



# ST. XAVIER'S COLLEGE

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❖ **Minutes and/or Resolutions of Board of Studies meetings held in the last five years for:**

- **Department of Chemistry**

Programme/s: 1. BSc Chemistry

- **Summary**

Academic Year	Dates of BoS meetings	Revision in syllabus
2016 - 2017	30-09-2016	✓
2015 - 2016	24-09-2015	✓
	17-03-2016	✓
2014-2015	21-11-2014	✓



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**2016-2017**





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2016 - 2017

Meeting held on Friday,  
30 September 2016 at 2.00 p.m.  
in the Principal's Board Room

1. Dr. Freddy Havaldar
2. Prof. A. V. Karrik
3. Dr. Gulshan Shaikh *gshk*
4. Dr. (Fr.) Roy Pereira *On Leave*
5. Prof. (Ms.) N. Navalkar *navalkar*
6. Dr. I. Mendes *I. Mendes*
7. Dr. B. K. N. Singh *B. K. N. Singh*
8. Dr. Nirmal Koshli *Koshli*
9. Dr. Boni Framroze *Boni Framroze*
10. Mr. Aditya Chalishazgar *Aditya Chalishazgar*
11. Ms. Shirley Machado *Shirley*



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Minutes of the meeting of the subject board in Chemistry, held on Friday 30<sup>th</sup> September 2016 at 02:00 pm in the principals Board Room.

Members present : Prof. Dr. F. Havalda, Dr. G. Shaikh, Prof. (Ms) N. Navalkar, Dr. I. Mendes, Dr. B. K. N. Singh, Dr. Nirmal Koshli, Dr. Bomi Khamroze, Mr. Aditya Chalisekar, Ms. Shirley Machado.

The head of the Department - Dr. Freddy Havalda welcomed the BOS members. He read the minutes of the meeting held on 17<sup>th</sup> March 2016, which was approved and passed.

Dr. (Mr.) Ashitosh Mishra gave a powerpoint presentation on course SCHE 6:01 titled "General Physical Chemistry". He further read out and explained the four (4) units involved in the course, as well as gave the question paper template for CIA and ESE.

One of the members raised a question so as to what is going to be the introductory lec for "colloids". The professor said that phase rule, Brownian motion & Tyndall effect were all included in the introductory lecture.

Query was also asked so as to what will be taught in Biomass energy topic, the professor said that anaerobic fermentation and aerobic digestion methods would be done in detail.

Prof. Ashitosh also read out the practicals syllabi, and one suggestion from the BOS said that in partition coefficient experiment  $CCl_4$  should be replaced as it is toxic.

*Ashitosh*

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Prof Geeta Kation gave a powerpoint presentation on course SCHE-6.02 titled "solid state, solution and medicinal chemistry" as well explained the units in the course and gave the question paper template of CIA & ESE.

Query was asked as to which method was included for preparation of nanomaterials in unit 4. Prof said that industrial as well as laboratory methods were included for nanomaterial synthesis. Practical course was also read by Prof. Geeta. Further the student representative suggested that  $\text{CuCl}_2 \cdot 2\text{DMSO}$  experiment was already done in 3<sup>rd</sup> semester. So elimination of the experiment was suggested. Also one of the BOS member suggested that characterization should be included along with preparation experiments.

Prof (Dr) Freddy Havaladar gave a powerpoint presentation on course SCHE-6.03 titled "spectrometric identification & synthetic chemistry" and explained the question paper template. One of the question raised by BOS member was whether detector was included in Mass spectroscopy, student representatives said that detectors are covered in 5.01 physical chemistry syllabi. One of the BOS member suggested that reagents/catalyst should be done before hand in comparison to retrosynthesis and also retrosynthesis can be made more effective by using softwares.



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Practical syllabi was also read by the Prof. One of the BOS member suggested that "Ring Synthesis" should be added in organic preparations but the prof said that due to time constraints it would be difficult to do so.

Prof. Dr. Prathad Rege presented the powerpoint presentation for the course S.CHE.6.04 titled "Instrumental methods of Analysis" and explained the question paper template for CIA & ESE. Excel or software should be used to make instrumentation more effective in teaching said one of the member. practical syllabi was read out.

Prof. Dr. F. Havaladar read out the powerpoint presentation for course S.CHE.6.AC titled "Drugs & colour chemistry". In unit I, titled "drug discovery, design & development" natural dyes should be given more preference said one of the member.

