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11th BOS Minutes of Meeting		

Department: Computer Engineering

Academic Year: 2024-2025

Semester: I

Date: 22/11/2025

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

Following members were present:

Sr. No	Name	Designation
1.	Dr. Geetanjali Kale	Head & Associate Professor, Department of Computer Engineering, SCTR's PICT, Pune.
2.	Dr. H. S. Guruprasad	Professor, BMS College of Engineering, Bangalore, Karnataka, India
3.	Dr. O. P. Vyas	Professor, Department of Information Technology, Indian Institute of Information Technology - Allahabad
4.	Dr. Abhijat Vichare	Research and Software Consultant, System Software
5.	Dr. Aamod Sane	Professor, Computer Science, Flames University, Pune.
6.	Mr. Rahul Kulkarni	Co-Founder DoNew Innovations LLP, Pune
7.	Dr. Sonali Patil	BoS Chairman, Professor & Head, Comp Engg.
8.	Dr. Rachana Patil	BoS, Chairman, Head, Comp Engg.(Regional Lang.)
9.	All Internal BoS Member	BoS Member

Leave of absence was granted to following Members and Invitees:

1.	Mr. Ronald Mascarenhas	Senior Solution Consultant at SAS
2.	Mr. Manoj Apte	Global Head - Learning & Development, Persistent University. Persistent Systems

Agenda for the meeting: -

1. Final Year B.Tech Curriculum Structure
2. Proposal of new MDM – Placement Preparedness
3. Proposal for Honours in Research
4. Minor Changes in UG & PG Curriculum
5. Closure of B.Tech Working Professional Program
6. Any Other Academic Points
7. Vote of Thanks

Following points were discussed during the meeting:

Welcome and Introduction of BoS Members

On behalf of computer engineering and computer engineering (Regional Lang.) Dr. Meghana Lokhande welcomed all the BoS Members. She introduced all external BoS Members. Dr. Meghana Lokhande highlighted previous BoS (10th BoS Meeting) meeting agenda and its resolution and action. The minutes of 10th BoS meeting got confirmed. After this she started with agenda points of the meeting.

BoS 11.01: Final Year B. Tech Curriculum Structure

Dr. Meghana presented the curriculum structure of Final Year B.Tech Curriculum and outlined syllabus for the courses under this structure. She presented the structure of VII and VIII semester along with all courses, as shown in the attached document.. In the VII semester there are two program courses 1. Distributed systems and Object-Oriented Modelling and System Design of four credit each TCP (Theory cum Practical) course, and in one program elective course of four credit TCP course, there are two choices offered, 1. DevOps 2. Agentic AI design. One four credit TCP research methodology and MDM project of four credit. In semester VIII two program elective course of two credit each as MOOC course and four credit of project and 12 credit of internship. The internship details was already approved in previous BoS. She explained that the credit distribution follows the approved Autonomy Regulation (2023). After this Dr. Meghana Lokhande invited all course coordinator to presented their course one by one.

A. Distributed Systems

Syllabus for Distributed Systems was presented by Mr. Ganesh Deshmukh. During the review, Mr. Rahul Kulkarni suggested the change in course outcome to broaden with better conceptual balance. He suggested to include distributed protocols, decentralized architectures, and the Disaster Recovery (DR). He also emphasized that laboratory assignments should be more

system-centric to reflect real-world distributed environments.

Dr. Amod Sane recommended removing outdated or less-relevant topics. He also encouraged the addition of real-world system design case studies, contemporary YouTube-based design walkthroughs, and interview-oriented scenario prompts to enhance practical exposure.

Dr. Geetanjali Kale suggested integrating topic-wise references to support structured and accessible learning for each unit.

To strengthen the industry alignment of the curriculum, Mr. Rahul Kulkarni further recommended including modern cloud and networking technologies such as Cloudflare, Arista, Megaport, and AWS Direct Connect, and demonstrating how large-scale cloud networking is managed. He also emphasized the need to introduce AI-driven development tools like GitHub Copilot, Jaseci, custom GPTs, and the Agent Builder platform, preparing students for the emerging AI-powered engineering ecosystem. Dr. Guruprasad and Dr. O.P. Vyas sir agreed the comment received and suggested modifications.

In terms of assessment, Mr. Rahul encouraged the use of project-based evaluation wherever feasible. Complementing this, Dr. Abhijat Vichare proposed incorporating socket programming labs, network score challenges, and other practical assignments aligned with contemporary distributed system challenges. The Board agreed on a balanced assessment framework, combining structured evaluations with project-based components, supported by detailed topic-wise reference materials.

B. Object Oriented Modelling and System Design

Syllabus for Object-Oriented Modeling & System Design were presented by Dr. Sarika Deokate. Dr. Amod Sane suggested incorporate REST API topics, and system design components. Dr. Geetanjali Kale supported the inclusion of system design prompts, architecture-level learning, and modern industry-relevant examples. Further, Dr. Amod Sane proposed introducing HTMx as a modern extension of HTML, while Mr. Rahul Kulkarni recommended teaching UI development through two parallel approaches—traditional HTML-based & React-based. He also suggested using Mermaid.js for diagramming, adding concepts of vertical and horizontal scalability, integrating AI tools for assignment validation, and including Architecture Decision Records (ADRs) to improve design documentation.

C. Research Methodology

The syllabus for Research Methodology, presented by Dr. Santosh Sambare, led to extensive deliberation. Dr. Amod Sane recommended incorporating technical writing skills, research

report drafting methods, and graph-based thinking approaches to strengthen analytical abilities.

