

PCCOE/AS&H/2025-26/257



Pimpri Chinchwad Education Trust's  
Pimpri Chinchwad College of Engineering  
Nigdi, Pune - 411 044



Minutes of Meeting: 12<sup>th</sup> Board of Studies on 1 December 2025

Department: Applied Sciences and Humanities (AS &H)  
Semester: II

Academic Year: 2025-26  
Date: 2<sup>nd</sup> December 2025

The 12<sup>th</sup> meeting of the Board of Studies of the Department of AS & H (PCCoE) was held on Monday at 01:30 pm in online mode and offline mode.

Link of BoS Meeting: <https://meet.google.com/yhr-zjsd-ueo>

The following External and Internal BoS members were present for meeting in online mode:

Sr. No.	Name	Designation
1.	Dr. Leena Sharma	Chairman
2.	Dr. Madhuri Purandare	SPPU VC Nominee
3.	Dr. Boopathy Gyanprakasm	Member
4.	Dr. Madhuri Gokhale	Member
5.	Dr. Mandar Sahasrabudhe	Industry Representative
6.	Dr. Mugdha Gadgil	Subject Expert
7.	Dr. Sanjivani Sonar	Member
8.	Dr. Sonali Kale	Member
9.	Dr. Mahadev Kadam	Member
10.	Dr. Sandip Patil	Member
11.	Dr. Shaziya Shaikh	Member
12.	Mrs. Minakshi Panchal	Member
13.	Mrs. Geetanjali Zambre	Member
14.	Mrs. Pooja Potdar	Member
15.	Mrs. Manjusha Devkule	Member
16.	Dr. Mahesh Kolte	Invitee
17.	Dr. P. K. Khanna	Invitee
18.	Dr. Amruta Kulkarni	Invitee
19.	Dr. Hari Damle,	Invitee
20.	Mr. Ambarsih Deshpande	Invitee
21.	Dr. Richa Srishti,	Invitee

Leave of absence was granted to following Members:

Sr. No.	Name	Designation
1	Mr. Kabeer Sukhani	UG Alumni
2	Dr. Rakesh Raut	Invitee
3	Dr. Suvarna Datar	Invitee

12/2025 / 11/27 / 50309

**Agenda for the 12<sup>th</sup> BOS Meeting was as follows:**

- 12.1: Confirmation of the minutes of the 11<sup>th</sup> BOS meeting held on 29 May 2025.
- 12.2: Minor Changes in the Course Outcomes (Postfacto)
- 12.3: Approval of M. Tech Course in Mathematics
- 12.4: Discussion on Curriculum Structure for Ac. Yr. 2026-27 for Courses under AS & H
- 12.5: Discussion on Syllabus Revision for Ac. Yr. 2026-27
- 12.6: Discuss the suggestions received in the External Academic Audit for various courses.
- 12.7: Any other points with the permission of the Chairperson.

The proceedings of the meeting were as follows:

**Welcome of all BoS members:**

Dr. Sonali Kale, BOS Coordinator welcomed all the members for the 12<sup>th</sup> BOS Meeting of the AS & H Department.

Dr. Leena Sharma Chairperson, BOS AS & H department, began the proceedings of the meeting

**The remarkable achievements of AS & H Department:**

- A. The AS&H Department, in collaboration with Arkelite Company, offered internships to final year Mechanical and E&TC students based on industry problem statements. Four E&TC students completed a two-month internship at Litex Electricals, Bhosari (Arkelite's sister concern).
- B. The AS&H Department strengthened internship activities by providing a platform to first year students, resulting in 47 students securing internships under the mentorship of 15 faculty members.
- C. A student team (Harshil Biyani, Aditya Rajput, Ankit Shah, Ved Jadhav, and Ansh Dudhe), mentored by Dr. Leena Sharma, won award across national hackathons, including top domain awards and runner-up positions at VIT AI Forum, INNOVIK, IEEE Innoquest 2025, SAMARTHA 2025, and SSIPMT Raipur.
- D. The faculty of AS&H achieved significant milestones that strengthen their personal profile and the Department.

**Discussions held in the said meeting as per Agenda:**

**12.1: Confirmation of the minutes of the 11<sup>th</sup> BOS meeting held on 28 May 2025**

The BOS members unanimously confirmed the following minutes of the previous meeting.

**12.2: Minors Changes in the Course Outcomes (Postfacto):**

Dr. Leena Sharma highlighted minor changes in the current curriculum for the courses ASH including MDM, and detailed discussions on these points will be taken up in the respective course meetings with respective BoS members. The detailed proposal is enclosed as **Annexure-1**.

