



Ramakrishna Mission Vidyamandira

P.O. BelurMath, Dist. Howrah - 711202, West Bengal

A Residential Autonomous College affiliated to Calcutta University
College with Potential for Excellence * Re-accredited by NAAC with 'A'
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BOS/CHE/Notice No. 7

Dated 26/6/2015

Seventh meeting of the Board of Studies

The seventh meeting of the Board of Studies in **Chemistry** will be held on **25th July 2015, Saturday at 2.00 pm** at the Asha Jyoti Hall of our college to discuss the following agenda:

- Confirmation of the proceedings of the last meeting held in 3.7.2014
- Modification of syllabus
- Research project of 6 Semester Honours students
- Miscellaneous

All members are earnestly requested to attend the meeting.

With regards,

Yours sincerely,

Atanu Bhattacharyya
(Atanu Bhattacharyya)
Head of the Department

Shastrajnananda
(Swami Shastrajnananda)
Principal



B.O.S meeting (7)

25.7.15

Members Present:

1. Muel (D. Mal)
2. ~~Bhattacharya~~ (S. Bhattacharya)
3. Kaliprasanna Dhan
4. K. C. Ghosh
5. Sekhar Guin
6. Syed Shaked Ring
7. ~~S. M. V.~~
8. Sumit K. Karak.
9. Satya brata Ray
10. Atanu Bhattacharya
11. Sebasie Jome.
12. Asoke Kumar Chattopadhyay
- 13.
- 14.
- 15.
- 16.
- 17.
- 18.

Synopsis of BOS meeting

Date: 25.07.2015

Agenda A

Confirmation of the proceedings of the last meeting held on 03.07.2014

Changes in the practical syllabus that were proposed in the last BOS meeting were fully implemented. Kipp's apparatus is no longer in use in the inorganic qualitative analysis. The replacement thioacetamide is doing a perfect job.

Agenda B

Modification of the syllabus

The proposal for subject wise change in the practical syllabus was as follows:

Inorganic Chemistry Practical (6SH)

Addition:

- Spectrophotometric estimation of i) Fe^{2+} , ii) Cr^{6+} , iii) Mn^{2+}
- 6SH Analytical (practical) Column Chromatography

Elimination:

- Estimation of Fe^{3+} and Ca^{2+} in a mixture via permanganometry
- Estimation of Fe^{3+} and $\text{Mn}^{2+/4+}$ in a mixture via dichrometry

Physical Chemistry Practical

- Conductometric titration of single and mixed acid was introduced in 4SH dropping the same in 5SH
- Determination of pH of an unknown solution via color matching was introduced in 4SH dropping the same in 5SH
- Determination of relative surface tension and viscosity of unknown liquid was introduced in 5SH dropping the same in 4SH.
- Determination of critical micelle concentration (CMC) was introduced in 5SH.

Organic Chemistry Theory

- The symmetry element C_n and S_n was added in 2SG syllabus in stereochemistry section.
- Prevost equation was introduced in 2SH syllabus

- It was recommended to introduce some real life examples in 5SH-Unit-II Organic Synthesis, such as Caffeine, Vivalan, Nicotine, Guanine, Cytosine and an intermediate in Stork's synthesis of Aspidosperma alkaloid

Resolved that the following revisions be made in the Chemistry (H) Syllabus from the session July, 2015

Programme name	Programme code	Course Name	Course Code	Revision done	% of Revision	Year of Implementation
B. Sc CHEMISTRY HONOURS	CEMA	Organic Chemistry	CEMA02T	Addition reaction in double bond - Prevost reaction. Unit - I (Organic Chemistry Group A)	20	2015
B. Sc CHEMISTRY HONOURS	CEMA	Organic Chemistry	CEMA06T	Real life examples: Caffeine, Vivalan etc. Unit II (Organic Chemistry)	26	2015
B. Sc CHEMISTRY HONOURS	CEMA	Physical Chemistry Practical	CEMA04P	Two new experiments	28.5	2015
B. Sc CHEMISTRY HONOURS	CEMA	Physical Chemistry Practical	CEMA05P	Two new experiments	25	2015
B. Sc CHEMISTRY GENERAL	CEMG	Organic Chemistry	CEMG02T	Elements of symmetry introduced	30	2015

Agenda C

Research project in 6SH student

The department will take the initiative for lab visit to industrial unit like Chem Biotech in Kolkata.

