

**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 July 09, 2020 at 11.30 am through ZOOM application. The meeting followed with the following concerns on the agenda.

**Agenda of the meeting:-**

1. To welcome all the members of BoS
2. Finalization of Minutes of the first meeting held on 25th April, 2019.
3. Review of the first term academic progress of the students.
4. Framing of the syllabus for second year B.Sc., to be implemented w.e.f. 2020-21 with the learning outcomes.
5. To discuss and decide upon use of rubrics for internal assessment.
6. Skill based certificate courses for UG and PG programmes to be introduced.
7. Any other with permission of the 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.  | Mr. Prabhakar Parab      | (Industrial Expert)                            |
| 5.  | Dr. Mahesh Burshe        | (Industrial Expert)                            |
| 6.  | Dr. G. B. Sathe          | (Member of the BoS)                            |
| 7.  | Dr. A. S. Varale         | (Member of the BoS)                            |
| 8.  | Dr. H. V. Chavan         | (Member of the BoS)                            |
| 9.  | Mr. A. V. Devale         | (Member of the BoS)                            |
| 10. | Miss. D. D. Chaougule    | (Member of the BoS)                            |
| 11. | Miss. P. S. Shinde       | (Member of the BoS)                            |

12. Miss. H. S. Agare (Member of the BoS)
13. Mr. S.. Daphale (Member of the BoS)
14. Miss. Shivaneer Patil (Alumni of the Department)

### **Minutes of meeting:-**

#### **Item No. 1.1 To welcome all the members of BoS**

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

#### **Item No. 1.2 Finalization of Minutes of the first meeting held on 25th April, 2019.**

The minutes of the first meeting held on 25<sup>th</sup> April 2019 are finalized and approved unanimously by all members of BoS with minor corrections.

#### **Item No. 1.3 Review of the first term academic progress of students**

Dr. Sagar Tanaji Sankpal, Chairman of the BoS, highlighted the progress of students before the members of BoS of the first academic year. He added that the revision in the First year syllabus and various activities conducted last year, help well to improved the academic progress of students.

#### **Item No. 1.4 Framing of the syllabus for second year B.Sc., to be implemented w.e.f. 2020-21 with the learning outcomes**

Dr. Amit Varale overviewed the existing syllabus of S.Y.B.Sc. Paper-I. He expressed his views by saying that there is no need of foremost changes in the existing syllabus as it is well structured and in line with the previous F.Y.B.Sc syllabus. He was added that few topics *viz.* Calculation of equilibrium constant from EMF data from unit-I of semester-IV and Mechanism of Claisen condensation and Dieckmann condensation from unit-III of semester-IV are to be removed to minimize the quantum of the units.

Dr. Sagar Sankpal overviewed the existing syllabus of S.Y. B.Sc. Paper-II. He emphasized on the changes be taken place in the current syllabus as per the requirement of current times and to shorten the content of some overweight topics. He suggested that some important topics related with theory *viz.* Concept of entropy: Introduction,

Definition, Mathematical expression, Physical significance of entropy in unit-I of semester-III should be introduced in the new syllabus and some advanced topics such as Principle of steam distillation (unit-I, Sem-III) is to be kept for Self Learning and some less significant topics like Synthesis of ammonia by Bosch – Haber process (Unit-II, Sem-III), Hoffmann bromamide reaction, Hofmann's exhaustive methylation (HEM), Hoffmann-elimination reaction, Acidity and basicity of pyrrole, comparison of basicity of pyrrole and pyrrolidine (Unit-III, Sem-IV) to be excluded from the old syllabus.

Dr. Hemant Chavan overviewed the present syllabus of S.Y.B.Sc. Paper-III. He articulated his views by saying that some of the topics to be reorganized and replaced by the new ones. He was highlighted that to minimize the quantum of some topics, certain less important topics and topics repeated somewhere be removed from existing syllabus. Therefore, he underlined on the changes be taken place in the current syllabus. He suggested that a topic 'Unit III-Statistical Treatment of analytical data-II' from sem-IV is replaced by a new topic 'Chemical Calculations and Sampling Techniques' from TYBSC-Sem-V which is useful for students of all specializations and existing topic is shifted to TYBSc level. One more topic 'Significance of Sampling in Analytical Chemistry' from Unit-I, Sem-III is moved to unit-III- Chemical Calculations and Sampling Techniques of Sem-IV, Unit III. He also added, to minimize the immensity of Unit-II and Unit-III from sem-III some less essential topics like Types of titrimetry, Qualitative analysis such as Identification of functional groups in Organic compounds, Chromophores and Auxochrome, cis and trans isomers (As it covers in organic spectroscopy) and Photometric Titrations need to be removed. Similarly, some topic from Unit-I and Unit-II viz. electrophoresis, solvent extraction, applications of potentiometry in Neutralization reactions, graphical methods for detection of end points and conductometric titrations are also essential to exclude from existing syllabus. These exclusions will help to more emphasize on more important topics like chromatographic methods.

The detailed information of the developments made in the new syllabus is attached hereto as the Annexure I.

**Resolution No. 1:**

After thorough discussions, it is unanimously resolved that all the constructive changes made in the syllabus were accepted.

Proposed by: Dr. A. S. Varale  
Dr. S. T. Sankpal  
Dr. H. V. Chavan

Seconded by: Dr. R. G. Deshmukh

**Item No. 1.5 To discuss and decide upon use of rubrics for internal assessment**

Dr. S. T. Sankpal, the Chairman of BoS, commenced the discussion about the execution of rubrics for the internal assessment of students.

**Resolution No. 2:**

After thorough discussions, it is unanimously resolved that due to uncertainty in the execution of entire academic year because of covid-19 pandemic it is cumbersome to implement the rubrics for internal assessment. So the existing internal assessment system must be continued.

Proposed by: Dr. S. T. Sankpal

Seconded by: Dr. R. G. Deshmukh

**Item No. 1.6 Skill based certificate courses for UG and PG programmes to be introduced**

Dr. M. B. Deshmukh, the member of BoS, advised that the department as a whole should initiate the skill based courses as per its convenience. He also extended his views by saying that it is a need of era in which the employability fundamentals depend on the skills. Related with this, the BoS put-forth some of the courses such as:

- 1) Advanced Analytical Instrumentation Techniques
- 2) Soil and water analysis
- 3) Chemical Process economics

It is expected to be conducted these courses in the current academic year as per the convenience.

Dr. Sagar Sankpal said that the Prof. Vijay Mahajani, retired professor from UICT express their desire to associate with the college and he should willingly take care the teaching part of the course Chemical process economics.

**Resolution No. 3:**

It is unanimously resolved that among the above list at least one course should be started from the next academic year.

Proposed by: Dr. Dr. M. B. Deshmukh

Seconded by: Dr. S. T. Sankpal

**Item No. 1.7 Any other with permission of the chairman.**

As there was no with permission of chairman, the meeting was concluded with vote of thanks by Dr. Sagar Sankpal, Chairman, BoS.

Dr. Sagar Sankpal  
Chairman  
BoS in Chemistry

Dr. Narendra Tendolkar  
Principal