

**Parvatibai Chowgule College of Arts & Science**  
(Autonomous)  
Margao – Goa

**MINUTES OF THE MEETING OF THE BOARD OF STUDIES IN CHEMISTRY**  
held on 22<sup>nd</sup> October 2016 at 10:00 A.M.

A meeting of the BOS of Department of Chemistry was hereby convened on 22<sup>nd</sup> October 2016 at 10 a.m. in the Auditorium, Parvatibai Chowgule College of Arts & Science, Margao – Goa. Since the members present represented the Quorum, the BOS began its proceedings.

Minutes are presented in the format.

Members present:

- |                             |                            |
|-----------------------------|----------------------------|
| 1. Dr. Roopa S. Belurkar    | –Chairperson               |
| 2. Dr. J. S. Budkuley       | - Academic Council Nominee |
| 3. Dr. S. P. Kamat          | - Expert                   |
| 4. Dr. J. B. Fernandes      | - Vice-Chancellor Nominee  |
| 5. Shri N. G. Rivonkar      | – Member                   |
| 6. Dr. Sachin B. Kakodkar   | – Member                   |
| 7. Dr. Manjita R. Porob     | – Member                   |
| 8. Mrs. Padmini C. Panjekar | - Member                   |
| 9. Dr. Lactina R Gonsalves  | – Member Secretary         |
| 10. Dr. Rohan K. Kunkalekar | – Member                   |
| 11. Dr. Sandesh T. Bugde    | – Member                   |

Members absent:

1. Dr. Shirishbai Patel --- Apologies for absence vide telephonic conversation
2. Dr. A. K. Srivastava --- Apologies for absence vide telephonic conversation
3. Dr. J. Seetaramappa --- Apologies for absence vide telephonic conversation
4. Dr. G. K. Naik --- **ABSENT**

Proceedings:

At the outset, the new Chairperson Dr. Roopa Belurkar welcomed the B.O.S members for the 4<sup>th</sup> B.O.S Meeting and informed the members that she has taken charge from 12<sup>th</sup> September 2016 and even at short notice the members have done a commendable job of drafting the syllabi of Semester V and VI, except the syllabi for 2 Elective courses (Semester V and VI each) which is pending due to replacement and restructuring of elective courses. The business was transacted as per the agenda.

Agenda items:

1. To approve the syllabi of Semester V and Semester VI
2. A.O.B.

Part A: Discussion of agenda.

**Agendum 1**

Discussion on the syllabi of Semester V and Semester VI

1. The syllabi of the undergraduate courses were presented and discussed at the meeting. The BOS suggested certain changes in the theory and laboratory courses, which was accepted for implementation.
2. The BOS suggested some changes in the title of Core course of Semester V and Semester VI which have been implemented.
3. The BOS suggested revising the laboratory course in all the courses, since most of the practicals included therein, was not commensurate with theory.
4. The BoS was aware of the lack of sophisticated laboratory equipments needed to run certain practicals. Nevertheless, the BOS recommended to design and include practicals which is commensurate with theory and depending on the syllabi, a list of infrastructure facilities required for the practicals should be put forward to the Management. The BOS also recommended that the suggested changes be incorporated.
5. The subject experts advised the BOS members to design at least some experiments in Physical Chemistry course based on G.M. Counter.
6. The BOS pointed out that the referencing style is not uniform and suggested using one standard and approved format throughout. Also, the BOS suggested including the reference numbers after each topic.
7. The BOS felt that there were fewer courses in Physical Chemistry as compared to other branches of Chemistry and accordingly advised the members to review and restructure the entire course.
8. The BOS subject experts suggested to draft another course in Physical Chemistry containing topics in thermodynamics and chemical kinetics to make up for the lack of courses in Physical chemistry.
9. The BOS recommended having another meeting preferably before the commencement of next academic year to decide on the courses in Physical Chemistry and for an overall review and restructuring of the entire syllabi.
10. The BOS suggested proof reading the syllabi for formatting and grammatical errors.

**Agendum 2**

Under A.O. B. the following points were discussed.



a) Replacement of some of the elective courses and restructuring of the syllabi of semester V and VI.