Also "2" Resolutions were signed in the meeting. The 1st resolution said that CIA-I would be for 15 marks & CIA-II of 25 marks a total of 40 marks (CIA) & 60 marks end semester. There would be no criteria to pass individually in CIA's or end semester but a total of 40 marks is required to clear/pass the course.



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The 2<sup>nd</sup> Resolution was that no additional exams or retest for CIA's will be conducted. Instead a 100 marks paper for those not having a total of 40 marks in that course.

The syllabi of the 6<sup>th</sup> semester & 2 Resolutions were passed in the meeting without any objection.

The meeting ended with a vote of thanks by the Head of the department.

Dr. Freddy Havaldar

Dr. Gulshan Shaikh

Prof. (Ms) N. Navelkar

Dr. I. Mendes

Dr. B.K.N. Singh

Dr. Nirmal Koshti

Dr. Bomi Framroze

Mr. Aditya Chalisgajal

Ms. Shirley Machado

*Shirley*



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**2015-2016**

Dates of BoS

1. 24-09-2015

2. 17-03-2016

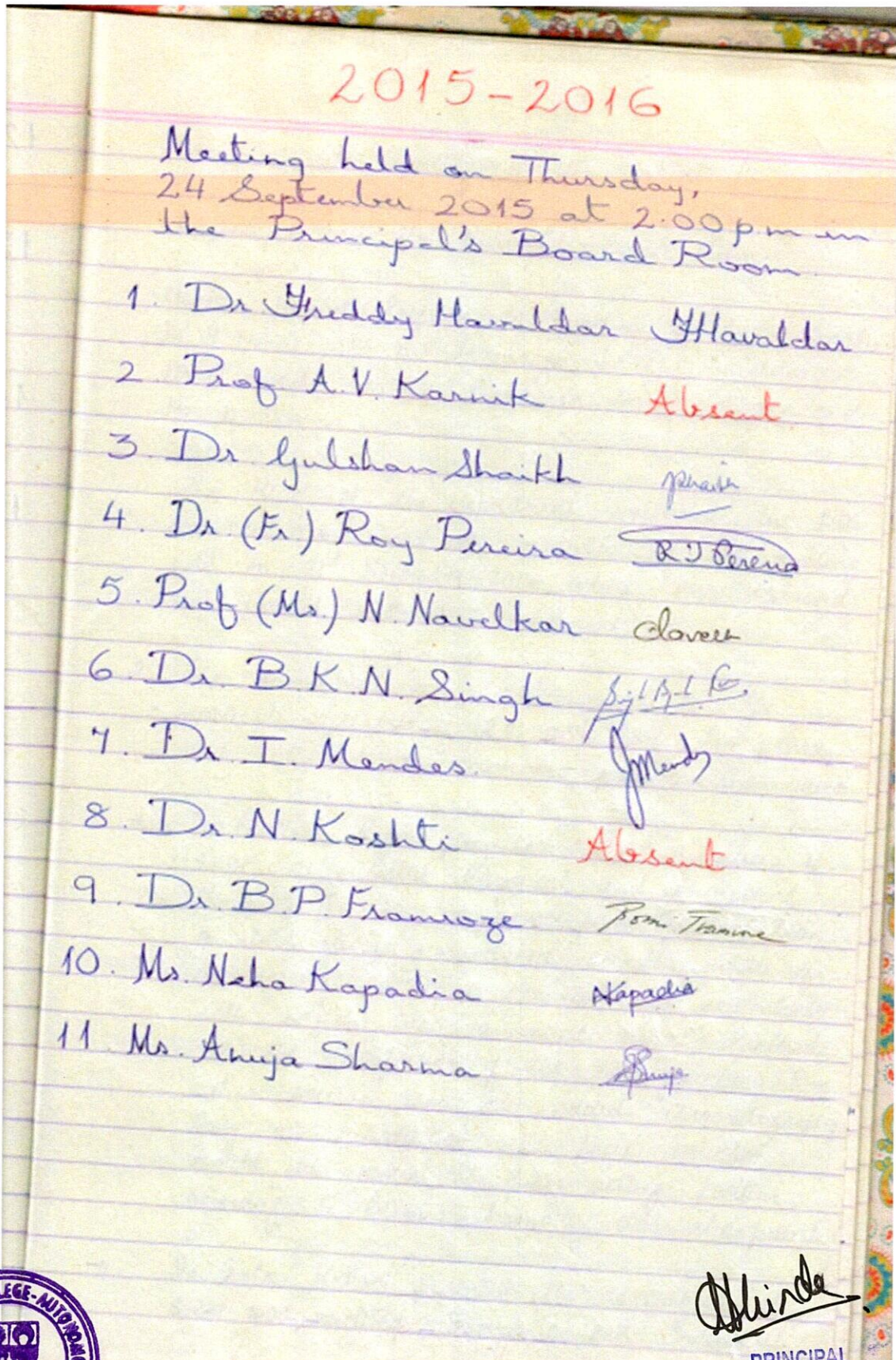
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Minutes of the meeting of the Subject Board in Chemistry, held on Thursday, 24<sup>th</sup> September 2015, at 2:00 p.m. in the Principal's Board Room.

