE, THEVARA (AUTONOMOUS)

Board of Studies Meeting on 16/03/2015 @ 02.15 am.

Venue: Staff Room

Members Present:

1. Krishna Kumar I. M. (Industry)
2. Franklin J.
3. Dr. Jude Martin Mendez, Associate Prof., St. Alberts' College, Ekm.
4. Dr. Joseph T. Moolayil
5. Dr. V. S. Sebastian
6. Dr. Jose K. B.
7. Ignatious Abraham
8. Midhun Dominic C. D.
9. Aasha Mathew
10. Abi T. G.
11. Senju Devassykutty
12. June Cyriac
13. Jinu George
14. Dr. Grace Thomas
15. M. George
16. Thommachan Xavier

The meeting started at 2.15 pm in the Dept. and was attended by 16 members.

The meeting verified the revised syllabus for UG Programme and approved to submit in the Academic Council. In the final draft of the syllabus, the total credit, including additional core course on Environment Science is 620. For complementary course the total credit is 14. There is an extra credit course on social work with one credit which is mandatory and another extra credit course- Club activities (Credit -1) which is desirable. Those students who are doing internship programme can acquire one additional extra credit, which is not mandatory.

The meeting approved the following changes in the draft B.Sc. Chemistry-2015 syllabus.

- a) A new elective course titled "Advances in Chemistry" has been introduced in semester 6.
- b) The semester 1 core course "Theoretical and Inorganic Chemistry – I" has been thoroughly revised by introducing a module of quantum chemistry.
- c) "Physical Chemistry-I and Physical Chemistry-II" courses of Semester 5 and Physical Chemistry-IV Course of Semester 6 has been revised.
- d) The following complementary courses have been revised.

Advanced Physical Chemistry – I	Semester 3 (Physics)
Inorganic & Bio-inorganic Chemistry	Semester 3 (Botany & Zoology)
Advanced Bio-Organic Chemistry	Semester 4 (Botany & Zoology)

The meeting approved the syllabus and decided to submit in the coming Academic Council meeting for final approval.

The meeting ended by 04.00 pm.



Dr. Joseph John
Chairman
Board of Studies



Dr. Johnson X Palackappan
Principal
Sacred Heart College (Autonomous)
Thevara, Kerala

DEPARTMENT OF CHEMISTRY

SACRED HEART COLLEGE, THEVARA (AUTONOMOUS)

Minutes of the Board of Studies of Chemistry Held on 03/12/2015/ at

Members Present:

1. Dr. Joseph John, Chairman
2. Dr. Jude Martin Mendez, St. Alberts' College, Ekm.
3. Dr. Joseph T. Moolayil, S. H. College, Thevara
4. Dr. V. S. Sebastain, S. H. College, Thevara
5. Dr. M. George, S. H. College, Thevara
6. Dr. Jinu George, S. H. College, Thevara
7. Dr. RamaKrishnan S., S. H. College, Thevara
8. Midhun Dominic C. D., S. H. College, Thevara
9. Dr. Grace Thomas
10. Dr. Kochu Baby Manjooran S., BPCL
11. Dr. KrishnaKumar I. M.
12. Dr. Jorphin Joseph
13. June Cyriac

The following modifications were discussed and accepted.

- Pattern of questions for external examination –modified.
13 (10) – 20 Marks
8 (5) - 25 Marks
4 (2) - 30 Marks
- Credits for Project changed.
- The meeting resolved to spare three months after semester 4 examinations exclusively for MSc projects in reputed national institutions.

Organic Chemistry

- Sem 1- **Basic Organic Chemistry** - Revised
- Sem 2- **Organic reaction Mechanism** – Revised
- Sem 3- 1. **Organic Synthesis** - Revised
- **Spectroscopic Methods in Chemistry**
- Sem 4 – **Advanced Organic Chemistry** – Reorganised additions

Physical Chemistry

- The papers are renamed as Physical chemistry I, II, III and IV respectively in the four semesters.
- The contents of Classical Thermodynamics are reduced from 27 hrs to 19 hrs removing the repetition of degree Syllabus.
- A 12 hrs. topic, Green Chemistry was removed from paper III as the contents are covered in the Organic Chemistry paper in IVth semester.
- New experiments on Electrochemistry and those using UV-Vis Spectrometer are included in the Practical.

Theoretical Chemistry

- Sem 1. – Introductory part of Quantum Mechanics retained with slightly modified topics of Group Theory.
- Sem 2 - New Topic introduced – Applications of Quantum Mechanical Principles in Spectroscopy.
 - A new set of Computational Chemistry experiments related to Organic Chemistry and Physical Chemistry is introduced in the first year in. Physical/Computational Chemistry practicals.

Inorganic Chemistry

- Sem 1- Topics like Organometallic Polymers eliminated.
Nuclear Chemistry content was increased with suitable addition.
- Sem 2- No significant changes in the contents.
- Sem 3- No significant changes in the contents.
- Sem 4 – **Advanced Inorganic Chemistry** paper has been modified with addition.

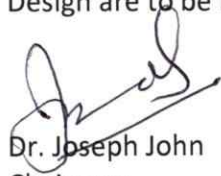
Practicals

- Sem 1+2 - added Separation of Metal Ions by Chromatographic Methods
- Sem 3+4 - **Inorganic Chemistry** practicals have been enriched by adding Preparation of Metal Nano Particles.
- Sem 3 & 4 – **Organic Chemistry** practicals have been modified.

Applied Chemistry – Pharmaceutical Chemistry

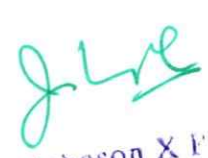
Syllabi have been rigorously modified and advanced topics are included. The contents of Bio-Chemistry are retained almost the same.

As part of value addition, Computational Chemistry and Drug Design and Docking and Drug Design are to be introduced as new value-added courses.



Dr. Joseph John
Chairman

Board of Studies



Dr. Johnson X P
Principal
Sacred Heart College (Autonomous)
Thevara, Kochi-682 013