



PimpriChinchwad Education Trust's
PimpriChinchwad College of Engineering
Nigdi, Pune – 411 044

Minutes of Meeting: Board of Studies on 09 May 2024

Department: Applied Sciences and Humanities (AS &H) Academic Year: 2024-25

Semester: I

Date: 14 May 2024

The meeting of the Board of Studies of the Department of AS & H (PCCoE) was held on 09 May 2024, Thursday at 10:00 am through offline and online mode.

The following BoS members were present for meeting in offline mode:

| Sr. No. | Name | Designation |
|---------|--|-------------------------|
| 1 | Dr. Sanjivani Sonar HoD, (AS & H, PCCOE) | Chairman |
| 2 | Dr. Priya Joshi | Member |
| 3 | Dr. Sonali Kale | Member |
| 4 | Dr. Mahadev Kadam | Member |
| 5 | Dr. Sandip Patil | Member |
| 6 | Dr. Shaziya Shaikh | Member |
| 7 | Mrs. Minakshi Panchal | Member |
| 8 | Mrs. Geetanjali Zambre | Member |
| 9 | Mrs. Pooja Potdar | Member |
| 10 | Mrs. Priyadarshini Ranbhise | Member |
| 11 | Mrs. Manjusha Devkule | Member |
| 12 | Dr. Madhuri Purandare Professor and Head of the Department, Basic Sciences & Humanities, MKSSS Cummins College of Engineering, Pune | SPPU VC Nominee |
| 13 | Dr. Boopathy Gnanaprakasam, Associate Professor & Deputy Chair, Chemistry, IISER, Pune | Subject Expert |
| 14 | Dr. Mandar Sahasrabudhe, General Manager, Arklite Speciality Lamps Pvt. Ltd. Pune | Industry Representative |

The following Invitees were present for meeting in offline mode:

| Sr. No. | Name | Designation |
|---------|--|-------------|
| 1 | Mr. Mahesh Kore Assistant Professor, PVG's COET & GKPIOM 44, Vidyanagari, Parvati, Pune – 411009 | Invitee |
| 2 | Dr. Hari Damle Founder member of Japanese Language Teachers' Association (JALTAP), Pune | Invitee |
| 3 | Ms. Swati Bhagwat Partner of 'Proceed Technologies | Invitee |

The following BoS members and Invitee were present for meeting through online mode:

Link of meeting: <http://meet.google.com/cyy-dtev-akp>

| Sr. No. | Name | Designation |
|---------|--|----------------|
| 1 | Dr. Madhuri Gokhale, Professor, Fergusson college, Pune | Subject Expert |
| 2 | Mr. Kabeer Sukhani Consultant, Accscient Digital, Pune | College Alumni |
| 3 | Dr. Rakesh Raut Associate Professor, Indian Institute of Management, Mumbai | Invitee |
| 4 | Dr. Suwarna Datar, HoD and Associate Professor, Department of Applied Science, Defence Institute of Advanced Technology, Pune - 411 025 | Invitee |
| 5 | Dr. Amruta Kulkarni HoD, Assistant Professor Department of German, Fergusson College, Pune (Autonomous) | Invitee |
| 6 | Mr. Vinay Chidri, Advisor, Centre for Universal Human Values, Maharashtra Institute of Technology, Chhatrapati Sambhajnagar | Invitee |
| 7 | Dr. Mahesh Kolte, HoD and Professor, Department of E & Tc Pimpri Chinchwad College of Engineering, Pune | Invitee |
| 8 | Mrs. Prajakta Pimpalshende Assistant Professor and HoD Modern Law College, Pune | Invitee |

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| 9 | Dr. Gauri Hardikar Senior Vice-President, World Curriculum | Invitee |
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Leave of absence was granted to following Members:

| Sr. No. | Name | Designation |
|---------|---|-------------|
| 1. | Dr. Mugdha Gadgil Associate Professor, Dept. of Sanskrit and Prakrit, Savitribai Phule Pune | Invitee |
| 2. | Dr. Leena Sharma, Professor, Department of AS & H, Pimpri Chinchwad College of Engineering, Pune | Member |
| 3. | Dr. Hanmant Nayane, Department of AS & H, Pimpri Chinchwad College of Engineering, Pune | Member |

Agenda for the meeting was as follows:

1. Welcome of all BoS members.
2. Approval for syllabus under AS & H Department.

Meeting started at 10.00 am at conference hall, AS & H department by the welcome note by HOD, AS & H, Dr. Sanjivani Sonar, with reference to online meeting for Indian Knowledge System (IKS) syllabus confirmation.