**The BOS Members unanimously confirmed the 12.2 agenda point.**

### **12.3: Approval of M. Tech Course in Mathematics**

The meeting continued with a detailed discussion on the M. Tech. Program in Industrial Mathematics. The detailed structure for Academic Year 2026–27, including the Program Framework and Compliance, was reviewed. The meeting also covered the Program Objectives, Benchmarking with leading national and international institutions, and the constitution of an Advisory Board to guide academic and industry-oriented initiatives related to M. Tech course. The career opportunities and diverse professional pathways available to graduates of the M. Tech. program in Industrial Mathematics were highlighted additionally.

Dr. Madhuri Purandare raised a query regarding the degree to be awarded upon completion of the program, considering that the course will be offered under the engineering college. Dr. Leena clarified that the students will be awarded the degree of M. Tech. in Industrial Mathematics.

All members approved the curriculum and appreciated it.

**The BOS Members unanimously confirmed the 12.3 agenda point.**

### **12.4: Discussion on Curriculum Structure for Ac. Yr. 2026-27 for Courses under AS & H**

For the academic year 2026–27, a revision has been made in the course structure for Engineering Chemistry and Engineering Physics. The earlier pattern of **2 credits for Theory and 2 credits for Practical** has now been revised to **3 credits for Theory and 1 credit for Practical**. This change has been implemented due to the increased intake and the introduction of branch-wise syllabus modifications. The detailed proposal is enclosed as **Annexure–2**.

**The BOS Members unanimously confirmed the 12.4 agenda point.**

### **12.5: Discussion on Syllabus Revision for Ac. Yr. 2026-27**

In continuation of the above point, it was informed that the syllabus for **Engineering Chemistry and Engineering Physics** will be revised for the Academic Year 2026–27.

It was further noted that syllabus modifications are also proposed for the **MDM courses in the 7<sup>th</sup> semester** for the Academic Year 2026–27. The 7<sup>th</sup> semester under MDM includes the project component for the respective multidisciplinary minors. The proposed revision aims to ensure proper implementation of project-related policies. This change applies to the multidisciplinary minors in **UHV, Japanese, German, and English Literature**.

A detailed discussion regarding the proposed changes was conducted with the respective subject experts. The detailed proposal is enclosed as **Annexure–2**.

**The BOS Members unanimously confirmed the 12.5 agenda point.**

### **12.6: Discuss the suggestions received in the External Academic Audit for various courses:**

The BoS reviewed the observations communicated through the External Academic Audit for the courses as follows:

• A concern was raised regarding the 50-mark assessment structure for 1 and 2-credit courses and its implication on SGPA computation.

Dr. Madhuri Purandare clarified that SGPA computations are credit-based, and marks are normalized irrespective of whether the course is evaluated out of 50 or 100. Therefore, the 50-mark structure does not adversely affect SGPA calculations.

• The Auditor recommended restricting the laboratory experiment list to 12 experiments in curriculum.

Dr. Purandare suggested including 3 additional laboratory sessions to accommodate extra efforts and proposed that tutorials may also be incorporated within the laboratory component. Dr. Boopathy agreed with this suggestion.

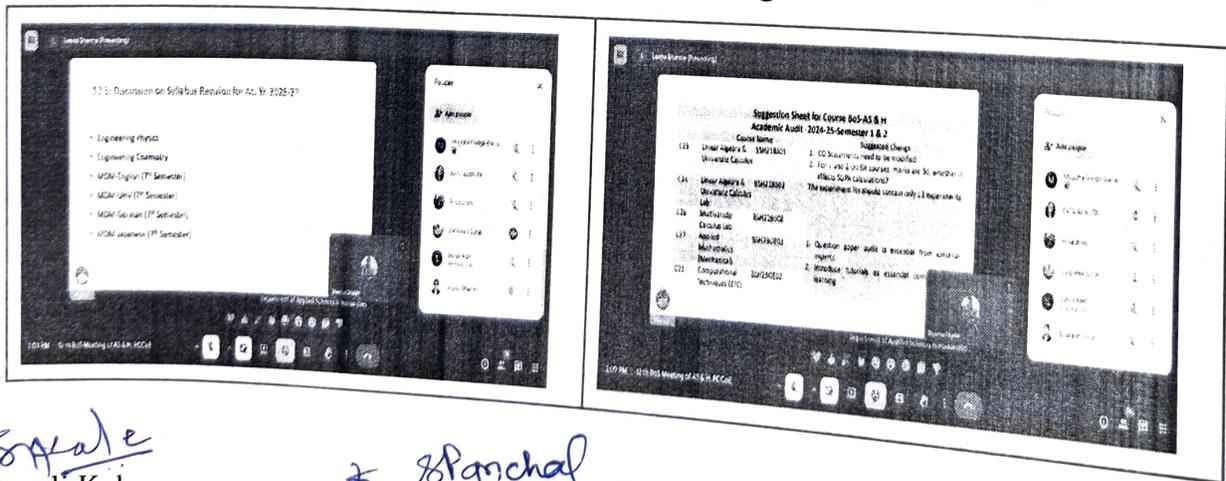
• It was emphasized that question paper audit by external experts is essential to ensure transparency and alignment of assessments with the defined Course Outcomes and Bloom's taxonomy