Members present: Prof (Ms.) N. Navalkar, Dr. B.K.N. Singh, Dr. J. Mendes, Dr. B.P. Framroze, Dr. F.H. Mavalakar, Dr. G. Shaikh, Dr. (Fr.) R. Pereira, Ms. N. Kapadia and Ms. A. Sharma

1. The Head of the department welcomed the BOS members and read the minutes of the meeting held on 21<sup>st</sup> November 2014, which was approved and passed, with an amendment.
2. The amendment was with respect to the practical syllabus of 2:01 and 2:02. This was read out and the members passed the same.
3. Dr. Pralhad Raje presented the syllabus of S.CHE 4:01, entitled, Physical and Analytical Chemistry II, in a power point presentation. A clarification was asked on the depth of coverage of the topic on 'electrolyte concentration cell' which was answered by Dr. Pralhad to the satisfaction of the BOS members. In this course was also added "Chromatography". Only an introduction and basic concepts would be covered. The paper setting pattern, according to bloom's Taxonomy was also presented.
4. Dr. Greta Kotion presented the syllabus of S.CHE 4:02, entitled, Inorganic and Industrial



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Chemistry II", in a power point presentation. She highlighted some of the topics that were included in this syllabus. The members were satisfied with the content with a few suggestions. The members felt that some concepts of metallurgy could be considered and the behaviour of chemicals in the environment should be more specific. The paper setting pattern was also mentioned in the presentation.

5. Dr Gulshan Shaikh, presented the syllabus of S.CHE 403, entitled "Organic and Industrial Chemistry II", in a power point presentation. The addition of heterocyclic chemistry was welcomed by the BOS members. Dr. BKN Singh suggested that 'Retrosynthesis' be introduced as a part of the 'Green Chemistry' module.

6. The practical syllabus, S.CHE 41A was then discussed. A major change was brought in the Organic Chemistry practicals, where the students would be doing "Organic Spelling" for the first time. The practicals of Physical and Inorganic Chemistry was not revised from the earlier course. The assessment of practicals was discussed at length. The BOS members were appreciative of the Group Oral Presentation of the Physical Chemistry for CIA which gave the students a better background of the theory involved. A suggestion was to have 'surprise' practical exams. Another suggestion was to include or introduce a few

*Hind*



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experiments on Green Chemistry, maybe in the  
5<sup>th</sup> or 6<sup>th</sup> semesters.

7. Prof. (Ms.) N. Navelkar mentioned briefly a few  
activities that have been held in her college  
which the students enjoyed, viz. making posters  
as part of their assessment.

8. The meeting ended at 4:00 pm officially with  
a vote of thanks by the Head of the department.

Dr. Freddy H. Havaladar F. H. Havaladar

Prof. A. V. Karnik

Dr. Gulshan Shaikh

Dr. (Fr.) Roy Pereira

Prof. (Ms.) Nutan Navelkar

Dr. Brijesh K. N. Singh

Dr. Ignat Mendes

Dr. Nirmal Koshti

Dr. Boni P. Framroze

Ms. Neha Kapadia

Ms. Anuja Sharma

*penal*  
*R. J. Pereira*

*Naval*

*Brijesh K. N. Singh*

*Ignat Mendes*

*Boni P. Framroze*

*Napadia*



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Meeting held on Thursday,  
17 March 2016 at 2:30 p.m. in  
the Principal's Board Room.

1. Dr. Freddy H. Havaladar *F.H. Havaladar*
2. Prof. A. V. Karnik
3. Dr. (Ms.) Gulshan Shaikh *gshai*
4. Dr. (Fr.) Roy Pereira *RJPereira*
5. Prof. (Ms.) Nutan Navelkar *navu*
6. Dr. Brijesh K.N. Singh *B.K.S.*
7. Dr. Ignat Mendes *IM*
8. Dr. Nirmal Koshti *NK*
9. Dr. Bomi P. Framroze *B.P. Framroze*
10. Ms. Neha Kapadia
11. Ms. Anuja Sharma



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Minutes of the meeting of the Subject Board in Chemistry, held on Thursday 17<sup>th</sup> March 2016 at 2:30 pm in the Board Room.