AS & H department has floated Open Elective, Multidisciplinary Minors (MDM) with basic courses. Credit distribution for Basic Sciences 50% practical + 50% Theory Physics, Chemistry & Mathematics.

Dr. Sonar presented detailed presentation including

- Vision, Mision, Quality Policy of PCET,
- BoS structure of AS & H department,
- Curriculum structure for Ac. 24-25,
- Teaching and evaluation scheme

The Dr. Sonar urged BoS members to give guidelines for evaluation tools, peadogogy, CO & PO mapping, teaching approach, contents & co relevance.

The guests were facilitated by Dr. Sonar with Thank you note.

Courses under Department of Applied Science and Humanities (AS & H) are listed as:

Basic Science Courses (BSC):

- Linear Algebra & Univariate Calculus: Theory and Laboratory
- Multivariate Calculus: Theory and Laboratory
- Engineering Physics: Theory and Laboratory
- Engineering Chemistry: Theory and Laboratory

Ability Enhancement Course (AEC):

- AEC-1(Eng/Ger/Jap/Business story telling)
- AEC-2: PDT

Co-Curricular Courses (CC):

- Lifeskill-1/lifeskill-2

IKS

- Indian knowledge system

Value Education Course (VEC-I)

- Universal Human value

Value Education Course (VEC-II)

- Constitution of India

Open Elective Courses:

- Mathematical Optimization
- Statistics and Probability
- Advance Material and Characterization
- Neural Network and fuzzy logic Control
- Numerical Techniques in Engineering

Entrepreneurship/Economics/Management Course (EEM-I)

- Business studies for engineers

Entrepreneurship/Economics/Management Course (EEM-II)

- Project Management
- Fostering Entrepreneurship and Startups
- Business finance for engineers
- Designing Thinking & Innovation Management

Multidisciplinary Minor (MDM):

- English Literature
- German
- Japanese
- UHV

Professional Development Training: PDT

***List of Courses with Course Code, Type of Course as Annexure 1 is attached**

Discussions held in the meeting:

The detail syllabus presentation was given concerned course coordinators and course team separately at allotted venue. 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

- Linear Algebra & Univariate Calculus (LA&UC) Theory and Laboratory,
- Multivariate Calculus (MC) Theory and Laboratory
- Open elective courses under Mathematics:

The Board of studies meeting for courses of Mathematics was held on 09 May 2024, 10:00 am at conference hall of Department of Applied Sciences and Humanities (AS&H), with subject expert Dr. Madhuri Purandare, Head of Mathematics Department, Cummins College of Engineering, Pune. Open elective courses under Mathematics with LAUC and MC are presented and discussed by team.

The proposed changes and suggestions for Mathematics courses are discussed in the meeting.

Following are the points discussed;

- Course syllabus and its contents were discussed in detail.
- Few Course Outcomes need to be re-defining as per the bloom's level and question framing, it should be measurable.
- Text book must include at least one foreign author.
- For LA&UC and MC courses list of experiments should be separated as per tutorials and laboratory.
- Tutorials are essential for all mathematical courses.
- Evaluation mode for open elective courses may be project based on real life problems.

The subject experts appreciated the detailing of the courses and varieties of courses.

2. Engineering Chemistry: Theory and Laboratory:

The meeting for Engineering chemistry was held with BoS member/Chemistry expert- Dr. Boopathy Gyanprakasm, IISER, Pune at allotted venue. Dr. Priya Joshi-Course coordinator, Chemistry presented detail syllabus of chemistry for theory as well as laboratory.

- Course curriculum, structure and evaluation scheme of theory and laboratory was introduced in the meeting.
- Unit wise curriculum was explained to the subject experts with intention of their inclusion.
- Engineering Chemistry has relevance in industries, especially pharmaceutical industries.
- Subject experts suggested adding topics related to medicinal drugs or pesticides.
- Some topics related to chemistry behind various engineering processes occurring in industries should be included.
- Subject expert appreciated the syllabus and found the course outcomes satisfactory.
- Regarding mode of conduction of internal evaluation, subject expert suggested to include written exam-based tools for evaluation and not any other tool, for adequate practice of students for end term exam (since there is no midterm exam).
- Course outcomes for laboratory were found satisfactory by the subject expert and in line with the syllabus.

