Minutes of the Meeting of the Board of Studies (Physics)

The meeting of the Board of Studies (Physics) was held Online on 31st May, 2021 at 11.00 a.m. The meeting followed with the following concerns on the agenda.

Agenda

1. To welcome all the members of BoS

2. Finalization of the minutes of the last meeting held on July 10, 2020

3. To review academic and other activities of last academic year (2020-21)

4. To review and discuss the syllabus for T.Y.B.Sc Physics

5. To discuss the criteria of the internal assessment of T. Y. B. Sc. Students

6. To discuss the examination pattern for theory and practical.

7. To commence value added as well as skill based courses

8. Any other subject with the permission of the Chairman

The following members were present for the meeting.

i.	Principal Dr. N. P. Tendolkar	(Chairman of the BoS)
ii.	Principal Dr. Sandesh Gurav	(VC Nominee: Member BoS)
iii.	Dr. Pushpinder Bhatia	(Invited Subject Expert)
iv.	Dr. M. R. Kale	(Member of the BoS)
v.	Mr . U. B. Bhatye	(Member of the BoS)
vi.	Mr. P. P. Jadhav	(Member of the BoS)
vii.	Mr. A. C. Dhware	(Member of the BoS)
viii.	Dr. V. L.Mathe	(Subject experts outside the Parent University: Member BoS)
ix.	Mr. Sachin Bhandare	(One representative from industry)
x.	Dr. M. M. Karanjkar	(Subject experts outside the Parent University: Member BoS)

Minutes of the meeting

Principal Dr. N. P. Tendolkar, Chairman of the BoS, heartily welcomed all the external members present for the meeting and expressed heartfelt gratitude. He called upon Dr. Meera Kale to take a thorough overview of the agenda and commence the meeting.

Dr. Meera Kale suggested that the minutes of the meeting held on July 10, 2020 were already emailed to all BoS members. Further, she asked if anyone wants to say something about those minutes and appealed members to pass the same. Dr. Pushpinder Bhatia seconded the proposal.

i) **It was resolved unanimously that the minutes of the last meeting held on July 10, 2020 be finalized.**

Proposed by: Dr. Meera R. Kale   Seconded by: Dr. Pushpinder Bhatia

Dr. Meera Kale informed meeting that, during the last academic year 70-80 % teaching was conducted in online mode using platforms such as Google Meet, Zoom, and Goggle Classroom. Rest of the syllabus was taught offline. Prin. Dr. Pushpinder Bhatia asked about how the practicals were conducted in semester 5 and semester 6? Dr. Meera Kale informed that in semester 5, practicals were conducted in the lab in offline mode and in semester 6, videos for practicals were sent to the students. Prin. Bhatia suggested that the department should create a repository for both theory and practicals, for all classes of all the video material created and Mr. Uday Bhatye should take initiative to create the repository.

Dr. Meera Kale further informed the meeting that, during last academic year department organized Three Days National Level Seminar on "Astronomy and Climate Change". About 125 participants attended and appreciated the same. Moreover, the department organized one National level Webinar on "Career opportunities in Embedded System" and one International level Webinar on "Mixed Reality". Both these webinars benefited around 80-100 participants.

She also told the meeting that besides the online assessment of students using Google forms, students were given assignments. The internal examination consisted of 10 marks objective and 20 marks of descriptive questions. The students wrote the answer on the sheets provided to them. The students submitted it online after converting the same into PDF format files. Use of Auto-proctor software was made during all the online examinations.

Prin. Dr. Narendra Tendolkar informed the meeting about the methodology of online proctoring and validation of trust score.

Prin. Dr. Sandesh Gurav informed that in his institution they use Microsoft Team Classroom software for online proctoring.

ii) **The members of the BoS unanimously resolved to congratulate the Department of Physics, ASP College for successfully conducting online teaching, examinations and academic activities.**

Proposed by: Dr. Pushpinder Bhatia   Seconded by: Dr. Sandesh Gurav

Dr. Meera Kale informed the meeting that the draft of the new syllabus for T.Y.B.Sc is already provided to all the BoS members through email. No change is made in the core theory papers of T.Y.B.Sc. as the same are in continuation of First year and second year syllabus.