Atanu Bhattacharyya

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Department of Chemistry

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BOS/CHE/Notice No. 8

Dated 31/05/2016

Eighth meeting of the Board of Studies

The eighth meeting of the Board of Studies in **Chemistry** will be held on **2nd July 2016, Saturday at 2.00 pm** at the Asha Jyoti Hall of our college to discuss the following agenda:

- (a) Confirmation of the proceedings of the last meeting held in 25.7.2015
- (b) Modification of syllabus
- (c) Miscellaneous

All members are earnestly requested to attend the meeting.

With regards,

Yours sincerely,

Atanu Bhattacharyya
(Atanu Bhattacharyya)
Head of the Department

Swami Shastrajnananda
(Swami Shastrajnananda)
Principal

Date: 2.7.2016

Board of studies meeting

Members present:

- 1)
- 2) Atanu Bhattacharya
- 3) Sumit K. Karak
- 4) Allal
- 5) Kalpanasuna Dhan.
- 6) Sampat
- 7) Syed Shahed Riaz
- 8) Debasis Jena
- 9) Ankeban Chatteropadhyay
- 10) Sekhar Ghin
- 11) M. G. Goswami
- 12) S. Ganguly
- 13)
- 14)
- 15)

Agenda: (a) Confirmed without any modification

(Syllabus prepared by SSR: I A, II A, III A & general
DJ:
S.G.)

Synopsis of BOS meeting

Date: 02.07.2016

Agenda A

Confirmation of the proceedings of the last meeting held on 25.07.2015

Changes in the practical syllabus that were proposed in the last BOS meeting were fully implemented. Spectrophotometric estimation of various metal ions has worked out fine. Determination of critical micelle concentration for SDS as the surfactant via conductometric route turned out to be very close the reported value in the literature.

Agenda B

Modification of the syllabus

On the basis of feedback from students some changes have been made in practical syllabus. Inorganic qualitative analysis, which used to be taught in semester I and II, will now be taught in semester II and III while organic qualitative analysis practical has been moved to semester I. Given the elaborative nature of inorganic qualitative analysis and the limited class hours in one semester to cover the full range, there won't be any practical exam in one semester; instead an exam covering the topics taught in semester II and III will be taken in semester III which will be of 50 marks (25 marks for each semester). Marks allotted for organic qualitative analysis practical will remain 25 and be taken on semester I.

On the basis of feedback from the students and suggestions from our alumni to make our syllabus more relevant to real life, some changes have been made in organic chemistry. Retrosynthesis and subsequent total synthesis of some natural products are introduced which include, Caffeine – a psychoactive substance present in coffee beans and tea leaves, Vivalan – an antidepressant drug, nicotine – the addictive stimulant present in tobacco and the nucleobases guanine and cytosine present in DNA and RNA and carries the genetic information.

Resolved that the following new course be introduced in the Chemistry (H) Syllabus from the session July, 2016

Program name	Program code	Name of the new course introduced	Course code	Year of introduction
B. Sc CHEMISTRY HONOURS	CEMA	Organic Chemistry Practical -I	CEMA01P	2016
B. Sc CHEMISTRY HONOURS	CEMA	Inorganic Chemistry Practical-III	CEMA03P	2016

Agenda C

Proposed changes

Some changes have been proposed along the line of marks distribution of physical and analytical chemistry practical in semester VI. For analytical chemistry, the marks allotted 15 appears to be meager, which can be increased by 5 by reducing the same in physical chemistry practical leaving the latter with 60 marks.

For the student enrichment program, two special topics, supramolecular chemistry and the chemistry of explosives, were proposed to be introduced. It is also suggested that introduction of polymer chemistry could also be beneficial for the students.

Atanu Bhattacharya