Minutes of BOS Physics Meeting

The board of studies meeting was conducted online on Thursday, March 20, 2025 at 3.00 pm. Google meet link: https://meet.google.com/vbf-nhsi-thz

The agenda of meeting Agenda for the Meeting:
1) To approve the minutes of the BOS Physics meeting dated October 7, 2024.
2) To discuss and approve the framework of the syllabus of SEM 5-6 under NEP.
3) To discuss and approve SEM 5 syllabus under NEP
4) AOB

The meeting attended by following members:

- Principal Dr. Anita Kanwar (HOD and Chairperson)
- Dr. Devidas Gulwade (In-Charge HOD)
- Mr. Shrikant Ghodke
- Dr. Sarla Rathi
- Dr. Santosh Bhaskaran
- Dr. Dinesh Kala
- Dr. Rajiv Dusane
- Dr. Amar Kakad
- Mr. Tejas Rathod

Agenda 1: To approve the minutes of the BOS Physics meeting dated October 7, 2024. At the start of the meeting, the minutes of the previous meeting, held on October 7, 2024, were read and subsequently approved by Dr. Dinesh Kala & was seconded by Dr. Dusane and also accepted by all the members.

Agenda 2: To discuss and approve the framework of the syllabus of SEM 5-6 under NEP.

Framework of course structure as per NEP was briefly discussed. As per preview of NEP guidelines, syllabus framework of SEM1-4, approved in past meetings, was discussed. The framework of syllabus and approved syllabus in the previous meetings was summarised. After the overview of SEM1-4 syllabus, the structure and physics papers of SEM 5 & 6 syllabus containing was discussed. A summary of framework SEM1-6 is provided below. Also, Field project (FP) and Onjob training (OJT) components of SEM5 and 6 were discussed. It is approved that under FP, students will visit to research lab, Academic institutes, characterization lab or companies and will undertake work assigned related to their visit. FP and OJT may be earned by doing internships. Also, students can work towards research project, science projects, Lab maintenance training and advanced courses.

Sem	Major	Minor	VSC	OE
1	P1: Mechanics and Thermodynamics P2: Optics and Material Science Practicals	_	CPP programming	Life Outside Earth
2	P1: Electricity and Electronics P2: Modern Physics Practicals	Basic Physics and Electronics	Circuit Making using Bread Board, Software, and PCB	Life Outside Earth
3	P1:Advanced Thermodynamics and Mechanics P2: Optics Practicals	Measurements and Thermodynamics Practicals	Microprocessor	Astronomy and Biophysics
4	P1: Electronics P2: Mathematical and Quantum Physics Practicals	Introduction to Materials and Characterization techniques	-	Astronomy and Biophysics

SEM	Major	Elective	Minor	VSC
5	P1: Mathematical & Thermal and Statistical Physics P2: Solid State Physics P3: Electrodynamics Practicals	P1: Atomic and Molecular P2: Special Theory of Relativity P3:Characterization techniques Practicals	Digital Electronics and Nuclear Physics Practicals	Microprocessor, Microcontroller and Python programming
6	P1: Classical Mechanics P2: Nuclear Physics P3: Electronics Practicals	--"--	Electronics And Radiation Physics Practicals	-

Agenda 3: To discuss and approve SEM 5 syllabus under NEP

After approval of SEM5-6 framework, detailed syllabus of three Physics major papers, three electives, lab of major & elective courses and Vocational skill course was discussed and approved. Also, minor theory course and Lab course that will be offered to

chemistry/Microbiology major students was discussed and approved. It was approved that same three major courses would be offered in SEM 5 and 6 and students will opt one elective each semester.

Agenda 4: AOB

A need to devote more time for Lab courses was highlighted by members. It was highlighted that with this intention Lab based VSC course are introduced. Also, various teaching methods that may be adopted for effective learning and completion of syllabus was discussed. Further, how elective courses will be carried out and an elective course will be offered if more than fifteen students opt a particular course.

Meeting ended with vote of thanks proposed by Dr. Sarla Rathi.