	Pimpri Chinchwad Education Trust's **Pimpri Chinchwad College of Engineering**	

Minutes of Meeting: 10th Board of Studies on 22nd May 2025

Department: Computer Engineering **Academic Year**: 2024-2025 **Semester: II**

Date: 22/05/2025

The 10th meeting of the Board of Studies of Computer Engineering and Computer Engineering (Regional Language) PCCoE was held on Thursday 22/05/2025 at 11:00 am in online mode.

Following members were present:

Sr. No	Name	Designation
1.	Prof. Dr. Pramod Patil	Dean, Faculty of Science & Technology, SPPU Pune VC Nominee, SPPU (Computer Engineering (Regional Language)
2.	Dr. Geetanjali Kale	Associate Professor, Department of Computer Engineering, SCTR's PICT, Pune.
3.	Dr. H. S. Guruprasad	Professor, BMS College of Engineering, Bangalore, Karnataka, India
4.	Dr. Aamod Sane	Professor, Computer Science, Flames University, Pune
5.	Dr. Abhijat Vichare	Abhijat Research and Software Consultant, System Software
6.	Mr. Rahul Kulkarni	Co-Founder DoNew Innovations LLP, Pune
7.	Mr. Ronald Mascarenhas	Senior Solution Consultant at SAS Alumnus Representative
8.	Dr. Sonali Patil	Professor & Head, Comp Engg.
9.	Dr. Rachana Patil	Head, Comp Engg.(Regional Lang.)
10.	All Internal BoS Member	BoS Member

Leave of absence was granted to following Members and Invitees:

1.	Mr. Manoj Apte	Global Head - Learning & Development, Persistent University. Persistent Systems
2.	Dr. O. P. Vyas	Professor, Department of Information Technology, Indian Institute of Information Technology – Allahabad

Agenda for the meeting: -

1. TY Curriculum Structure
2. Program Elective Courses
3. Open Elective Courses
4. Internship of 12 credits
5. Advanced Learner
6. Flexible Exam Scheme
7. Minor Changes in FY, SY, B.Tech, and M.Tech courses
8. Vision & Mission of Computer Regional
9. Vote of Thanks

Following points were discussed during the meeting:

Welcome and Introduction of BoS Members

1. On behalf of the Computer Engineering department, Dr. Mubin Tamboli welcomed all the BoS members. He introduced all external BoS members.
2. Dr. Mubin Tamboli handed over to Dr. Sonali Patil, Head of the Department and BoS Chairman for further proceedings. Dr. Sonali Patil welcomed all the members and gave a brief introduction about the department. She highlighted the previous BoS meeting agenda and the resolutions of the 9th BoS meeting. The minutes of the 9th BoS meeting got confirmed. After she handed it over to Dr. Mubin Tamboli, Autonomy coordinator to start with the agenda points.

BoS 10:01: Proposed T.Y. B.Tech Curriculum Structure

Dr. Mubin Tamboli presented the T. Y. B Tech curriculum structure and outlined the syllabus for the courses under this structure. Specifically, he detailed the syllabus structure for the fifth and sixth semester. Fifth Semester course structure consist of four program core courses, one program elective, one open elective and multidisciplinary minor; where three courses are theory cum practical courses. Sixth semester course structure consist of three program core courses, two program elective courses, multidisciplinary minor courses and one vocational skill enhancement course where three courses are theory cum practical courses. Self-learning hours are added in structure. He also shared that self-learning contents are added to few courses.

The forum was open for discussion.

Discussions:

1. Dr. Abhijat Vichare highlighted the importance of aligning self-learning content with the course structure, emphasizing the need to ensure these topics support course objectives and enhance core teaching. Dr. Sonali Patil explained, the department has consciously allocated self-learning hours in selected courses. Topics under self-learning content are curated to

supplement emerging trends, bridge theory-practice gaps, and stimulate independent learning among students.

2. All the BoS members appreciated the department's proactive step in introducing self-learning hours. He encouraged faculty to continue updating the self-learning hours content regularly to match industry and research advances and promote student autonomy in learning.
3. Dr. Sonali Patil shared that self-learning hours are added to first year and second year curriculum also.
4. Dr. Mubin Tamboli provided insights into the structure and delivery of elective courses and VSECs. He gave a concise overview of the syllabus structure under the autonomous curriculum, highlighting distribution of credit hours across core, elective, and skill enhancement courses.

Resolution R-BoS:10:01: The BoS appreciated and approved the addition of self-learning hours in curriculum structures of Computer Engineering and Computer Engineering (Regional Language).

BoS: 10: 02 Program Elective Courses and Vocational Skill Enhancement Course

Dr. Mubin Tamboli presented the list of Program Elective Courses in Semester V and Semester VI and Vocational Skill Enhancement course offered in Semester VI. After presenting the list one by one course coordinator presented their courses from program elective and vocational skill enhancement courses.