1. With respect to the syllabi of Semester V, the course CHE-V.E-12 Chemistry of Main Group Elements is replaced with CHE-V.E-12 Selected Topics in Inorganic Chemistry, which is approved by the BOS.
2. With respect to semester VI, the course CHE-V.E-13 Applied electrochemistry is replaced with CHE-V.E-13 Principles and Applications of Organic Spectroscopy and the course CHE-VI.E-14 Instrumental Methods in Analytical Chemistry is replaced with CHE-VI.E-14 Environmental Chemistry.
3. The courses CHE-VI.E-15 Introduction to Nanomaterials and CHE-VI.E-16 are restructured and combined into the course CHE-VI.E-15 Nanomaterials and Solid State Chemistry, as per the suggestions of the BOS during the previous meeting.
4. Since the Semester V elective course, CHE-V. E-11 Electroanalytical Techniques and CHE-V. E-13 Applied Electrochemistry was not drafted, the BOS advised to combine the courses as CHE-VI. E-13 Instrumentation Techniques in Chemistry and requested the Physical chemistry teachers to draft the syllabus for the same containing topics in electrochemistry, electroanalytical techniques, BET surface area and cyclic voltammetry.
5. One new elective course in Physical Chemistry titled "Selected Topics in Physical Chemistry" will be included to compensate for the lack of courses in Physical Chemistry.
6. The BOS suggested that in case a choice is not given for the students to opt for the elective courses in semester V and VI, than the course CHE-VI.E-14 Environmental Chemistry should be dropped.
7. The BOS suggested that the courses CHE-V.E-9 Heterocyclic Chemistry and CHE-V.E-10 Organometallic Chemistry should be combined.

b) Training for the teachers

1. After reviewing the syllabi drafted for Semester V and VI, the subject experts volunteered to train the teachers in some of the experiments to be conducted in their respective courses. In view of this, a 2-3 days workshop is planned by the BOS.

**Part B:** Resolutions/Recommendations that require consideration/approval of the Academic Council.

1. The syllabi of Semester V and VI are restructured and the elective courses have been combined or replaced. The BOS passed the resolution to restructure and replace the courses. The new structure is given as follows;

SEMESTER	CORE COURSES	ELECTIVE COURSES			
V	CHE-V Advanced Chemistry:	CHE-V Heterocyclic and Organometallic	CHE-V Selected Topics in	CHE-V Selected Topics in	CHE-V Environmental Chemistry

	Physical and Inorganic	Chemistry	Physical Chemistry	Inorganic Chemistry	
VI	CHE-VI Advanced Chemistry: Organic and Analytical	CHE-VI Principles and Applications of Spectroscopy	CHE-VI Instrumental Techniques in Chemistry	CHE-VI Nanomaterials and Solid State Chemistry	CHE-VI XXXXXXXX

2. The syllabi of Semester V and VI of the undergraduate courses were presented and discussed at the meeting. After corrections and changes suggested by the subject experts, the BOS resolved to pass the syllabi for the following undergraduate courses:

Sr. No.	CORE COURSE	Nature of the course	PG Level at which offered.
1	Advanced Chemistry: Physical and Inorganic	Core	
2	Advanced Chemistry: Organic and Analytical	Core	
3	Principles and Applications of Spectroscopy	Elective	
4	Selected Topics in Inorganic Chemistry	Elective	
5	Nanomaterials and Solid State Chemistry	Elective	
6	Environmental Chemistry	Elective	

3. The BOS has passed a resolution to design the following courses;

Sr. No.	CORE COURSE	Nature of the course	PG Level at which offered.
7.	Heterocyclic and Organometallic Chemistry	Elective	
8.	Selected Topics in Physical Chemistry	Elective	
9.	Instrumental Techniques in Chemistry	Elective	
10.	(Not decided)	Elective	

4. The BOS passed a resolution to design new experiments in some of the elective courses and to conduct a workshop in this regards.

The Chairperson thanked the members of the Board of Studies in Chemistry for their valuable contribution and active participation.

The meeting ended at 5:45 p.m. with a vote of thanks to the chair.

The following members of the Board of Studies in Chemistry were present for the meeting.

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|---------------------------|---------------|
| 1. Dr. Roopa S. Belurkar  | - Chairperson |
| 2. Dr. J. B. Fernandes    | -Member       |
| 3. Dr. J. S. Budkuley     | -Member       |
| 4. Dr. S. P. Kamat        | - Member      |
| 5. Shri. N. G. Rivonkar   | -Member       |
| 6. Dr. Sachin B. Kakodkar | - Member      |

- |                              |                   |
|------------------------------|-------------------|
| 7. Dr. Manjita R. Porob      | -Member           |
| 8. Mrs. Manjita R. Porob     | - Member          |
| 9. Mrs. Padmini C. Panjkar   | - Member          |
| 10. Dr. Lactina R. Gonsalves | -Member Secretary |
| 11. Dr. Rohan K. Kunkalekar  | -Member           |
| 12. Dr. Sandesh T. Bugde     | -Member           |

Dr. Shirishbhai Patel, Dr. A. K. Srivastava and Dr. J. Seetharamappa conveyed their inability to attend the meeting.

Dr. G. K. Naik remained absent for the BOS meeting despite being present on the campus, thereby deferring from important academic duties as a member of BOS.



Dr. Roopa S. Belurkar  
Chairperson  
Board of Studies

Date: 11 /01/2017