



Anekant Education Society's

**Tuljaram Chaturchand College  
of Arts, Science, Commerce, Baramati  
(Autonomous)**

**DEPARTMENT OF PHYSICS**

(Faculty of Science and Technology)

**Minutes of Board of Studies Meeting No.9**

**Date of Meeting: 09/06/2023**

**Venue: Department of Physics**

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June, 2023

Anekant Education Society's  
**Tuljaram Chaturchand College, Baramati**  
Department of Physics

# NOTICE

Date: 06/06/2023


## Board of Studies Meeting

All members of the Board of Studies in Physics are hereby informed that, as per Notice no. 53 dated on 29/05/2023 issued by the college, the online/offline meeting of BOS in Physics is organized on 09<sup>th</sup> June 2023 at 12:30 pm. in the Department of Physics. As esteemed members of the board, your presence and input during the meeting would be greatly appreciated.

**The agenda for the meeting is as follows:**

1. To confirm the minutes of the previous meeting held on Monday, 08/04/2023.
2. To design and approve course and credit structure for the B.Sc., and M. Sc. programme in accordance with (NEP 2020) 2023 pattern.
3. To prepare and approve curriculum of F.Y.B.Sc. Semester-I (2023 pattern) to be implemented from the academic year 2023-2024.
4. To prepare and approve curriculum of M.Sc.-I Semester-I (2023 pattern) to be implemented from the academic year 2023-2024.
5. To introduce MOOC Certificate courses from SWAYAM platform for the S.Y.B.Sc and T.Y.B.Sc as per 2022 pattern.
6. To discuss and incorporate the relevant feedbacks of the stakeholders (students, teachers, parents, alumni and employers) in the curriculum.
7. Any other issue with the permission of the chair.

Therefore, I kindly request you all to attend the aforementioned meeting and invite you to provide your valuable inputs for the designing the curriculum in accordance with 2019 pattern.

  
Chairman  
BOS in Physics



  
Principal

Anekant Education Society's  
Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati  
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## Department of Physics

### List of Members Presented for the BOS Meeting

The following internal and external BoS members were attended the Board of Studies (Physics) meeting held on 09<sup>th</sup> June, 2023.

Sr No	Name & Address	Designation
1	Dr. P. C. Pingale	Chairman
2	Prof. Dr. S.S.Veer	Member, Expert from SPPU, Pune
3	Prof. Dr. K.Y Rajpure	Member, Expert from Shivaji University
4	Prof. Dr. K.R.Priolkar	Member, Expert from Goa University
5	Mr.Subhash Zambare	Representative from industry
6	Dr. Swapnil Nardekar	Alumni and Research Scholar
7	Dr. A.E. Kalange	Member
8	Dr. R.D.Mane	Member
9	Dr. R.T. Sapkal	Member
10	Dr. S. B. Kulkarni	Member
11	Mr. S. B. Kakade	Member
12	Dr. V.S. Mohite	Member
13	Mrs.S. E.Bhosale	Member
14	Dr.S.J.Rajoba	Member
15	Mr. S. S.Mhaske	Member
16	Dhanashree Hole	Student Representative
17	Aditya Sorate	Student Representative
18	Saurabh Malve	Student Representative
19	Asmita Ghadge	Student Representative

## MINUTES OF THE MEETING

As per the Notice no. 53 dated on 29/05/2023 issued by the college, the meeting of Board of Studies in Physics was successfully held on 09<sup>th</sup> June, 2023 at 12:30 pm in the Department of Physics, T. C. College, Baramati. The meeting took place in both online and offline mode, adhering to the guidelines and protocols set by the college. The meeting was held under the guidance of Prof. Dr. Pandurang Pingale, Chairman of the Board of Studies in Physics, the meeting commenced with a warm welcome to all the esteemed members, followed by a brief introduction of the meeting's objectives

During the meeting, fruitful discussions were held on the items mentioned in the circulated agenda. We are pleased to inform you that the following resolutions were made during the BOS meeting.

**1. To confirm the minutes of the previous meeting held on 08<sup>th</sup> April 2023.**

Dr.P.C.Pingale read the minutes of the BoS meeting held on 08<sup>th</sup> April 2023 and put forward to the BoS members for the approval.

*Resolution No. 1:* The minutes of the previous Board of Studies meeting were approved and confirmed.

**2. To design and approve course and credit structure for the first year UG & PG (Sem-I & II each) programme in accordance with (NEP 2020) 2023 pattern.**

The BoS has discussed the course and credit structure of the F.Y.B.Sc. and M.Sc.I as per the NEP 2020 guidelines. All BoS members unanimously finalized the course & credit structure. After careful consideration and thorough discussion, the final course & credit structure has been determined, ensuring compliance with the NEP 2020.

**Resolution 02:** Considered and approved as mentioned in the following table

Course structure for FYBSc Physics (NEP 2020) 2023 pattern.

