



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

**Minutes of Meeting: 9<sup>th</sup> Board of Studies on 29<sup>th</sup> November 2024**

**Department:** Computer Engineering

**Academic Year:** 2024-2025

**Semester:** I

**Date:** 29/11/2024

The 9<sup>th</sup> meeting of the Board of Studies of Computer Engineering and Computer Engineering (Regional Language) PCCoE was held on Friday 29/11/2024 at 10:00 am in online 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. Madhavi Ajay Pradhan	Associate Professor, Department of Computer Engineering, All India Shivaji Memorial Society's College of Engineering, Pune.
3.	Dr. H. S. Guruprasad	Professor, BMS College of Engineering, Bangalore, Karnataka, India
4.	Dr. O. P. Vyas	Professor, Department of Information Technology, Indian Institute of Information Technology - Allahabad
5.	Dr. Abhijat Vichare	Abhijat Research and Software Consultant, System Software
6.	Mr. Rahul Kulkarni	Co-Founder DoNew Innovations LLP, Pune
7.	Dr. Sonali Patil	Professor & Head, Comp Engg.
8.	Dr. Rachana Patil	Head, Comp Engg.(Regional Lang.)
9.	All Internal BoS Member	BoS Member

**Leave of absence was granted to following Members and Invitees:**

1	Dr. Aamod Sane	Professor, Computer Science, Flames University, Pune.
2	Mr. Ronald Mascarenhas	Senior Solution Consultant at SAS
3	Mr. Manoj Apte	Global Head - Learning & Development, Persistent University. Persistent Systems

**Agenda for the meeting: -**

1. Proposed T. Y. B.Tech. Curriculum Structure
2. Proposed T.Y. B. Tech Syllabus
3. Exit Policy UG
4. Exit Policy PG
5. Proposed Open Electives new – as per Academic Council Suggestions (Post-facto approval)
6. Proposed Honor Minor Revision
7. Any other related points
  - a. NEP and Non-NEP equivalence
  - b. Formative Assessment tools
  - c. Vision & Mission of Computer Engg. (Regional Language)
8. 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 8<sup>th</sup> BoS meeting. The minutes of the 8<sup>th</sup> BoS meeting got confirmed. She also thanked all BoS Members for their valuable presence. After introducing agenda points of the 9<sup>th</sup> BoS meeting she handed it over to Dr. Mubin Tamboli, Autonomy coordinator to start with the agenda points.

#### **BoS: 09: 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 as follows:

Fifth Semester: Program core courses (PCC) are Theory of Computation, Machine Learning, Information Security, Computer Network.

One program elective, one open elective, and two courses from corresponding Multidisciplinary Minor (MDM one theory and one laboratory).

Sixth Semester: PCC courses are Operating System, Design and Analysis of Algorithm and Software Engineering. Two program elective courses, one course from corresponding MDM and one Vocational Skill Enhancement course on Web Development (Full Stack Development).

The forum was open for discussion.

#### **Discussions:**

1. Dr. Guruprasad inquired about the evaluation process for two-credit courses at the end of the semester, specifically whether the assessment will be based on 50 marks, 100 marks, or if it will be scaled down to 50 marks. Dr. Sonali Patil explained about the same that students will be evaluated for 30 marks, one hour examination at the end of semester for two credit courses.

2. Mr. Rahul Kulkarni appreciated the course Machine Learning introduced in the fifth semester. He suggested structuring the machine learning course with one credit for theory and one credit for lab work. This approach could provide a balanced mix of theoretical knowledge and practical experience for the students. He suggested that DevOps can also be introduced somewhere in the curriculum.
3. Dr. Geetanjali Kale inquired how machine learning labs will be conducted; Dr. Tamboli replied that practical aspects can be evaluated in formative assessment. Ms. Archana Kadam shared that few practical concepts are already covered in SY B.Tech.
4. Dr. Swati Shinde shared that formative assessment will be there on activity based.
5. Dr. Guruprasad praised the Full Stack Development course, highlighting it as a comprehensive laboratory course.

