

ACTION TAKEN REPORT
[Meeting held on 16th July 2018]

1. As per the suggestion made by Dr. S. B. Kulkarni that the Assignments should be strictly given on the numerical problems based on the syllabus therein instead of expecting to solve good number of numerical problems in general. In order to implement this suggestion, the necessary 'note' is added in the draft syllabus and clear ideas are given to the faculty members to strictly adhere to solve adequate number of numerical problems based on the syllabus.
2. As per the suggestion made by Dr. S. B. Kulkarni that syllabus of Unit – I of Paper – I (Statistical Mechanics) of (M.Sc. - I) is being some sort of repetition from T.Y.B.Sc. Physics syllabus. Therefore, instead of that, to devote one Unit – IV of Paper – I (Statistical Mechanics) of (M.Sc. - I) to advanced statistical mechanics part and accordingly the Units are reshuffled and syllabus related to 'Phase transitions and critical phenomena' is included in the final syllabus.
3. As far as the Evaluation Pattern is concerned, no changes were suggested by the members; therefore, it is presented without modifications.
4. As far as the skill bases course for F.Y.B.Sc is concerned, no changes were suggested and therefore, it is presented without modification. In addition to this and as per the suggestions made by one of the members, Mr. Manish Gavade, all the faculty members in the department have decided to start skill based course on embedded systems and or Micro-controller and or interfacing etc. to M.Sc.-II class from the next academic year 2019-2020.
5. As the Syllabi of B.Sc. II, B.Sc. III [Physics & Applied Component – Electronic Instrumentation] and M.Sc. II [Physics – Materials Science] are given by the University of Mumbai and in order to maintain the continuity, they will be implemented this year (2018-19) without modification.

Dr. V. B. Pujari
Head

Dr. V. S. Shivankar
Principal

Rayat Shikshan Sanstha's
KARMAVEER BHAURAO PATIL COLLEGE, VASHI
DEPARTMENT OF PHYSICS
BOS MEETING NOTICE

Date: 01.02. 2019.

To,

| | | |
|---|--|---|
| 1) Prof. Prakash Mahanvar , Dept. of Polymer Engg and Surface Coating Technology, ICT, Matunga, Mumbai. | 2) Prof. Vikas B. Patil Head, Dept. of Physics, Solapur University, Solapur. | 3) Dr. S. B. Kulkarni Head, Dept. of Physics, Institute of Science, Fort, Mumbai. |
| 4) Prof. Varsha Bhattacharyya Former Head, Dept. of Physics, Mumbai University, Mumbai. | 5) Prof. Ajay Patwardhan Former Asso. Prof. St. Xavier's College, Mumbai. | 6) Mr. Manish Gavade Team Lead, John Deere India Pvt. Ltd, Cybercity, Pune. |
| 7) Mr. Vicky Jaiswal Asst. Teacher, St. Lawrence High- School, Vashi. | 8) And all Faculty Members of the Department | |

Dear Sir/Madam,

I would like to bring it to your kind notice that, our SYBSc and MSc-II syllabus are due for revision under autonomy from the academic year 2019-2020. The draft syllabus of both the classes has to be presented in front of the members of Board of Studies for suggestions and approval in its **Second meeting which is scheduled on Wednesday, 13th February, 2019 at 11.00 am** in Department of Physics, First Floor, Main Building.

I request you to kindly make it convenient to attend the same.

Agenda:

- 1 Reading and confirmation of minutes of previous meeting (16.07.2018)
- 2 Presentation of SYBSc curriculum
- 3 Presentation of MSc - II curriculum
- 4 Revision of MSc - I curriculum
- 5 Certificate courses for UG and PG
- 6 Any other (Revision of FYBSc curriculum and continuation of TYBSc syllabus as per Univ. of Mumbai syllabus and the evaluation methods).

Looking forward for your valuable suggestions and contribution. Your valuable suggestions will certainly help us in our endeavor of delivering quality education to the students.

Thanking you,

With warm regards

Dr. V. B. Pujari
Head,
Department of Physics
KBP College, Vashi.

Dr. V. S. Shivankar
Principal
KBP College Vashi, Navi Mumbai.

BOS MEETING MINUTES

Date: 13.02.2019.

Dr. Pujari [Head] extended welcome to all the members of BOS.

Reading of Agenda:

- Motion from Dr. Pujari: To approve the agenda for 13th Feb 2019.

Vote: All in favor.

Resolved: **Motion carried.**

Agenda for the meeting on 13th Feb 2019 approved without modification.

Business:

- Motion 1: Reading and confirmation of minutes of previous meeting on 16th July 2018 and Action taken report of that meeting.

Dr. Pujari read the minutes of the previous meeting on 16th July 2018 and the action taken report of that meeting.

Vote: All in favor.

Resolved: **Motion carried.**

Minutes from the meeting on 16th July 2018 and action taken report are approved without modification.

- Motion 2: Presentation of S.Y.B.Sc. Curriculum.

