



Pandit Deendayal Energy University

School of Technology (SoET)

Knowledge Corridor, Raisan Village,
Gandhinagar - 382426 Gujarat (State), INDIA

**Minutes of the Meeting
of
Board of Studies (BoS)
Department of Physics**

(Date: 23rd June, 2023; Time: 3:00 PM onwards

Venue: E-block 1st Floor Conference Room)



**Pandit Deendayal Energy University
Knowledge Corridor, Raisan Village,
Gandhinagar - 382426 Gujarat (State), INDIA
Tel: +91 79 23275060 | Fax: +91 79 23275030**

Website: www.pdpu.ac.in



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The following members were present in the meeting:

Sr. No.	Designation	Member Names
1.	Chairman	Dr. Satyam M. Shinde
2.	Department Member-1	Dr. Rohit Srivastava
3.	Department Member-2	Dr. Brijesh Tripathi
4.	Department Member-3	Dr. Prahlad K. Baruah
5.	External academic members-1	Prof. Prafulla K. Jha
6.	External academic member-2	Dr. Vinod Chandra
7.	External professional member-1	Dr. Rajesh Upadhyay
8.	External professional member-2	Dr. Arvind Singh
9.	UG Student Member-2	Ms. Yashvi Bulasara
10.	PG Student Member	Mr. Nisarg Trivedi
11.	Alumni Member-1	Mr. Sanhit Mehta
12.	Department Faculty (Invitee)	Mr. Abhishek Gor
13.	Department Faculty (Invitee)	Dr. Mayank Gupta
14.	Department Faculty (Invitee)	Dr. Mansi Dhuria
15.	Department Faculty (Invitee)	Dr. Sheetal Rawat
16.	Department Faculty (Invitee)	Dr. Apoorva Bhatt

The following members were not present in the meeting:

Sr. No.	Designation	Faculty Names
1.	Director, SoET	Prof. Anirbid Sircar
2.	Dean, SoET	Dr. Praghresh Bhatt
3.	UG Student Member-1	Ms. Dhyanavi Rao
4.	Alumni Member-2	Mr. Ridhesh Goti



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Agenda 1: To discuss the syllabus for elective baskets in B.Sc. Sem V, VI and VII.

The syllabus of the following highlighted courses were taken up for approval in the BoS meeting:

Basket 1:

1. B.Sc. V - Relativistic-astrophysics
2. B.Sc. VI - Cosmology
3. B.Sc. VII – Experimental methods in astrophysics

Basket 2:

1. B.Sc. V - Radiation Detection and Measurement
2. B.Sc. VI - Radiation Physics elective -II
3. B.Sc. VII - Radiation Physics elective –III

Basket 3:

1. B.Sc. V - Basic Concept of Bioinformatics
2. B.Sc. VI - Bioinformatics and Biological Databases
3. B.Sc. VII - Structural Bioinformatics

Discussion:

- More generalized name for Cosmology course like, Introduction to Cosmology and Early Universe is suggested.
- Additional experimental exposure like, visit to observatory, data analysis related to astronomical data can be included.
- Astrophysics/Cosmology courses content can be made milder.
- The syllabus of B.Sc. V - Radiation Detection and Measurement is fine and approved.
- The syllabus of B.Sc. V, VI, VII elective basket on Bioinformatics are fine and approved.

Based on the suggestions received, the following modifications have been made to the proposed syllabus:

- The revised names of Sem V and Sem VI courses are:
 1. B.Sc. V - Relativistic-astrophysics **Introduction to Relativity**
 2. B.Sc. VI - Cosmology **Introduction to Cosmology and Early Universe**
- The syllabus of course B.Sc. V and B.Sc. VI of Astrophysics basket have been revised as per suggestions. Few topics have been removed. The concerned faculty will also ensure that the level of course remains on the milder side.
- In B.Sc. VII course of the basket, the introductory data analysis is already included in the curriculum. The additional visits to observatory can be planned during the semester.

The detailed syllabus with the suggestions incorporated for the aforementioned courses are in Annexure A.



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Agenda 2: To discuss the proposed changes in the existing B.Sc., M.Sc. and B.Tech. Courses and introduction of new courses.

The syllabus of the following courses were taken up for approval in the BoS meeting:

B.Sc.

B.Sc. Sem III- Introduction to Astrophysics (22BSP201T)

B.Sc. Sem VII- Optoelectronics and Laser (New course) in place of Laser & Applications (22BSP401T)

B.Sc. Sem VI- Basic electronics (18BSP603T)

M.Sc.

M.Sc. Sem II- Classical Electrodynamics and Basic Plasma Physics (21MSP510T)

M.Sc. Sem II- Nuclear and Particle Physics Laboratory (21MSP509P)

M.Sc. Sem II- Nuclear and Particle Physics (21MSP509T)

B.Tech.

B.Tech. Petroleum- Applied Physics

Discussion:

- The BoS members suggested that the course B. Sc. Sem VII- Optoelectronics and LASER should be revised. The title should be changed to LASER and Optoelectronics with LASER units reshuffled as UNIT 1 and 2 and Optoelectronics units as 3 and 4.
- B.Tech. course in Petroleum Engineering-Applied Physics to be presented in BoS of Petroleum.
- The other proposed changes in the aforementioned courses were found to be fine and approved.

Based on the suggestions received, the following modifications have been made to the proposed syllabus:

- The title of B. Sc. Sem VII- Optoelectronics and LASER course has been changed to LASER and Optoelectronics with LASER units reshuffled as UNIT 1 and 2 and Optoelectronics units as 3 and 4.

The detailed syllabus of these courses with the changes incorporated are in Annexure A.

Agenda 3: Any other suggestions by the BoS members

Discussion:

- The chairman proposed a 2 weeks rural internship - 1 credit for B. Sc. Sem II. The same was approved by the BoS.



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- There was a suggestion to include another elective on Quantum Mechanics-2 for B.Sc. sem VII. The possibility of the same will be discussed in the department and may be taken up in the next BoS meeting.
- There was also a suggestion by the student members of the BoS to involve M.Sc. students as TA in theory courses. The same will also be discussed in the department.
- There was also a suggestion to include additional programming course in B.Sc. However, it was brought to notice that there are already sufficient courses on programming in B.Sc. Hence, the addition of more programming courses is not required at this stage.
- There was also a suggestion to offer Python programming in second year rather than Final year. The possibility of the same will be discussed in the department and may be taken up in the next BoS meeting.
- There was also a suggestion to include additional course on semiconductor processing in M.Sc. for industry needs. The same will be discussed in the department and may be taken up in the next BoS meeting.

The meeting ended with a vote of thanks.

Dr. Satyam Shinde

BoS Chairman