**Resolution R-BoS:09:01:** The BoS resolved to approve the T. Y B Tech Curriculum structure and syllabus of Computer Engineering and Computer Engineering (Regional Lang.).

**BoS: 09: 02: Theory-cum-Practical Courses**

Dr. Mubin Tamboli presented the Program Core Courses (PCC) offered as Theory-cum-Practical in Semester V and Semester VI

PCC: Computer Network

PCC: Operating System

PCC: Design and Analysis of Algorithm

PCC: Software Engineering

**Discussions:**

1. Dr. Sonali Patil explained about Theory-cum-Practical courses and their structure of evaluations.
2. Mr. Rahul Kulkarni appreciated the initiative for courses as Theory-cum-Practical

**Resolution R-BoS:09:02:** The concept of Theory-integrated-Practical approved.

**BoS: 09: 03: Proposed T.Y. B.Tech Syllabus of Program Core Courses**

Dr. Mubin Tamboli presented the courses offered for fifth and sixth semester and invited each course coordinator to present the syllabus.

Theory of Computation course presented by Ms. Archana Kadam

Machine Learning Course presented by Dr. Mubin Tamboli

Information Security Course presented by Ms. Rucha Shinde

Computer Network course presented by Dr. Meghana Lokhande

Operating System course presented by Dr. Pravin Game

Design and Analysis of Algo. Course presented by Dr. Sarika Devkate and Ms. Shivani Pande

Software Engineering Course presented by Mr. Shailesh Galande.

**Discussions:**

### **A. Theory of Computation (ToC)**

1. For Theory of Computation course Mr. Rahul Kulkarni emphasized on focusing on complexity and asking about the application and commented that the syllabus covered many topics.
2. Dr. Guruprasad commented that the syllabus is heavily loaded and inquired about whether it will be covered in classes and asked to include assignments. He also suggested an analysis of the result of this course to ensure the difficulty level among students. And he also suggested teaching this subject like a design course. Ms. Archana Kadam replied that students whose logic is clear are scoring in this course.
3. Dr. Madhavi Pradhan asked about the different books mentioned in the syllabus and suggested using tools to solve examples.
4. Dr. Abhijat Vichare queried about the regular expression included in the course and its application and he suggested using tools in the course delivery. He also shared the thought that students must understand what is an algorithm and what is not. This course can connect to design and analysis of algorithms where complexity is already included. He appreciated the course content.

### **B. Machine Learning (ML)**

1. Dr. Guruprasad appreciated that the course is neatly designed from preprocessing to supervised and unsupervised learning algorithms. He also commented that effectiveness of the course depends on the real time assignment and assessment involved in the course.
2. Mr. Rahul Kurkarni suggested considering one same real time dataset throughout the content of the course to get the concrete analysis of the techniques studied in the course.
3. Dr. Guruprasad also raised a query about coverage of content in terms of conceptual and mathematical understanding. Dr. Swati Shinde shared that applied mathematics concepts were covered in first year and second year.

### **C. Information Security(IS)**

1. Mr. Rahul Kulkarni appreciated the way the syllabus was designed. He suggested adding homomorphic encryption which is required in the syllabus.
2. Dr. Madhavi suggested including practical based activity in FA.
3. Dr. Guruprasad suggested the Fourazan authored book in the references.

### **D. Computer Networks(CN)**

1. Dr. Guruprasad and Mr. Rahul Kulkarni commented that the assignments mentioned are interesting and very good. Mr. Rahul Kulkarni shared that one thing missing in the course syllabus is the limitation of different protocols.
2. Dr. Abhijat Vichare suggested using a top down approach rather than bottom up approach of course content presented in units.

### **E. Operating System(OS)**

1. Mr. Rahul Kulkarni commented on the design of the microkernel. In the course students can work on small operating system/kernel design in terms of different assignments.

2. Dr. Abhijat Vichare recommended a programming language for the assignment, provided insights on the roles of processes and files in the operating systems course, and shared to design own OS. He also praised the well-designed course content.
4. Dr. Guruprasad and Dr. Vyas remarked that the course outcomes for each course are well-defined.