Dr. Leena Sharma clarified that the Dean Academics already conducts regular audits of the question bank and question papers to ensure quality and compliance.

**The BOS Members unanimously confirmed the 12.6 agenda point.**

The meeting ended with Vote of Thanks given by Dr. Sonali Kale, BoS Coordinator.

### Glimpses of BoS Meeting:



*S. Kale*  
Dr. Sonali Kale  
BoS Coordinator

*A. Vaze*  
Dr. Ashwini Vaze  
Autonomy Coordinator

*L. Sharma*  
Dr. Leena Sharma  
BoS Chairman, HoD, ASH

## **12.2: Minor Changes in the Course**

The detailed syllabus presentation was given by respective course coordinators and course team separately. All course team members were present for the meeting.

All course teams received valuable suggestions in framing syllabus and are helpful for ultimate growth of department curriculum as well.

### **Course wise discussion in the meeting:**

#### **1. Mathematics Courses:**

BoS meeting for Mathematics courses was conducted in online mode on 1<sup>st</sup> December 2025 at 1.30 pm. All course team members were present for the meeting.

Meet Link: <https://meet.google.com/yhr-zjsd-ueo>

After completion of the department meeting, a meeting for the Mathematics B. Tech courses started with external BoS member Dr. Madhuri Purandare. The BoS member Dr. Shaziya Shaikh presented the minor changes in the CO statements for all FY and SY Mathematics courses including the practical courses. The minor changes in CO statements of all Mathematics courses are discussed. There is no change proposed in the content of the syllabus of Mathematics courses for A.Y. 2026-27.

#### **2. AEC (Eng/Ger/Jap/Business story telling):**

BoS meeting for AEC courses were conducted with respective members and minor changes in COs statements for semester III and V are approved.

### Annexure -1

**Table shows changes in the current syllabus for courses under AS & H**

Sr. No.	Course Name	Course Code	Previous syllabus	Current syllabus	Remark (Mention approval of syllabus changes by BoS)
1	LAUC Lab	BSH21BS02	CO1: Develop MATLAB programs to solve problems related to matrices, differential calculus, and ordinary differential equations	CO1: Develop MATLAB programs for problems related to matrices, differential calculus, and ordinary differential equations.	Approved
			CO2: Prepare a well-structured technical Mini Project report and deliver an effective presentation with clarity and comprehensive understanding of the topic	CO2: Apply computational methods for real life and project based problems.	Approved
2.	MC Lab	BSH22BS08	CO1: Develop MATLAB programs to solve problems related to partial differentiation, integral calculus, multiple integrals, and Fourier series.	CO1: Develop MATLAB programs for problems related to partial differentiation, integral calculus, multiple integrals, and Fourier series.	Approved
			CO2: Prepare a well-structured technical Mini Project report and deliver an effective presentation with clarity and comprehensive understanding of the topic.	CO2: Apply computational methods for real life and project based problems.	Approved

3	Applied Mathematics	BSH23OE01 (Mechanical)	CO1: Apply descriptive statistical techniques for measures of variability of numerical data, Curve fitting, Correlation and Regression.		Approved
4	Engineering Chemistry Theory and Laboratory	BSH21BS05/ BSH22BS05 and BSH21BS06/ BSH22BS06	Course outcome for 1 Engg. Chem Laboratory: After completion of this course, the students will be able to, 1. Volumetric analysis for determination of quality of water. 2. Apply various instrumental methods for quantitative and qualitative chemical analysis. 3. Demonstrate the skill for synthesis of engineering materials. 4. Learn the chromatographic separation technique and impact of corrosion. 5. Explore mini projects which are relevant to societal and environmental issues, to develop research attitudes.	Course outcomes for Engg. Chemistry laboratory: Revised Chemistry laboratory course outcome as follows: After completion of this course, the students will be able to, 1. Analyze the quality of water by volumetric methods. 2. Apply various instrumental methods for quantitative and qualitative chemical analysis. 3. Demonstrate the skill for synthesis of engineering materials and understand the impact of corrosion. 4. Explore mini projects which are relevant to societal and environmental issues, to develop research attitudes.	1. Dr. Boopathy Gnanaprakasam through online G meet said changes in the structure and syllabus should not be frequent & the outcome of changes in syllabus is reflected after period of 2-3 years. 2. Dr. P. Khanna was present in offline BoS meeting suggested to include synthesis of conducting polymer polyaniline in Engg. Chem laboratory syllabus. 3. Course outcomes and Engg. Chemistry laboratory should reflect industry readiness and potential for start up.