Members present: Prof (Mrs) N Navelkar, Dr G. Singh, Dr. J Mendes, Dr B. Framroze, Dr. M Koshli, Prof. Dr. F. Havaldar, Dr G Shaikh, Dr (Fr) R Pereira.

The Head of the Department, Dr Havaldar welcomed the BOS members. He read the minutes of the meeting held on 24<sup>th</sup> September 2015, which was approved and passed, with an amendment.

The amendment was with respect to the Theory syllabus of 3:02 and 4:02. This was read out and the members passed the same.

Prof. Marayban Kotwal presented the syllabus of SCHE 5:01, titled, Spectroscopy, Molecular and Nuclear Dynamics, in a power point presentation. The syllabus was well received by the members. The paper setting pattern according to Bloom's Taxonomy was also mentioned.

Dr. Greta Kotian presented the syllabus of SCHE 5:02. The title of the course is "Chemical Bonding and Coordination Chemistry." In the power point presentation, Dr. Greta highlighted the content with the changes made and also the template of the question paper on the basis of Bloom's Taxonomy. The content was appreciated by the members.



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Dr. Gulshan Shaikh presented SCHE 5.03, titled 'Stereochemistry and Natural Products'. The content included an introduction to Pericyclic reactions which was welcomed by the members. The content of Natural Products was also reorganized. The presentation ended with the template of the End Semester examination.

Dr. Prathal Rege presented SCHE 5.04, titled 'General, Analytical and Pharmaceutical Chemistry'. The content was revised from the earlier syllabus and was received well by the members. The assessment grid for the oral presentation of CIA II was presented along with the end semester examination template based on Bloom's Taxonomy.

The syllabus of SCHE 5.PR was jointly presented by Dr. Prathal, Dr. Gaur and Dr. Gulshan. A few demonstration experiments were added in Green Chemistry.

Dr. Navaldar presented the Modified Component syllabus. He explained the need of changing the course to "Drugs and Color Chemistry" - SCHE 5AC and presented the syllabus in a power point presentation. The syllabus involved 2 units of Drugs and 2 units of Color Chemistry which was discussed and accepted. The end semester examination question paper template was also presented. Dr. Navaldar also presented the SCHE 5 AL PR syllabus, including the practical examination pattern.



*D. Lunde*

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The members were satisfied with the content of the 5<sup>th</sup> semester courses. A strong suggestion was to incorporate more experiments on Green Chemistry, maybe as demonstrations, to make students more aware of the current trends.

The meeting ended at 4:00 pm. officially with a vote of thanks by the Head of the department.

Dr. Freddy Havaldar

Freddy Havaldar

Prof. A. V. Kamik

Dr. Gulshan Shaikh

Shaikh

Dr. (Jr) Roy Pereira

Prof. (Ms) Nutan Navalkar

Dr. Bijesh K N Singh

Dr. Ignatius Mendes

Dr. Nirmal Koshte

Dr. Bonni Framroze

Clareen  
S. I. B. I. C.  
Mendy  
Koshte  
Bonni Framroze



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**2014-2015**





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2014-15

Meeting held on Friday, 21 November  
2014 at 2:00 p.m. in the  
Principal's Board Room.

1. Dr. Freddy H. Havaldar *F. Havaldar*
2. Prof. A. V. Karnik *Absent*
3. Dr. (Ms.) D. Coutinho *D. Coutinho*
4. Dr. (Ms.) G. Shaikh *G. Shaikh*
5. Prof. (Ms.) N. Navelkar *N. Navelkar*
6. Dr. B. K. N. Singh *B. K. N. Singh*
7. Dr. I. Mendes *Absent*
8. Dr. N. Koshti *N. Koshti*
9. Dr. B. P. Gramroze *B. P. Gramroze*
10. Ms. Aditi Karmarkar *A. Karmarkar*
11. Mr. Prasenjit Srivastava *P. Srivastava*



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Minutes of the meeting of the Subject Board  
in Chemistry held on 21 November 2014 at  
2.30 p.m. in the Principal's Board Room.

Members Present: Dr. Freddy Havelkar,  
Dr. (Mrs.) D. Coutinho, Dr. (Mrs.) J. Shaikh,  
Prof. (Ms.) N. Navalkar, Dr. B. K. N. Singh,  
Dr. N. Koshti, Dr. B. P. Framroze, Ms. Aditi  
Karmarkar and Mr. Prasenjit Srivastava.

