

Hindi Vidya Prachar Samiti's  
**Ramniranjan Jhunjhunwala College (Autonomous), Ghatkopar (W)**  
**Department of Physics**

**Minutes of Board of Studies Meeting**

A meeting of members of Board of Studies [BOS] in Physics was held on Thursday, 26<sup>th</sup> August 2021 at 3.00 pm online on Zoom platform.

Members of the Board of Studies:

#	Category	Name of the Members
1	Head of the Department (Chairperson)	<b>Dr. Neeta B Srivastava</b>
2	All Faculty Members of the Physics Dept.	1. <b>Dr. Devraj Pawar</b>
		2. <b>Dr. Kiran Kolwankar</b>
		3. <b>Prof. Sandip Hinge</b>
		4. <b>Dr. Vaishali Raikwar</b>
		5. <b>Prof. Ashish Yadav</b>
		6. <b>Mr. Jagdish Hande</b>
		7. <b>Ms. Rani Shaikh</b>
		8. <b>Mr. Adwait Kulkarni</b>
3	Two Subject Experts from Outside the Parent University	1. <b>Dr. Shriganesh Prabhu</b> Tata Institute of Fundamental Research, Mumbai
		2. <b>Dr. Umesh Shinde</b> K J Somaiya Institute of Engineering & Information Technology, Sion, Mumbai
4	One Expert Nominated by the Vice Chancellor from a Panel of Six Recommended by the College Principal	<b>Dr. Shyamla Bodhane</b> Associate Professor, Dept. of Physics St. Xavier's College, Mumbai
5	One Representative from Industry / Corporate Sector Allied Area Relating to the placement	<b>Dr. Vinay Hasabnis</b> Chief Technology Officer, Energy & Resources, Pune

6	One Postgraduate Illustrious Alumni Nominated by the Principal	<b>Dr. Bharati Kakad</b> Associate Professor, Indian Institute of Geomagnetism, Panvel Navi Mumbai
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All the members attended the meeting.

#### **Agenda:**

- Introduction of new members of Board of Studies
- Minutes of the last meeting.
- Department Updates.
- Syllabus: Proposal of change in FYBSc syllabus for Academic Year 2021-2022.
- Review of MSc Syllabus: Inclusion of new Elective Papers.
- Proposal to increase the number of seats of Ph.D. from 4 to 12.

### **Minutes of BOS meeting 26/08/2021**

Following topics were discussed in the meeting:

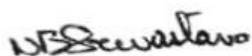
1. Dr. Neeta Srivastava, Head Department of Physics, welcomed the newly formed BOS committee members.
2. Dr. Neeta B Srivastava read the minutes of the last BOS meeting.
3. Syllabus: Since there was no proposed change in the SYBSc and TYBSc syllabus (at UG level) as all the changes suggested earlier by the members were already incorporated in the syllabus, no discussion was there.
4. Recent updates of department activities were given from June 2021 to August 2021. This includes "The Summer Workshop" conducted from June 10-12 June 2021 and a "Value Added Course" conducted from June 22<sup>nd</sup> - July 3<sup>rd</sup> 2021.
5. The draft syllabus of F Y B Sc Sem I and SEM II for the academic year 2021-22 was displayed and explained by the HOD, Dr. Neeta B Srivastava.

The following suggestions were given by the various BOS members

- (i) Dr. Madhavi Thakurdesai suggested that students should be given some portion of the topic as assignments to inculcate the habit of self-studies.
- (ii) She also suggested that there should be 'Mathematical Methods' portion in the curriculum.
- (iii) Dr. Kiran Kolwankar gave his opinion that 'Mathematical Methods' should be taught wherever they are required.
- (iv) Dr. Neeta Srivastava explained to the members that the 'Mathematical Physics' portion will be shifted to SY BSc syllabus.
- (v) Dr. Neeta Srivastava also suggested conducting tutorial classes.
- (vi) Dr. Bharati Kakad suggested including Vectors Dot and Cross-Product in the first unit.
- (vii) Dr. Umesh Shinde asked about the removal of topics like 'curl and divergence' from FYBSc. Dr. Neeta Srivastava explained to him that the topic is shifted to the SYBSc syllabus.

- (viii) Dr. Shyamala Bodhane supported the decision of shifting of Mathematical Methods from FY BSc to SYBSc.
- (ix) Dr. Madhavi Thakurdesai suggested changing the practical list.
- (x) Many suggestions came from Dr. Bodhane and other board members regarding the selection of experiments. Dr. Umesh Shinde expressed that experiments and theory should match. Dr. Bodhane also suggested to put the syllabus on Website
- (xi) semester-wise. All suggestions were noted.
- (xii) Department agreed on modifying the list of experiments.
- (xiii) Dr. Madhavi Thakurdesai suggested to write the LO's (learning outcomes) and CO's (course outcomes) after every course in the syllabus, PSO (programme specific outcomes) for TYBSc in the syllabus.
- (xiv) Dr. Kiran Kolwankar gave information about the inclusion of more electives in the MSc Physics curriculum. He also thanked the board members for their suggestions on experiments. Dr. Kolwankar gave information about the number of recognized Ph.D. guides from the department. Dr. Madhavi Thakurdesai gave more information about the selection of candidates for doing PhD.
- (xv) **In view of the increased number of guides in the Department, it was suggested that the number of seats for Ph. D. be increased from 4 to 12.**
- (xvi) Dr. Kiran Kolwankar presented the MSc Physics curriculum. Dr. Umesh Shinde enquired about a software based electronic syllabus. Dr. Shriganesh Prabhu enquired about the softwares used in computational physics course and whether these softwares are used for UG level or not. Dr. Kolwankar then gave information about the Scilab used by the students at TY BSc in semester VI and used by them in projects. Dr. Prabhu suggested using Octave software at MSc level. Dr. Vinay Hasabnis threw more light on free softwares that can be used by the students. Dr. Shriganesh Prabhu suggested that students at Masters Level can also conduct tutorials for UG students. This idea was seconded by Dr. Umesh Shinde. Dr. Neeta Srivastava informed the board members about the Value Added Course where students from all streams had learnt various applications of softwares that can be run on android mobiles. Dr. Neeta Srivastava requested Dr. Prabhu to send the information about few softwares which students can use.
- (xvii) Dr. Umesh Shinde suggested that some parts of RF Technology and PCB Design could be included in the syllabus. Dr. Vaishali Raikwar informed the members that the PCB design is studied at TYBSc level.

The meeting ended with the vote of thanks by HOD, Dr. Neeta Srivastava who thanked all the members for actively participating and giving their valuable inputs and insights.



**Dr. Neeta B Srivastava**  
**Head, Dept. of Physics**