Semester V Program Elective Courses-1

A. Computer Graphics and Gaming (Presented by Dr. Rachana Patil)

1. Dr. Amod Sane wanted to know what exactly the students would be seeing or interacting with during the Game Design and Development lab sessions. Dr. Rachana Patil clarified that students would be engaged in designing and developing games on the computer, where they will work on visual elements, logic, and interactivity using tools such as state machines and relevant development platforms. She explained that students would not only code but also visually experience how the game elements behave in real-time, providing a comprehensive learning experience.
2. Mr. Rahul Kulkarni emphasized the importance of incorporating state machines in the Game Design and Development course, particularly within lab assignments.
3. Dr. Geetanjali Kale suggested actively to incorporate open-source tool with vast capabilities suitable for Game Design and Development. She mentioned that numerous research papers are available focusing on algorithms to improve performance, making it a valuable platform for both learning and research.

4. Dr. Gururprasad suggested designing two types of assignments: one set where students can utilize tools like ChatGPT and DeepSeek to enhance their learning, and another set where such AI tools would not be effective or would fail to generate complete responses.

B. IoT and next generation Network (Presented by Mrs. Smita Khairnar)

1. Dr. Amod Sane suggested rethinking and reframing the assignments to enhance their relevance and alignment with real-world IoT applications. He emphasized that assignments should challenge students to apply concepts in practical and innovative ways rather than sticking to routine or theoretical tasks.
2. Mr. Rahul Kulkarni appreciated the syllabus designed, and recommended increasing the depth of the content by incorporating topics that target the higher levels of Bloom's Taxonomy. He inspired activities that boost higher-order thinking through critical analysis and informed decisions in IoT.
3. Dr. Pramod Patil appreciated the course contents and suggested to include security aspect in IoT course syllabus. He highlighted that students should gain a clear understanding of fundamental concept of IoT.
4. Dr. Abhijat Vichare and Mr. Rahul Kulkarni highlighted the opportunity to enhance the curriculum by incorporating a comprehensive systems design course covering all key aspects.

C. Web Technology (Presented by Dr. Madhura Kalbhor)

1. Mr. Rahul Kulkarni highlighted the challenge of effectively integrating AI in the curriculum. He suggested allowing AI-assisted assignment submissions and assigning the same task across three frameworks to help students understand when to use Angular vs. React, promoting deeper practical learning.
2. Dr. Sonali Patil proposed conducting a workshop and sought guidance from Dr. Amod Sane for its effective planning and execution.

Semester VI Program Elective Courses-2

D. Deep Learning (Presented by Dr. Swati Shinde)

1. Mr. Rahul Kulkarni suggested ensuring concrete, tangible outputs from students, such as implementing a translator model. He emphasized the importance of incorporating activities that involve reading and interpreting recent research papers based on both application and comprehension of modern deep learning concepts.

E. Blockchain Technology (Presented by Dr. Sonali Patil)

1. Mr. Rahul Kulkarni suggested incorporating real-world applications/ case studies in the course
2. Dr. Sonali Patil assured that this element would be integrated into the refined curriculum.

F. User Interface Design (Presented by Mr. Rahul Pitale)

1. Mr. Rahul Kulkarni observed that the current structure lacks depth in UI/UX and system design. He strongly recommended including foundational research papers from "Magic Ink" by Bret Victor to enhance conceptual understanding.
2. He also suggested incorporating Playwright as a tool for UI testing to give students hands-on exposure. He encouraged collaboration with MIT School of Design to help students gain a more comprehensive and practical understanding of UX principles.

Semester VI Program Elective Courses-3

G. Cloud Computing (Presented by Dr. S. Ambala)

1. Mr. Rahul Kulkarni appreciated the overall structure and provided key suggestions to enhance its practical relevance. He recommended integrating advanced tools available on cloud platforms.
2. Dr. Sonali Patil mentioned that AWS is already available at the institute level.

H. Cyber Security and Forensics (Presented by Dr. P. Game)

1. Mr. Rahul Kulkarni suggested including practical, up-to-date security topics and the process of reporting vulnerabilities to platforms.
2. He emphasized hands-on exposure to security assessment techniques and understanding how these modern security interfaces operate.

I. Image and Video Processing (Presented by Ms. Harshada Mhaske)

1. Mr. Rahul Kulkarni suggested incorporating tools for handling image streaming scenarios and including research papers that focus on accuracy in real-time object detection. He recommended increasing the complexity of assignments to make the course more challenging and engaging for students.

Semester V Program Elective Courses VSEC

J. Full Stack Development

1. Mr. Ganesh Kadam presented the course structure and evaluation scheme. He presented the detail course content.

2. After getting the details of course content Mr. Rahul Kulkarni mention that the some of the course content of Web Technology repeated in vocational skill enhancement course. He suggested to avoid such repetition.

Resolution R-BoS:10:02:

BoS member appreciated the course content and approved. For few courses the contents are updated as suggested by the members. The Web Technology course replace with Data Mining and Warehouse course and as per suggestion given by members instead of User Interface Design Course "System Design for UI & UX" course will be introduced.