Sem.	Course Type	Course Code	Course Name	Theory/ Practical	Credits
I	Major Mandatory	PHY-101-MJM	Mechanics & Properties of Matter	Theory	2
	Major Mandatory	PHY-102-MJM	Electromagnetics	Theory	2
	Major Mandatory	PHY-103-MJM	Physics Practical-I	Practical	2
	Open Elective (OE)	PHY-116-OE	Astronomy-I [आकाशाशीजडलेनाते - भाग१]	Theory	2
	Open Elective (OE)	PHY-117-OE	Astronomy-I [आकाशाशीजडलेनाते - भाग१] Practical	Practical	2
	Vocational Skill Course (VSC)	PHY-121-VSC	Physics Workshop Skills-I	Theory	2
	Skill Enhancement Course (SEC)	PHY-126-SEC	Applications of Internet of Things-I	Practical	2
	Ability Enhancement Course (AEC)	ENG-131-AEC	Functional English-I	Theory	2
	Value Education Course (VEC)	PHY-135-VEC	Environmental Science	Theory	2
	Indian Knowledge System (IKS)	PHY-137-IKS	Knowledge System of Bharata	Theory	2
	Co-curricular Course (CC)	-	To be Selected from the Basket	Theory	2
				<b>Total Credits Semester-I</b>	<b>22</b>
II	Major Mandatory	PHY-151-MJM	Heat & Thermodynamics	Theory	2
	Major Mandatory	PHY-152-MJM	Physics Principles & its Application	Theory	2
	Major Mandatory	PHY-153-MJM	Physics Practical-II	Practical	2
	Minor	PHY-161-MN	Basic Physics	Theory	2
	Open Elective (OE)	PHY-166-OE	Astronomy-II [आकाशाशीजडलेनाते - भाग२]	Theory	2
	Open Elective (OE)	PHY-167-OE	Astronomy-II [आकाशाशीजडलेनाते - भाग२] Practical	Practical	2
	Vocational Skill Course	PHY-171-	Physics Workshop Skills-II	Theory	2

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(VSC)	VSC			
Skill Enhancement Course (SEC)	PHY-176-SEC	Applications of Internet of Things-II	Theory	1
Skill Enhancement Course (SEC)	PHY-177-SEC	Applications of Internet of Things-I: Practicals-II	Practical	1
Ability Enhancement Course (AEC)	ENG-181-AEC	Functional English-II	Theory	2
Value Education Course (VEC)	PHY-185-VEC	Value Education & Physics	Theory	2
Co-curricular Course (CC)	-	To be Selected from the Basket	Theory	2
<b>Total Credits Semester-II</b>				<b>22</b>
<b>Cumulative Credits Semester I + Semester-II</b>				<b>44</b>

**Course structure for MSc I Physics (NEP 2020) 2023 pattern.**

Sem	Course Type	Course Code	Course Name	Theory/ Practical	No. of Credits
I	Major (Mandatory)	PHY-501-MJM	Mathematical Methods in Physics	Theory	4
	Major (Mandatory)	PHY-502-MJM	Classical Electrodynamics	Theory	4
	Major (Mandatory)	PHY-503-MJM	Physics Laboratory-I	Practical	2
	Major (Mandatory)	PHY-504-MJM	Physics Laboratory-II	Practical	2
	Major (Elective)	PHY-511-MJE (A)	Classical Mechanics	Theory	4
		PHY-511-MJE (B)	Electronics	Theory	
		PHY-511-MJE (C)	Physics of Thin Films-I	Theory	
	Research Methodology (RM)	PHY-524-RM	Research Methodology	Theory	4
<b>Total Credit Semester-I</b>					<b>20</b>
	Major (Mandatory)	PHY-551-MJM	Atoms, Molecules and Laser	Theory	4
	Major (Mandatory)	PHY-552-MJM	Quantum Mechanics	Theory	4
	Major (Mandatory)	PHY-553-MJM	Physics Laboratory-III	Practical	2
	Major (Mandatory)	PHY-554-MJM	Physics Laboratory-IV	Practical	2

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II	Major (Elective)	PHY-561-MJE (A)	Physics of Semiconductor Devices	Theory	4
		PHY-561-MJE (B)	Biophysics	Theory	
		PHY-561-MJE (C)	Physics of Thin Films-II	Theory	
	On Job Training (OJT)/Field Project	PHY-581-OJT/FP	On Job Training Field Project	Training/ Project	4
<b>Total Credit Semester-II</b>					<b>20</b>
<b>Cumulative Credits Semester I and II</b>					<b>40</b>

Credit structure of FYBSc (Sem-I & II) and MSc (Sem-I & II) was finalized unanimously as mentioned above.