Discussion: Dr. Pujari presented the S.Y.B.Sc. Curriculum for both the semesters including practical courses. Dr. Pujari, emphasized on going back to regular three core subject pattern (semester wise) instead of one paper on applied physics in each semester, viz. Sem – III and IV, the reason is that conducting regular practicals on 'Geophysics', 'Biophysics' and 'Radiation Physics' (applied or allied branches) etc is not feasible in the conventional laboratories. Therefore, by looking at these constraints, the department has decided to conduct *these* applied physics courses in the form of Supplementary courses (additional credits) which will be compulsory in addition to the regular curriculum in both the semesters. The regular experiments for all the three papers (semester wise) related to theory curriculum are included in the practical courses.

Dr. Patil V. B. and Dr. S. B. Kulkarni suggested to shift 'curvilinear coordinate' from S.Y.B.Sc. to F.Y.B.Sc. in Paper – I, Unit – II (as it is continuation with Vector Calculus) of Sem – II. In addition to this, Prof. Ajay Patwardhan suggested that include Michelson's Interferometer as an application of interference phenomena in Paper – II, Unit – III (Polarization).

Dr. Pujari emphasized on inclusion of 'Differential amplifier' in S.Y.B.Sc. curriculum before they should study 'Operational amplifiers'. Discrete transistorized multivibrators and those based on IC

555 and study of 'Active filter circuits' is added as an application of operation amplifier and a separate paper on 'Analog Electronics' is included instead of Applied Physics – I.

Similarly, a separate paper on 'Digital Electronics' is included instead of 'Applied Physics-II'. Prof. Ajay Patwardhan, Dr. V. B. Patil and Dr. S. B. Kulkarni suggested not to include microprocessor in SYBSc, better to be there in TYBSc syllabus. Additionally, they have suggested to include Multiplexer, Demultiplexer, Encoder and Decoder before Flip-Flops in Unit - II and Counters (synchronous also) along with Registers in Unit – III.

No changes are suggested as far as Practical Courses are concerned.

Vote: All in favor.

Resolved: **Motion carried.**

- Motion 3: Presentation of MSc - II curriculum

Discussion: Dr. Pujari presented the M.Sc. - II Curriculum for both the semesters including practical courses and projects. Prof. Ajay Patwardhan insisted that we must include 'Advanced Electronics' paper in place of 'Statistical Mechanics' since it has been shifted in MSc – I during the academic year 2018-19. The reason is that since 'advanced electronics' is at the central part of Physics, Computers, Instrumentation and process controls etc.

Prof. Patwardhan, Dr. Mahanvar, Dr. V. B. Patil emphasized on shuffling of syllabus of following papers:

1. 'Fundamentals of Materials Science' paper (four units) syllabus should merge in three units and devote fourth unit for 'Recent Trends in Materials' and they have suggested the paper title as 'Fundamentals of Materials and Recent Trends'.
2. 'Materials and Their Applications' paper syllabus is should be shuffled appropriately and unit-wise headings are also to be given and the title of paper should be 'Materials Processing', which is most suitable to the syllabus therein.

By looking at our specialization (Materials Science) at M.Sc., Dr. V. B. Patil, Dr. Mahanvar and Dr. S. B. Kulkarni have suggested to include the following papers:

1. 'Properties of Materials' in place of 'Properties of Solids' which was a part of Solid State Physics specialization.
2. 'Thin Film Physics and Devices' in place of 'Nanoscience and Nanotechnology' which will be more suitable for students specialized in Materials Science.

Vote: All in favor.

Resolved: **Motion carried.**

- Motion 4: : Presentation of MSc - I curriculum

Discussion: Dr. Pujari presented the M.Sc. - I Curriculum for both the semesters including practical courses and projects. Prof. Ajay Patwardhan and Dr. Mahanvar insisted that there should be inclusion of 'Advanced Electronics' paper in place of 'Solid State Physics' since 'advanced electronics' must be studied as a core paper rather than studying it as an elective paper and stated earlier that, it is as the central part of Physics, Computers, Instrumentation and process controls etc.

Similarly, Dr. V. B. Patil, Prof. Ajay Patwardhan and Dr. S. B. Kulkarni insisted that there should be the inclusion of 'Experimental Physics' paper in place of 'Solid State Devices' since 'Experimental Physics' can be studied along with quantum mechanics and is instrumental, therefore, it has to be studied before studying the elective / specialization papers related to the applications, device and technology based papers in MSc-II.

Vote: All in favor.

Resolved: **Motion carried.**

Motion 5: Skill based courses (SYBSc & MSc - II)

Discussion: Dr. Pujari presented the syllabus of skill based course for both SYBSc and MSc Part – II classes. The syllabi of Applied Physics – I & II (S.Y.B.Sc.) is shuffled appropriately and following two certificate (supplementary) courses are made, which will be compulsory in addition to their regular curriculum.

1. Skill Based Course in 'Lasers, Fiber Optics, Instrumentation and Communication'.
2. Interdisciplinary Course in "Geophysics, Biophysics and Radiation Physics'.