- Subject expert appreciated the types of experiments included in the laboratory and admired the inclusion of **Mini project component** in the syllabus which will inculcate the innovation and research attitude in the students.

3. Engineering Physics: Theory and Laboratory:

Dr. Sonali Kale-Course Coordinator of Engineering Physics welcomed BoS members-Dr. Mandar Sahasrabudhe-Industry Representative, (present in offline mode), and Invitee, Dr. Suvarna Datar (joined online).

Mr. Dattatraya Anarse introduced all faculty members of Engineering Physics and presented the proposed syllabus of Engineering Physics Theory and Laboratory.

- The presentation covered course codes, course outcomes, weightage of marks, marking scheme, total units and titles, number of lectures, and exam scheme.
- Units included Semiconductor Physics, Quantum Mechanics, Magnetism and Superconductivity, and Introduction to Nanoscience are discussed content wise.
- Dr. Sonali Kale introduced Sensor topic which can be included as part of Unit 1. Experts were also agreed for this as sensor topic is necessary for engineering students for their future study and also application-based topic. Suggestions were made to include the introduction and basics of sensors in Unit 1. In addition to this, Dr. Suvarna Datar suggested Arduino-based and sensor-related experiments in laboratory sessions. By considering the availability of infrastructure and experimental set ups, lab sessions are planned and appreciated by experts also. The lab sessions are open ended and also application based for students.
- Dr. M. B. Kadam presented syllabus of Advanced Materials & Characterizations as open elective for second year. The presentation covered course codes, course outcomes, weightage of marks, marking scheme, total units and titles, number of lectures, and exam scheme. Suggestions were made to restructure the sequence of topics and remove topics already covered in Engineering Physics theory. Additionally, experts suggested including topics on polymer composite materials as this syllabus is combined with Engineering Chemistry.

The syllabus is modified and finalized as per suggestions.

4. AEC (Eng/Ger/Jap/Business story telling):

English:

- The courses were presented by Dr Sandeep Patil.
- Overall content was approved by the expert with a few changes such as the grammar and vocabulary part to be included in second unit titled 'Writing Skills'.
- It was suggested to reduce some sub topics such as business phrases and idioms, types of report.
- Business Storytelling course, Indian Knowledge System (IKS), Constitution of India were approved without any changes.

Course: English Literature:

The courses were presented by Dr Sandeep Patil.

- Overall content was approved by the expert with a few minor changes.
- In the course Introduction to Literature, it was suggested to remove the text 'The Heart of Darkness'

- It was suggested to remove or reconsider the text 'Waiting for Godot' from the course Contemporary Literature and Society.
- It was suggested to change the title of fifth course in the MDM from Mastering Discourse Analysis to Exploring Literature Independently.
- Overall the external expert appreciated the curriculum and introduction of MDM in professional institute like PCCOE.

Course: AEC-German

- Mrs. Pooja Potdar welcomed the subject expert and the BoS invitee Dr. Amruta Kulkarni in the online meeting.
- The course curriculum, teaching scheme and evaluation scheme was explained to the subject expert.
- The subject expert appreciated the content of the syllabus and suggested modifications wherever necessary, e.g. reframing CO3
- The subject expert appreciated the overall syllabus and the planned lab activities. She was satisfied with the books mentioned as text books and reference books. In the e-resource she suggested adding one more link of Easy German.

Course: AEC-Japanese

- Mrs. Geetanjali Zambare welcomed the subject experts Dr. Hari Damle and Ms. Swati Bhagwat.
- Course curriculum and Practical activities were explained for semester I/II to the subject experts.
- Unit wise curriculum was explained to the subject experts with the reasons behind the contents.
- The subject experts suggested the vocal exercise activities for improving student's Japanese pronunciation.
- The subject expert also promised that he would conduct guidance sessions to help the students.
- The subject experts appreciated the detailing of the subject and planned lab activities.

Course: Life skill - 1/ life skill – 2

- A detailed syllabus for Life Skills I and II was discussed and presented to the subject expert.
- Dr. Gauri suggested including summative assessments such as portfolios or reflective journals to evaluate students' learning outcomes.
- Dr. Gauri recommended incorporating various activities and games into the units to enhance student engagement and learning.
- She appreciated the entire syllabus and proposed organizing a training session for the faculty to ensure effective implementation.
- Dr. Gauri also suggested some resource links to further support students' learning and understanding of the subjects.