**3.To prepare and approve curriculum of F.Y.B.Sc. Semester-I (2023 pattern) to be implemented from the academic year 2023-2024.**

The BoS has discussed the course structure of the F.Y.B.Sc,Sem- I (NEP 2023 Pattern) credit structure guidelines. All BoS members unanimously finalized the course & credit structure. After careful consideration and thorough discussion, the final course & credit structure has been determined

**Course Structure for NEP-2020 F.Y.B.Sc.Sem I, Physics (NEP 2020) 2023 pattern.**

Sem.	Course Type	Course Code	Course Name	Theory /Practical	Credits
I	Major Mandatory	PHY-101-MJM	Mechanics & Properties of Matter	Theory	2
	Major Mandatory	PHY-102-MJM	Electromagnetics	Theory	2
	Major Mandatory	PHY-103-MJM	Physics Practical-I	Practical	2
	Open Elective (OE)	PHY-116-OE	Astronomy-I [आकाशाशीजडलेनाते - भाग१]	Theory	2
	Open Elective (OE)	PHY-117-OE	Astronomy-I [आकाशाशीजडलेनाते - भाग१] Practical	Practical	2
	Vocational Skill Course (VSC)	PHY-121-VSC	Physics Workshop Skills-I	Theory	2

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	Skill Enhancement Course (SEC)	PHY-126-SEC	Applications of Internet of Things-I	Practical	2
	Ability Enhancement Course (AEC)	ENG-131-AEC	Functional English-I	Theory	2
	Value Education Course (VEC)	PHY-135-VEC	Environmental Science	Theory	2
	Indian Knowledge System (IKS)	PHY-137-IKS	Knowledge System of Bharata	Theory	2
	Co-curricular Course (CC)	-	To be Selected from the Basket	Theory	2
			<b>Total Credits Semester-I</b>		<b>22</b>

**Resolution No. 3:** Considered and Approved.

**4. To approve & finalize the credit structure for M.Sc.-I Sem-I (2023 NEP pattern) be implemented from the academic year 2023-24.**

The BoS has discussed the course structure of the M.Sc.-I Sem I (2023 NEP pattern) credit structure guidelines. All BoS members unanimously finalized the course & credit structure. After careful consideration and thorough discussion, the final course & credit structure has been determined to be implemented from the academic year 2023-24.

**Course structure for NEP-2020 M.Sc.-I Sem-I, Physics (NEP 2020) 2023 pattern.**

Sem	Course Type	Course Code	Course Name	Theory/ Practical	No. of Credits
I	Major (Mandatory)	PHY-501-MJM	Mathematical Methods in Physics	Theory	4
	Major (Mandatory)	PHY-502-MJM	Classical Electrodynamics	Theory	4
	Major (Mandatory)	PHY-503-MJM	Physics Laboratory-I	Practical	2
	Major (Mandatory)	PHY-504-MJM	Physics Laboratory-II	Practical	2
	Major (Elective)	PHY-511-MJE (A)	Classical Mechanics	Theory	4
		PHY-511-MJE (B)	Electronics	Theory	
		PHY-511-MJE (C)	Physics of Thin Films-I	Theory	
	Research Methodology (RM)	PHY-524-RM	Research Methodology	Theory	4
<b>Total Credit Semester-I</b>					<b>20</b>



**Resolution No.4:** Considered and Approved.

**5. To introduce MOOC Certificate courses from SWAYAM platform for the S.Y.B.Sc and T.Y.B.Sc as per 2022 pattern.**

Dr. R. T. Sapkal suggested introducing 3 online certificate courses from SWAYAM, NPTL Platform & Courses in Physics by Prof. H.C. Verma (IIT Kanpur) for S.Y.B.Sc and T.Y.B.Sc. After successful completion of the above courses, students have to submit their passing certificates to the department to fulfill the credits of certificate course requirement.

**Resolution No. 5:** Considered and Approved.

**6. To discuss and incorporate the relevant feedbacks of the stakeholders (students, teachers, parents, alumni and employers) in the curriculum**

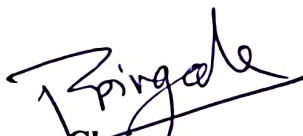
The Chairman initiated the discussion by highlighting the importance of incorporating feedback from stakeholders in the syllabus designing process. It was noted that their insights and suggestions would greatly contribute to creating a curriculum that aligns with the needs and expectations of the students. Hence, the BoS members reviewed the feedback and suggestions given by the stakeholders and incorporated the relevant suggestions into the curriculum of UG and PG syllabus.

**Resolution No. 6:** Considered and approved.

**7. Any other matter with the consent of Chairperson.**

There had not been any incidental issue.

The meeting of BoS in Physics was concluded with the vote of thanks by Dr. V.S. Mohite.

  
Chairman  
Board of Studies

  
IQAC  
Coordinator  
  
Coordinator

  
Principal

Internal Quality Assurance Cell  
Tuljaram Chaturchand College  
Arts, Science and Commerce,  
Baramati (Pune)-413102