1. The Head of Department welcomed the BOS members and read the minutes of the meeting held on 14 March 2014 which were passed without any changes.
2. This meeting was convened to revise the theory and practical syllabus of Courses S.CHE. 2.01, 2.02, 3.01, 3.02 and 3.03.
3. Dr. (Mrs) Ashma Aggarwal gave a power point presentation on Course S.CHE. 2.01 entitled 'Concepts of Physical and Analytical Chemistry II'. Unit I in this course deals with thermodynamical concepts, Unit II deals with Spectroscopy and Unit III with Analytical Chemistry. She explained the learning Objectives focussed on understanding the basic concepts and also gave the template of the Question papers based on



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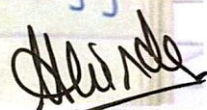
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'Blooms Taxonomy' for the End Semester Exams.

4. Dr. (Mrs.) Gulshan Shaikh made a power point presentation on Course S.CHE. 2.02 entitled 'Fundamentals of Inorganic and Organic Chemistry II'. Unit I deals with p-block elements, Unit II deals with Stereochemistry and hydrocarbon chemistry and Unit III with functional group chemistry. Here again paper setting pattern at the ESE was discussed following 'Blooms Taxonomy'.
5. Revised Syllabus of Course S.CHE. 2.PR was also discussed.
6. Dr. Pralhad Rege gave a power point presentation of the Course S.CHE. 3.01. The title of the Course is 'Physical and Analytical Chemistry I'. The three units and the paper setting pattern was explained to the BOS members.
7. Dr. (Mrs.) Geeta Kotian discussed the Course S.CHE. 3.02 titled 'Inorganic and Industrial Chemistry I'. Prof. (Mrs) N. Navelkar suggested that the basic <sup>physico-chemical</sup> principles of metallurgy i.e. hydrometallurgy, pyrometallurgy



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and electrometallurgy should be taught at the S.Y. level.

This has been taken care of in Course S.CHE. 4.02 by Dr. Yeeta.

8. Dr. (Mrs.) Gulshan Shaikh presented Course S.CHE. 3.03 titled 'Organic and Industrial Chemistry I'. The Board suggested that since IUPAC Nomenclature in aliphatic systems is taught in Semester I, IUPAC Nomenclature in aromatic systems be dealt with in Semester III i.e. Course S.CHE 3.03 in Unit I (1.3.1) in benzenoid and non-benzenoid compounds and ions including nomenclature of aromatic systems.

9. The Practical Course S.CHE.3PR was discussed. The Board suggested that in qualitative analysis, interfering radicals be included. Under Inorganic Preparations, a minor change in sequence was suggested - 1<sup>st</sup> Double salt (Mohr's salt), 2<sup>nd</sup> and 3<sup>rd</sup> preps remain as they are and the 4<sup>th</sup> preparation should be Synthesis of



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$CuCl_2 \cdot 2DMSO$ . The Board also suggested the inclusion of  $NO_2^-$  detection in qualitative analysis. Organic Spotting will now be taught in Sem. 4. In Sem. 3, only organic preps and organic estimations have been included. Crystallization of the crude product synthesized, is brought in Sem. 3.

## 10. Applied Component: Neuroscience Course S.CHE.5AC

A Reference book has been included and examination pattern has been introduced in the Syllabus. The BOS members suggested that Unit IV should be more neurochemical. The Neuroscience practicals are also more psychological. The Board suggested that the practicals should be more neuroscience-related. A suggestion of using neuroscience kits <sup>for practicals</sup> was made by Dr. Boni Franroze.

11. The Subject Experts and Experts from Industry were asked to <sup>evaluate and</sup> give their feedback on the <sup>presentation of the</sup> revised syllabus by the Head of Dept. which was promptly accepted.



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12. The Experts suggested an innovative approach towards Neuroscience practicals.
13. Dr. Gulshan then spoke about the one-day RSC symposium to be held at St. Xavier's on Dec. 5, 2014.
14. A discussion about PG students' activities in respective Colleges ensued.
15. The meeting ended at 4.05 p.m. with signing of the revised syllabi and a vote of thanks to the Subject Board Members by the Head of Department.

Dr. Freddy Havaldar	Havaldar
Prof. A. V. Karulk	Absent
Dr. Gulshan Shaikh	present
Dr. (Fr) Roy Pereira	RJPereira
Prof. Nutan Navalkar	Navalkar
Dr. Brijesh K.N. Singh	Brijesh
Dr. Ignat Mendes	Mendes
Dr. Boni P. Framroze	Boni Framroze