5	AEC (Eng/Ger/Jap/ Business story telling)	Japanese	<p>Sem III- CO1-Recall the data of the concept of clock, calender</p> <p>SemV- CO1-Use active and passive forms interchangeably to explain processes or procedures.</p> <p>CO2-Expressing Opinions or Preferences.</p> <p>CO3- Understand the respect forms of give-and-take verbs and purpose</p> <p>CO4-Describe the hypothetical situation.</p> <p>CO5-Apply knowledge of 'Causative verbs' and honorific expressions in real life situations.</p>	<p>Statement changes</p> <p>Sem III- CO1:Understand the data of the concept of clock, calendar.</p> <p>SemV- CO1- Use active and passive forms interchangeably to explain processes or procedures.</p> <p>CO2- Expressing Opinions or Preferences.</p> <p>CO3-Understand the respect forms of give-and-take verbs and purpose.</p> <p>CO4- Describe the hypothetical situation.</p> <p>CO5-Apply knowledge of 'Causative verbs'</p> <p>CO6- Demonstrate correct use of Japanese honorific and humble expressions (keigo) in culturally appropriate everyday communication.</p>	
6	Universal Human Values (MDM) Human Psychology: Realising Human Potential	BSH23MD19	CO1-Explain the basic concepts of psychology and efforts made to understand human psychology	CO1-Discuss the foundational concepts of psychology and the key efforts to understand human psychology.	APPROVED

7	Human Values In Madhyasth Darshan	BSH24MD20	CO1- Explain the basic concepts of Madhyasth Darshan	CO1-Discuss the basic concepts of Madhyasth Darshan	APPROVED
8	Vision for Humane Society (VFHS)	BSH25MD21	CO1-Explain the basic aspirations of Human Being	CO1-Apply basic human aspiration concepts in practical context	APPROVED
9	Human Economics	BSH26MD23	CO1-Explain the basic concepts in human economics and the efforts made to understand human economics	CO1-Comprehend foundational human economics concepts and the major efforts undertaken to study human economic behavior.	APPROVED

## Annexure-2

### **12.4: Discussion on Curriculum Structure for Ac. Yr. 2026-27 for Courses under AS & H including MDM**

### **12.5: Discussion on Syllabus Revision for Ac. Yr. 2026-27**

#### **1. Engineering Chemistry: Theory and Laboratory:**

The Board of Studies (BoS) meeting for the Engineering Chemistry: Theory and Laboratory course was conducted in a hybrid mode, including both online and offline participation.

Dr. Boopathy Gnanaprakasam, BoS member, attended the meeting via Google Meet, while Dr. P. K. Khanna from DIAT, Pune joined the discussion in person on 1<sup>st</sup> December 2025.

The meeting included the discussion on minor changes in course outcomes of theory course Engineering Chemistry for Ac. Yr. 2025-26.

BoS members were agreed for this modification and revised COs will be reflected in curriculum.

The discussion was continued on revised branch-wise syllabus for the Ac. Yr. 2026–27.

#### **2. Engineering Physics: Theory and Laboratory:**

**Agenda:** Discussion on Proposed Engineering Physics Syllabus for the Academic Year 2026–27

**Date:** 01<sup>st</sup> December 2025, Time: 2:30-3:00 pm

**Mode:** Online (Google Meet)

**Google Meet Link:** <https://meet.google.com/wtd-gysp-btb>

The meeting was convened online via Google Meet on 1<sup>st</sup> December 2025 at 2:30 pm and concluded at 3:00 pm. Dr. Arun Khalkar, Course Coordinator, welcomed the Board of Studies (BoS) members and introduced Dr. Mandar Sahasrabudhe BoS member with syllabus presentation.

The committee reviewed the revised Engineering Physics syllabus proposed for Mechanical, Civil, E&TC, Computer, Comp-R, IT, and AIML branches. Members acknowledged the structured branch-specific approach and appreciated the alignment with contemporary technological advancements.

