

**Devrukh Shikshan Prasarak Mandal's  
Nya. Tatyasaheb Athalye Arts, Ved. S.R. Sapre Commerce and  
Vid. Dadasaheb Pitre Science College  
(Autonomous)**

Devrukh, Dist: Ratnagiri- 415 804, Maharashtra

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The online meeting of the Board of Studies in Chemistry was held on May 25, 2021 at 10.30 am through Google Meet. The meeting followed with the following concerns on the agenda.

**Agenda**

1. Welcome of all members of Board of Studies
2. Finalization of previous BOS meeting
3. Review of the F.Y. and S.Y. B.Sc. Chemistry syllabus
4. Framing of the syllabus for T.Y. B.Sc. Chemistry
5. Academic planning for upcoming year 2021-22
6. Any other with permission of chairman

The following members were present for the meeting.

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|-----|--------------------------|--|
| 1.  | Dr. S. T. Sankpal        | Chairman, BoS                                  |
| 2.  | Prof. Dr. M. B. Deshmukh | (Invited Subject Expert)                       |
| 2.  | Prin. Dr. R. G. Deshmukh | (VC Nominee: Member BoS)                       |
| 3.  | Dr. A. P. Chavan         | (Subject Expert: other than parent University) |
| 4.  | Dr. G. B. Sathe          | (Member of the BoS)                            |
| 5.  | Dr. A. S. Varale         | (Member of the BoS)                            |
| 7.  | Dr. H. V. Chavan         | (Member of the BoS)                            |
| 8.  | Mr. A. V. Devale         | (Member of the BoS)                            |
| 9.  | Miss. D. D. Chaougule    | (Member of the BoS)                            |
| 10. | Miss. P. S. Shinde       | (Member of the BoS)                            |
| 11. | Miss. Hemangi Agare      | (Member of the BoS)                            |
| 12. | Miss. A. D. Shimpukade   | (Member of the BoS)                            |

## **Agenda:**

### **Item No. 1: To welcome all the members of BoS**

Dr. Sagar Tanaii Sankpal, Chairman of the BoS, heartily welcomed all the members present for the meeting. He further commenced the meeting with a thorough overview on the agenda.

Given tribute to Late Prin. R. G. Deshmukh, VC Nominee, BoS

### **Item No. 2: Finalization of previous BOS meeting**

Dr. S. T. Sankpal taken a review of minutes of previous BoS meeting and all minutes are accepted and finalized unanimously.

### **Item No. 3: Review of the F.Y. and S.Y. B.Sc. Chemistry syllabus**

The F.Y.B.Sc. and S.Y.B.Sc. syllabus was revised in 2019 and 2020 respectively. Dr. S. T. Sankpal overviewed the revised syllabus. Further he expressed that the revised syllabus is apt with respect to the current industrial and academic requirements that will help to improve the academic progress of students. No further changes are suggested in the syllabus by the committee.

### **Item No. 4: Framing of the syllabus for T.Y. B.Sc. Chemistry**

In the beginning Dr. S. T. Sankpal overviewed the existing syllabus of TYBSc Chemistry. He added that the responsibility of revision of syllabus was allotted to the concern teachers as given below:

Paper I-Physical Chemistry: Dr. A. S. Varale

Paper II-Inorganic Chemistry: Mr. S. S. Daphale

Paper III-Organic Chemistry: Dr. S. T. Sankpal

Paper IV-Analytical Chemistry: Dr. H. V. Chavan

Paper V-Drugs and Dyestuff Chemistry: Dr. H. V. Chavan

Dr. Amit Varale overviewed the old syllabus of TYBSc Paper-I Physical Chemistry and highlighted the changes proposed.

Dr. Abhijeet Chavan suggested that the point polarization of bond and molecular structure should be retained. He also suggested shortening the syllabus by excluding some less useful topics or keeping some topics for self-study as it is difficult to teach the present syllabus through online mode. By continuing the discussion Prof. M.B. Deshmukh, advised to add

numericals based on Rotational spectroscopy in paper I and Dr. Amit Varale welcomed the revisions suggested.

Further, Mr. Shubham Daphale overviewed the revisions proposed in the syllabus of TYBSc paper II Inorganic Chemistry. He has given justifications why some topics are introduced, some excluded and some reshuffled.

Dr. Abhijeet Chavan has added that the syllabus proposed is well balanced and thus no major changes are required. Dr. Parab, an Industry expert, continued the discussion and suggested to add some practicals based on purification and analysis of samples by using resins in the revised syllabus. Dr. Hemant Chavan further added that the practicals such as separation of Zn and Mg ions based on ion exchange resins are already included in the syllabus of Paper-IV.

Dr. S.T. Sankpal overviewed the revised syllabus of TYBSc Paper III, Organic Chemistry. He also added that we maintained the flow in syllabus from FYBSc to TYBSc as per the difficulty level. Extending the discussions further Prof. Deshmukh suggested to add stereochemistry of allenes in the topic of stereochemistry. In addition, Dr. A. P. Chavan suggested retaining only Electrocyclic and Cycloaddition reactions and removing or adding sigmatropic and cheletropic reactions to higher level in topic pericyclic reactions.

Dr. A. P. Chavan further advised to combine the stereochemistry topics from Sem V and Sem VI. In this regards, Dr. Sankpal justified that as entire topics if combined together it will become heavy for students to digest. Dr. M. B Deshmukh further suggested to add specific Names of synthesis for natural products and instrumentation part of mass spectrometry. Dr. A. Chavan continued to add one or two examples based on mono halogen and nitrogen containing compounds in mass spectroscopy.

Dr. G.B. Sathe, Member of BoS, also recommended to add some applications of UV spectroscopy and classification of Natural products in the revised syllabus. Dr. Parab proposed to incorporate some practicals based on high precision and advanced equipment's and heavy metal analysis-based practicals. Extending this discussion Dr. A. P. Chavan replied that, due to problems associated with the disposal of heavy metal solutions we need to avoid such experiments.

Dr. H. V. Chavan overviewed the proposed changes in the syllabus of Paper IV Analytical Chemistry. Dr. A. Chavan and Dr. Parab expressed that the syllabus of paper IV is too heavy

and difficult to complete in the stipulated lecture framework thus they focused on the shortening of the syllabus of paper IV.

Dr. G. B Sathe suggested shifting the topic solvent extraction to semester VI from sem V will help to balance the assigned lectures. By extending the discussions further Dr. A.P. Chavan also suggested to shorten the syllabus of electroanalytical techniques and focus on adding numerical to some applied topics.

Resolution 1: after thorough discussions it is unanimously resolved that all the constructive changes which are made in the syllabus are accepted.

**Proposed by:**

Dr. S.T. Sankpal

Dr. A.S. Varale

Dr. H.V. Chavan

Mr. S. S. Daphale

**Seconded by:**

Dr. A. P. Chavan

**Item No. 5: Academic planning for upcoming year 2021-22**

Dr. Sankpal put before the committee the yearly planning of the department which include timely completion of syllabus as per the time table, organization of seminars, workshops and expert lectures for students through the online mode. The planning proposed is unanimously accepted for the current academic year.

**Item No. 6: Any other with permission of chairman**

At the end, Dr. Sankpal thanked all the members of BoS for attending the meeting and giving valuable inputs to the revised syllabus of TYBSc.

**Dr. S. T. Sankpal**

Chairman, BoS in Chemistry