Similarly, for MSc.-II, the following certificate (supplementary) courses are made, which will be compulsory in addition to their regular curriculum.

1. Skill Based Course in 'Nanoscience and Nanotechnology'.
2. Certificate Course in 'Advanced Materials'.

Vote: All in favor.

Resolved: **Motion carried.**

- Motion 6: Presentation of F.Y.B.Sc. Curriculum (**Revised**) and T.Y.B.Sc. [Physics & Applied Component – Electronic Instrumentation].

Discussion: The syllabus of F.Y.B.Sc. Physics is undergone the revision in order to maintain the continuity in the syllabus right from FYBSc to TYBSc and it is as per the following:

1. There is no change in both the papers of Sem – I.
2. Paper – I, Unit – II: Curvilinear coordinate systems should be introduced

3. Paper – II, Unit – I: AC bridges should be taken care of, since there is no space for these in SYBSc.

4. Paper – II, Unit – III: The syllabus of this unit is changed since it was quite basic and the study of passive filter circuits and transistor biasing circuits (from SYBSc) are introduced along with the Boolean Algebra and Karnaugh's maps etc.

Dr. Ajay Patwardhan and Dr. V. B. Patil suggested that the experiments be arranged group-wise for the Practical Courses of both the semesters.

Syllabi for courses of T.Y.B.Sc. [Physics & Applied Component – Electronic Instrumentation] were presented to the BOS. The syllabi are given by University of Mumbai and in order to maintain the continuity, they will be implemented this year (2019-20).

There will be no change in Evaluation Pattern [Both Internal & Semester End Exam].

Vote: All in favor.

Resolved: **Motion carried.**

Vote of thanks was proposed **Dr. Pujari**

Meeting adjourned at 2:30 pm.

Minutes of this meeting will be presented to the Academic Council for approval.

After incorporation of the necessary modifications, suggested by the BOS members in the syllabus of S.Y.B.Sc., M.Sc – II, FYBSc (Revised) & M.Sc.- I (Revised), the committee approved the syllabus for implementation, with effect from the current academic year 2019-20.

Declaration by the Chairman, BOS:

1. Syllabus for S.Y.B.Sc. Physics is hereby approved unanimously.
2. Syllabus for M.Sc. - II Physics (Materials Science) is hereby approved unanimously.
3. Syllabus for F.Y.B.Sc. Physics (Revised) is hereby approved unanimously.
4. Syllabus for M.Sc. - I Physics (Materials Science) (Revised) is hereby approved unanimously.
5. Syllabus for skill based courses (S.Y.B.Sc. & M.Sc. –II) is hereby approved unanimously.
6. Evaluation Pattern for all the classes is hereby approved unanimously.
7. Syllabi for T.Y.B.Sc. (Physics & Electronic Instrumentation) is hereby approved unanimously.

Dr. V. B. Pujari






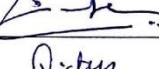
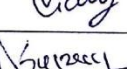
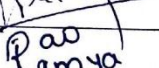

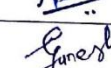



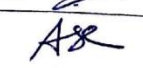

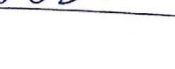
Chairman, BOS

Department of Physics

Rayat Shikshan Sanstha's
KARMAVEER BHAURAO PATIL COLLEGE, VASHI
DEPARTMENT OF PHYSICS
BOS MEETING (ATTENDANCE)

BOS Second meeting for the academic year 2018-19 was called to order on 13th Feb 2019 at 11.00 am by meeting chairman Dr. V. B. Pujari [Head].

Members present for the meeting:

| Sr. No. | Name | Designation | Position | Signature |
|---------|------------------------|----------------|----------|---|
| 1 | Dr. V.B. Pujari | Head | Chairman |  |
| 2 | Prof. Prakash Mahanvar | Professor | Member |  |
| 3 | Prof. V. B. Patil | Professor | Member |  |
| 4 | Dr. S. B. Kulkarni | Head | Member |  |
| 5 | Prof. Ajay Patwardhan | Retired | Member |  |
| 6 | Mr. Manish Gavade | Team Lead | Member |  |
| 7 | Mr. Vicky Jaiswal | Asst. Teacher | Member |  |
| 8 | Dr. S. P. Yadav | Faculty Member | Member |  |
| 9 | Ms. RamyaRao | Faculty Member | Member |  |
| 10 | Ms. Ankita Patil | Faculty Member | Member |  |
| 11 | Mr. Ganesh Surve | Faculty Member | Member |  |
| 12 | Mr. Sandeep Gupta | Faculty Member | Member |  |
| 13 | Ms. Sneha Ansurkar | Faculty Member | Member |  |
| 14 | Dr. UlkaSuryavanshi | Faculty Member | Member |  |
| 15 | Mr. AmanChaudhari | Faculty Member | Member |  |
| 16 | Ms. Chandni Nair | Faculty Member | Member |  |