She also informed that the practical curriculum was adjusted according to the revised F.Y. and S.Y. B. Sc. Syllabi. Practicals were brought in line with the relevant theory taught in a particular semester of T. Y. B. Sc. also.

Dr. Meera Kale invited Mr. U. B. Bhatye to highlight the changes in applied component curriculum for T. Y. B. Sc. He mentioned that earlier it consisted of python and 8085 or 8051 in semester 5 and 6. Students were not getting sufficient understanding of 8085 / 8051 interfacing. Further, as per revised S.Y.B.Sc. syllabus, semester 5 student have no background of 8085 to start with. By making python as an add-on course, micro-processor/controller interfacing can be covered effectively. He also mentioned that most of the practicals related to 8085 and python can be done by the students using a smartphone so that even in the event of the pandemic covering entire semester 5, the curriculum can be dealt with effectively. The detailed information of the reforms made in the new syllabi is attached hereto as the Annexure I.

iii) **It is unanimously resolved that the changes made in the syllabus were accepted.**

Proposed by: Dr. Meera Kale   Seconded by: Dr. M. M. Karanjkar

Dr. M. R. Kale initiated the discussion about the pattern of the internal examination. She furthered on that the pattern for the internal assessment for the T. Y. B. Sc. students be of 30 marks comprising of 1 class test for 10 marks. She evoked that the 10 marks be assigned for the various classroom activities such as seminar, research projects, problem solving, participation in online courses, open book examination etc. and the rest 10 marks be classified into such as the 5 marks for attendance and 5 marks for active participation in the classroom.

iv) **It is unanimously resolved that the evaluation criteria for the internal examination were accepted.**

Proposed by: Dr. M. R. Kale Seconded by: Dr.V. L. Mathe

Dr. Meera Kale informed the meeting about the separate value added course to be introduced from coming academic year – Introduction to Programming with Python. Mr. Uday Bhatye explained the motive behind separating python from applied component and introducing it as add-on course. He said that nowadays, programming skill are becoming necessary and creating this as an add-on course will also enable students from other disciplines to join. He further mentioned that the course will be developed in a self-paced online mode.

Prin. Dr. Sandesh Gurav mentioned that presently there are various opportunities in the field of mechatronics and artificial intelligence and suggested that efforts may be made to introduce topics related to these fields in coming years. Prin. Dr. Narendra Tendolkar mentioned that these should be added from the first year and cannot be introduced directly in the third year. He also assured that after the pandemic, we can think of introducing such courses where involvement of external experts is needed.

Dr. Sachin Bhandare also emphasized the increasing importance of python, artificial intelligence and machine learning in the industry. He mentioned that even if the students have initial knowledge in the field, they can get a job and are later trained by companies.

Prin. Dr. Tendolkar mentioned that B.Sc. degree is presently of 120 credits. Considering the students' abilities, from year 2022-23, we may introduce add-on courses each with 2 credits in every year so that the degree will be of 126 credits and these additional credits may be from optional courses like machine learning, artificial intelligence etc.

Prof. Vikas Mathe inquired whether the present curriculum has some elective options in the 120 credits. Prin. Dr. Tendolkar explained that due to present situation this has not been considered.

v)   **It is unanimously resolved that the value added course - Introduction to Programming with Python designed by department is accepted.**

Proposed by: Mr. U.B. Bhatye   Seconded by: Dr. Sandesh Gurav

Prin. Dr. N. P. Tendolkar pointed out that in the present pandemic situation, we are following the University as well as government guidelines regarding the examinations. As such examination in the upcoming academic year 2021-22 will be held in accordance therewith.

vi)   **It is unanimously resolved that the all the examinations in the forthcoming academic year will be conducted in conformity with the relevant Government/ UGC/University instructions.**

Proposed by: Dr. N. P. Tendolkar   Seconded by: Mr. Sachin Bhandare

Mr. U. B. Bhatye expressed vote of thanks on behalf of the department as well as the college regarding the incredible contribution of all the members of the BoS for their valuable suggestions.

The meeting summed up at 12.30 p.m.