Dr. Abhijat Vichare stressed the need for training students to critically read research papers and understand the peer-review and evaluation process. Dr. Geetanjali Kale proposed group-based analysis of papers authored by leading researchers to enhance collaborative learning and interpretation skills. Mr. Rahul Kulkarni emphasized introducing techniques for mapping research areas and familiarizing students with the foundational structure of academic research. Based on these inputs, the Board agreed to include modules on technical writing, credibility and validity analysis, author and domain mapping, reading strategies, graph-based reasoning, and structured review frameworks.

D. Program Elective Course 1. DevOps

The DevOps syllabus, presented by Ms. Manisha Pawar. Dr. Amod Sane recommended adding a dedicated “Do-It-Yourself Docker Module” to ensure students gain hands-on experience in building and managing their own container environments. Dr. Rahul Kulkarni suggested strengthening the practical ecosystem by integrating GitHub Classroom, GitHub Actions, cloud databases such as AWS Aurora and AWS RDS, and structured training on system log analysis. These enhancements were accepted to improve industry relevance. Dr. Abhijat Vichare proposed embedding real-life project components, along with pre-mortem and post-mortem analysis, self-healing system concepts, and case studies of real industrial failures to help students understand resilience mechanisms and failure patterns in modern DevOps pipelines. Overall all members appreciated and happy about including DevOps course in curriculum also appreciated about many points are covered in the syllabus.

E. Agentic AI Design

As part of the curriculum modernization initiative, Ms. Pooja Bidwai presented the revised Agentic AI Design course. During the review, Mr. Rahul Kulkarni appreciated about inclusion about this course in syllabus. He noted that hands-on experience in function calling, evaluation benchmarks such as Berkeley BERklis, and offline function calling frameworks like cru.ai is essential for practical learning. He further stressed covering emerging trends, ethical concerns, and the A2P protocol relevant to evolving Agentic AI ecosystems. Dr. Amod Sane added that the course should clearly articulate the principles and layered architecture of agentic systems to ensure conceptual clarity. Dr. O.P. Vyas appreciated the course content.

Resolution R-BoS: 11:01

BoS member appreciated about course content and approved for final year B.Tech semester VII and VIII courses. For few courses content updating suggested by members.

BoS: 11:02 – Proposal for new MDM: Placement Preparedness

The Placement Preparedness MDM of 14 credits presented by Mr. Rahul Pitale, was reviewed as a crucial industry-aligned component. Dr. Amod Sane emphasized that student readiness must extend beyond technical proficiency to include problem-solving ability, communication skills, and professional behavior. Mr. Rahul Kulkarni recommended integrating structured aptitude training, coding contests, resume-building workshops, mock technical and HR interviews, and industry interaction sessions. They further highlighted the importance of exposing students to real industry datasets, industry-used tools, and practical assignment environments to ensure authentic placement preparation. The board stressed that training must be continuous and semester-long, rather than concentrated only before placements.

Resolution R-BoS: 11:02

The computer engineering department proposed new MDM: Placement Preparedness approved by all the members. The initiative appreciated by all members.

BoS: 11:03 – Honors in Research

BoS chairman Dr. Sonali Patil informed about the introducing the new Honors in Research course. The course will introduced from third year subject to approval in academic council meeting.

Resolution R-BoS: 11:03

All members acknowledged the honor course in “Honor in Research”.

BoS: 11:04 – Minor Changes in UG & PG Curriculum

Dr. Meghana started with new agenda point about Minor changes in curriculum.

1. M.Tech minor changes presented by Dr. Aparna Joshi
 - a. In semester I, Skill Development Laboratory I is replaced with Fullstack Development Laboratory
 - b. In semester II Review Paper writing changed with Research Methodology Lab.
2. After this minor changes in UG courses were highlighted by Dr. Sonali Patil.
 - a. The two credit HSSM course in semester III and two credit course in semester IV will be henceforth offered by department.
 - b. The first HSSM course will be Software Project Management and second HSSM course will be Design Thinking.
 - c. In semester IV the course Design and Analysis of Algorithm of three credit TCP will be introduced in place of Advance Data Structure and Advance Data Structure Lab.

- d. In Third Year, semester V, the Open Elective course will be replaced with Program Core Course named Artificial Intelligence and Computer Network and Security changed with Computer Network.
- e. In semester VI Design and Analysis of Algorithm course changed with Cryptography and Network Security with three credit TCP.
- f. Along with this for FY, SY and Third Year the self-learning will be added after each unit. For few courses the content were updated.

Resolution R-BoS:11:04:

All the members of BoS were appreciated and agreed that the changes were minor yet relevant and would improve clarity and student learning outcomes. The board approved the modifications with no objections.

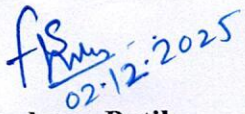
BoS: 11:05 – Closure of B.Tech Working Professional Program

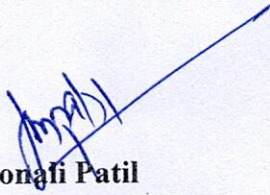
BoS chairman Dr. Sonali Patil proposed the closure of B.Tech Working professional program due the no admission from last two years.

Resolution R-BoS:11:05

Members acknowledged the rationale and approved the closure without further discussion.

Dr. Meghana Lokhande expressed sincere appreciation to all BoS members for their deep engagement, practical insights, and forward-thinking suggestions that significantly enhanced curriculum quality. She thanked the external experts for their time and guidance and acknowledged the internal members for their diligent efforts.


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