

# **Minutes of the Board of Studies in Chemistry 2015-16**

SACRED HEART COLLEGE KOCHI

Minutes of the BOS meeting held on 16-10-2015. at 11 am  
at the dept. of Chemistry.

Members present.

Dr. Joseph John

Dr. K-A Jose.

Dr. Joseph T. Moolayil.

Dr. M. George.

Dr. Franklin J.

Prof K-K. Vijayan (special invitee)

Dr. Jim George

Dr. Graue Thomas.

Dr. Ignatius Abrahams.

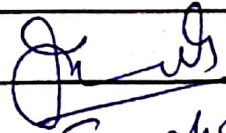
Dr. Abi T-G.

The meeting started at 10:30 am. on the Department.

The meeting discussed the syllabus for MSc  
Pharmaceutical Chemistry in detail. It was also  
proposed to reduce the content of the course  
Medicinal Chemistry and name the courses as  
Pharma. Chem-I, II, and III.

To introduce new experiments in Biochemistry and  
Pharmaceutical analysis.

The meeting came to an end by 1:30 pm.

  
Dr. Joseph John.

Minutes of the Bd of Chemistry held on ~~Rthursday~~  
3-12-15 at S.H. College Chemistry Department of Chemistry  
S.H. College, Thevara.

Members present.

1. Dr. Joseph John. Chairman. ~~Present~~
2. Dr. Jude Martin Mendez St. Albert's College, ECM ~~Present~~
3. Dr. Joseph T. Moolayil S.H. College, Thevara ~~Present~~
4. Dr. V.S. Sebastian, S.H. College, Thevara ~~Present~~
5. Dr. M. George " " ~~Present~~
6. Dr. Jenu George " " ~~Present~~
7. Dr. Remalev. Simon S " " ~~Present~~
8. Modhun Dominic C-D " " ~~Present~~
9. Grace Thomas ~~Present~~
10. Dr. Kochu Baby Manjooran, S, BPCA ~~Present~~
11. Dr. Krishnakumar M ~~Present~~
12. Dr. Sorphin Joseph ~~Present~~
13. June Cyriac ~~Present~~

The following modifications were discussed and accepted.

⇒ Pattern of questions for external examination - modified

13(10) ⇒ 20 marks

(5) ⇒ 25 marks

4(2) ⇒ 30 marks

⇒ Credits for project changed

⇒ Organic Chemistry

Sem 1 Basic organic Chemistry - Reorganised with 10% addition

Sem 2 Organic reaction mechanism - Reorganised with 10% addition

Sem 3 1. Organic syntheses - Reorganised with 15% addition

2. Spectroscopic methods in chemistry - No much change

Sem 4 Advanced Organic Chemistry - Reorganised with 30% addition

⇒ Physical Chemistry

• The papers are renamed as physical chemistry I, II, III and IV separately

in the first semesters.

- The contents of classical thermodynamics were condensed and reduced from 29 hrs to 19 hrs removing the repetitions of degree syllabus.
- A 12 hr topic, group chemistry was removed from paper III as the contents are covered in the organic chemistry paper in IV<sup>th</sup> semester.
- New experiments on electrochemistry and their using uv-vis spectrometer are included in the practicals.

### ⇒ Theoretical Chemistry

- Sem 1 ⇒ Introductory part of quantum mechanics retained slightly modified topics of group theory
- Sem 2 ⇒ New topic introduced - Applications of quantum mechanical principles in spectroscopy  
Modified the content of computational chemistry with a simpler approach.  
⇒ 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

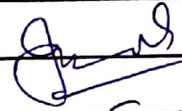
- Sem 1 ⇒ Topics like organometallic polymers eliminated  
Nuclear chemistry content was increased with suitable additions
- Sem 2 ⇒ No significant change in the contents
- Sem 3 ⇒ No significant changes in the contents
- Sem 4 ⇒ Added 'Advanced topics in coordination chemistry'

### • Practicals

Sem 1st added separation of metal ions by chromatographic methods  
Sem 3rd added preparation of metal nanoparticles.

### Applied Chemistry - Pharmaceutical Chemistry

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

  
Dr. Josephine P. Chh.