BoS: 10: 03 Open Electives Courses for Semester V

Dr. Mubin Tamboli shared the open elective courses offered by other department to computer engineering and computer engineering (Regional Language) students. He also shared those three courses offered by computer engineering department as follow.

1. Digital Marketing (Open for all branches)
2. Cryptocurrency (Open to all branches)
3. Data Security Resiliency and Governance (Open to Comp/ Comp (Reg.)/ IT/ AIML branches)

And then every course coordinator of the above courses presented their courses. Mr. Rahul Kulkanri suggested that the cryptocurrency is not legal in India so it would be better to avoid such course.

Resolution R-BoS:10:03:

The computer engineering department is offering following courses which were approved by members.

1. Digital Marketing (Open for all branches)
2. Data Security Resiliency and Governance (Open to Comp/ Comp (Reg.)/ IT/ AIML branches) (Supported byVERITAS)

BoS: 10: 04: Honors in Research (20 Credit)

1. Dr. Mubin Tamboli started with next agenda points is about the new proposal of Honor in Research of 20 credit honor.
2. Mr. Rahul Kulkarni emphasized that the course is highly essential and much needed for students pursuing advanced research.
3. Dr. Geetanjali Kale suggested ensuring that there is no content overlap between this course and other existing courses within the honors or regular curriculum like Research Methodology which may be offered in final year courses.
4. Dr. Sonali Patil shared that the detail content of the course is not yet finalized, but this course can be useful for the student to enhance research culture in student. She also ensured that after detailing the syllabus the complete structure of this will be presented in upcoming BoS.

Resolution R-BoS:10:04

BoS member appreciated about the inclusion of research as course but commented that this honor will be approved only after confirming that there would not be any overlap between the regular courses and this honor courses.

BoS: 10: 05 Internship of 12 credits

1. Dr. Sonali Patil provided a brief overview of the 12-credit internship, explaining the structure, objectives, and various schemes through which the internship opportunities would be offered to students.
2. Mr. Rahul Kulkarni appreciated the initiative, stating it was much needed and an excellent step. He approved the approach and suggested setting clear targets or goals for students to achieve during the internship period to ensure meaningful outcomes.

Resolution R-BoS:10:05

Flexibility in distribution of internship credit over the graduation period appreciated and approved by members.

BoS: 10: 06 Flexible Exam Scheme

1. Dr. Sujata Kolhe briefed the members about the proposed Flexible Exam Scheme, which is designed to support both advanced and slow learners through a structured mechanism tailored to their learning pace and capabilities.
2. Mr. Rahul Kulkarni appreciated the initiative and suggested using more inclusive and motivating terminology instead of "slow learners" or "fast learners." He recommended using terms like Orange Track, Yellow Track, Green Track, Regular Track, Learner Track, or Knowledge Track to create a positive and encouraging learning environment.

Red Channel and Green Channel

1. Dr. Sujata Kolhe elaborated on the concept of the Red Channel Scheme, which is bifurcated into two parts: Scheme A – Designed specifically for slow learners, Scheme B – Tailored for advanced learners.
2. She explained that during course registration, students would be given the option to choose between the Green or Red Channel Schemes based on their learning needs and preferences.
3. Mr. Rahul Kulkarni raised a concern about how this differentiation between slow and advanced learners would be reflected in the marksheet or academic transcript.
4. Dr. Abhijat Vichare further questioned the alignment of these schemes with the Choice-Based Credit System (CBCS) and suggested that CBCS itself should be used to offer such flexibility rather than introducing separate schemes.
5. Dr. Sonali Patil suggested that advanced learners can be provided with the option to take one or two additional elective courses to help them fully explore and utilize their potential.

6. Dr. Sujata Kolhe concluded by assuring that she would convey the suggestions and feedback to the central academic team for further deliberation and necessary actions.

Resolution R-BoS:10:06

BoS member suggested reconsidering the flexible exam scheme, with final decisions aligned with the Academic Council's guidance.

BoS: 10: 06: Minor Changes in FY, SY, B.Tech and M. Tech courses

1. Dr. Tamboli mentioned that minor changes in the syllabus have been incorporated and updated for the respective courses.

Resolution R-BoS:10:07

All minor changes are approved.

BoS: 10: 07: Any other point

Vision and Mission of Computer Engineering (Regional Language)

1. Dr. Rachana Patil presented the Vision and Mission of Computer Engineering (Regional Language) Department.
2. Mr. Rahul Kulkarni suggested replacing the phrase "preserving culture" with "leveraging culture" in the vision statement, to better reflect the department's intent to actively utilize cultural values in advancing technology rather than merely maintaining them.

Dr. Rachana Patil concluded the meeting by extending a warm invitation to all external and internal Board of Studies (BoS) members for the upcoming Provisional Passing Certificate Award Ceremony as part of the Ashvamedha 2025 event. She then formally proposed the vote of thanks, expressing gratitude to all members for their valuable insights and active participation.

Prepared by:
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