Course: Universal Human Value (UHV)

- Ms. Manjusha Devkule welcomed the subject experts and the BoS invitees Mr. Vinay Chidri and Mr. Mahesh Kore.
- The course curriculum, teaching scheme and evaluation scheme was introduced to the subject experts.

- Subjects' experts found the course outcomes satisfactory whereas they recommended to reframe CO2
- Subject experts suggested documenting the guidelines for Internal Evaluation.
- Subject experts appreciated the overall syllabus

Course: Management: EEM

Mrs. PriyaRanbhise, Course coordinator for Management courses was presented syllabus.

Dr. Rakesh Raut, IIM, Mumbai was external member as Invitee.

The discussion on the proposed curriculum structure of EEM courses for S. Y. B.Tech (Semester III and IV) was held in BoS meeting.

- Discussion on Syllabus including Course outcomes, Evaluation scheme, Text books & Reference books.
- Finalization of syllabus along with incorporations of Recommendations and Suggestions
- Board Members have appreciated the scheme and structure in general and also mentioned more Case –study based learning should be organized in order to mould the students as per the industry expectations.
- All the five Courses which include One compulsory subject and four specializations were highly appreciated which are a lot trending in the industry right now. Suggestions given by BOS Externals Members for adding and editing slight content in the various subjects.

Course wise suggestions given by externals for revising syllabus are as follows:

- To add a point of Latest Case Studies on Strategic Management – for course Business Studies for Engineers.
- To add a point Tools of Design Thinking in Unit 2- Course: Designing Thinking & Innovation Management
- To add points like: Regulatory Institutions: RBI NABARD, SEBI - Organization and Objectives in Unit 4- Course-Business Finance for Engineers
- Case –study based learning to be implemented by incorporating Latest case studies based on Strategic Business Management in the course of Business Studies for Engineers.
- Domain specific Tools of Design Thinking to be taught as per all the Branches in the Course of Design Thinking and Innovation Management.
- Inclusion of the concept of Regulatory Institutions in the Course of Business Finance for Engineers.

After discussion with BoS Members, the changes in the syllabus have been agreed upon and are incorporated in the syllabus proposed for III & IV Semester students for the academic year 2024-25.

Courses under MDM

The discussion was held for Multidisciplinary Minors (MDM) under department of AS & H was also discussed in detail.

The courses like English literature, Japanese, German, UHV are presented by course team. Course wise discussions are in detail:

Course: German:


- Mrs. Pooja Potdar welcomed the subject expert and the BoS invitee Dr. Amruta Kulkarni in the online meeting.
- The MDM-German program was discussed in detail. The course curriculum, teaching scheme and evaluation scheme was explained to the subject expert. The syllabi from semester III to semester VII were presented.
- The subject expert appreciated the content of the syllabi and suggested modifications wherever necessary, e.g. adding emails regarding grievances in semester V under writing skills.
- The subject expert appreciated the overall syllabi and the planned lab activities. She was satisfied with the books mentioned as text books and reference books. In the e-resource she suggested adding one more link of Easy German.


Course: Japanese

- Mrs. Geetanjali Zambare welcomed the subject experts Dr. Hari Damle and Ms. Swati Bhagwat.
- Course curriculum and Practical activities from semester III to semester VII were introduced to the subject experts.
- Unit wise curriculum was explained to the subject experts with the reasons behind the contents.
- Experts appreciated the efforts put in drafting the syllabus.
- The subject expert suggested adding japanese titles along with english language.
- A S & H HOD, Dr. Sonar requested to suggest reference books to enrich the departmental library.

Course: Universal Human Values (UHV):

- Ms. Manjusha Devkule welcomed the subject experts and the BoS invitees Mr. Vinay Chidri and Mr. Mahesh Kore.
- The course curriculum, teaching scheme and evaluation scheme was introduced to the subject experts.
- Subject experts suggested documenting the guidelines for both Internal Evaluation & End Term Examination.
- Subject Experts proposed organizing a training session for the faculty to ensure effective implementation
- Both the subject experts appreciated the detailing of the syllabus and the planned lab activities.


Dr. Sonali Kale
Dr. Amruta Patil
BoS Incharge


Dr. Priya Joshi
Autonomy Coordinator


Dr. Sanjivani Sonar
BoS Chairman