Members noted that the syllabus has been effectively customized as per the domain needs of each branch. The branch-wise separation of content (Mechanical & Civil; E&TC; Computer/IT/AIML) was recognized as a major positive change. The syllabus was appreciated for serving as a strong prerequisite foundation for higher-level engineering and emerging technology courses.

#### **Discussion on Engineering Physics (Mechanical & Civil)**

Members agreed that the coverage of Thermal Physics, Vibrations, Fluid Mechanics, Photonics, Quantum Physics, Nanoscience, and NDT is appropriate for these branches.

Suggestions were made to further strengthen practical relevance by including:

Physical properties of materials, Thermal properties in engineering applications, Experiments demonstrating overhead water tank functioning.

Additional laboratory activities related to fluid mechanics

### **Discussion on Engineering Physics (E&TC)**

Members appreciated the inclusion of Semiconductor Physics, Optoelectronics, Electromagnetism, Quantum Physics, Superconductivity, and Nanoscience in the branch-specific syllabus.

It was suggested to incorporate more device-oriented content such as:

Transistors and OPAMP fundamentals

Digital electronics basics

Sensor technology and applications

Additional practical components demonstrating real-world communication and instrumentation systems

### **Discussion on Engineering Physics (Computer, AIML, IT, Comp-R)**

Members highlighted that the syllabus correctly emphasizes quantum computing, wave mechanics, neural networks (physics perspective), photonics, and nanoscience, making it highly relevant for computational branches.

To further strengthen computational skills, suggestions included:

1. Adding topics on digital electronics
2. Analog-to-digital conversion fundamentals
3. Lab experiments involving digital signal processing (DSP)
4. Control programming and system-level interfacing experiments

### **Laboratory Component Discussion**

The committee reviewed the Engineering Physics Laboratory syllabus and expressed satisfaction with the range of experiments. Members encouraged the inclusion of branch-specific mini-projects to enhance interdisciplinary learning and application-based understanding.

BoS members expressed unanimous support for adopting the revised and branch-aligned Engineering Physics syllabus with the above suggestions incorporated where feasible.

The committee agreed that the revised syllabus significantly enhances the relevance, clarity, and applicability of Engineering Physics across engineering disciplines.

### **Discussion on syllabus revision for MDM courses for VII<sup>th</sup> semester**

Japanese MDM BOS was conducted in online mode on 2nd December at 1:30pm. Dr. Hari Damle and Ms. Swati Bhagwat were the members who joined the meeting. The agenda of the meeting was to discuss the syllabus of Japanese-MDM Sem VII. Earlier it was lab oriented and then we discussed proposed projects. The detailed changes are listed in Annexure 2-I.

**Annesure-2-I**

<b>s. no.</b>	<b>Course</b>	<b>Course Code</b>	<b>Previous syllabus</b>	<b>Current syllabus</b>	<b>Remark</b>
1	Holistic Vision of Life	BSH27MD24	Change in the syllabus		Approved
2	Introduction to English Literature	BSH23MD01	<p><i>Henry V</i> by William Shakespeare (Play)</p> <p>Inspiring Leadership- Strategic Thinking- Diplomacy and Negotiation- Communication and Persuasion- Humility and Empathy- Legacy and Vision</p> <p><i>Heart of Darkness</i> by Joseph Conrad (Novel)</p> <p>Colonialism and Imperialism- Darkness and Light- Moral Ambiguity- Alienation and Isolation- The Human Capacity for Evil</p>	<p>“Julius Caesar” by William Shakespeare (Play): Inspiring Leadership- Strategic Thinking- Diplomacy and Negotiation- Communication and Persuasion</p>	Approved

3	Exploring Literature Independently	BSH27MD06	<p>All the projects suggested in the updated curriculum were found to be appropriate, and it was agreed that the overall complexity level can be reduced to make them more manageable for students.</p> <p>Additional projects that are not highly complex but result in presentable outputs may be incorporated, especially those based on literary themes. It was agreed that projects proposed by students, even if not included in the original list, should be accepted as long as they meet academic guidelines. The Term Work (TW) project marks, totaling 100, will be divided into five stages of 20 marks each.</p> <p>The stages should include components such as extensive reading and other relevant academic processes. The overall curriculum and modified Course Outcomes (COs) were reviewed and approved with minor changes.</p>	Approved
4	MDM (German)	BSH27MD12	<p>The list of technical projects was already discussed with an expert from industry before BoS meeting. The problem statements revised and discussed with Academic expert.</p>	Approved
5	MDM (Japanese)	BSH27MD18	<p>The Syllabus of semester seven has been discussed, the problem statements which can be given to students suggested by experts and these were incorporated in syllabus.</p>	Approved