#### **F. Design and Analysis of Algorithm (DAA)**

1. Dr. Guruprasad appreciated the way content and lab assignments were organized in course.
2. Dr. Rahul Kulkarni and Dr. Guruprasad emphasized on taking assessment of students on online platforms like- Code chef and Hacker rank.
3. Dr. Abhijat Vichare suggested thinking about the performance measurement for algorithms in terms of time and space complexities.

#### **G. Software Engineering (SE)**

1. Dr. Madhavi Pradhan recommended utilizing a book authored by Pankaj Jalote.
2. Dr. Rahul Kulkarni suggested a revision of the course content to align it with current industry standards.
3. Dr. Rahul Kulkarni suggested imparting knowledge of SCRUM, JIRA and GITHUB.

#### **Resolution R-BoS: 09:03:**

1. It is resolved unanimously by BoS members to approve the Program Core Courses syllabus.
2. It is resolved that Computer Network syllabus will be updated to follow a top-down approach in its course content arrangement.
3. It is resolved that the syllabus of Software Engineering will be revised with the inclusion of industry ready concepts and tools for course content as well as in assignments.

#### **BoS: 09: 04: UG and PG Exit Policy**

Dr. Mubin Tamboli started with the next agenda of UG and PG exit policy. Dr. Sonali Patil elaborated about UGC guideline of exit policy.

##### **UG Policy**

<b>Sr. No.</b>	<b>After Semester</b>	<b>Qualification Title</b>	<b>Regular Credit Requirement</b>	<b>Additional Credits to be Earned</b>
1.	Semester 2	One Year UG Certificate	Minimum 40 credits	8 Credits
2.	Semester 4	Two Year UG Diploma	Minimum 80 credits	8 Credits
3.	Semester 6	Three Year B. Voc/ B.Sc	Minimum 120 credits	8 Credits

##### **PG Policy**

<b>Sr. No.</b>	<b>After Semester</b>	<b>Qualification Title</b>	<b>Regular Credit Requirement</b>	<b>Additional Credits to be Earned</b>
1.	Semester 2	Post Graduate Diploma	40 credits	2 Credits of Industrial Internship

After presenting exit policy, exit course structure and syllabus were presented for all three cases for UG programs. In PG course exit policy, exit can be possible after completion of first year by adding additional two credits which can be earned from industrial internship by the student.

**Discussion:**

1. Dr. Sonali Patil shared that till now no case was observed for seeking exit in between. But as per UGC policy, the department has a policy for exit.
2. Dr. Guruprasad commented that it is an exceptional case and a policy must be drafted for this case.

**Resolution R-BoS: 09:04:**

1. It is resolved unanimously by BoS members to approve the exit policy of UG and PG and course structure for every exit point.

**BoS: 09: 05: Open Elective Buckets**

Dr. Sonali Patil shared that Open Electives were already approved but as per Academic Council suggestion, electives are divided into three buckets as Applied Mathematics, Engineering Sciences, Department Specific Electives. Same electives which were approved in previous BoS are continued under Department Specific Electives.

**Discussion:**

1. Dr. Sonali Patil mentioned that the elective courses, which had already been approved in the previous BoS, are now being presented in the format in which they will be offered to students, and all members agreed to this arrangement.

**Resolution R-BoS: 09:05:**

1. It is resolved unanimously by BoS members to approve the elective courses for S.Y. B Tech.

**BoS 09:06: Honor-Minor Revision:**

Dr. Mubin Tamboli shared that the revision is made for only Deep Learning honor courses. A minor revision is proposed, which includes updating the "Deep Learning Application" course to "Advanced Deep Learning" and changing the associated lab from "Deep Learning Modelling Laboratory" to "Advanced Deep Learning Laboratory."

**Discussion:**

1. Dr. Guruprasad asked about the number of students registered for the course. Dr. Mubin Tamboli shared that around 40 students registered for the continuing course.

**Resolution R-BoS: 09:06:**

1. It is resolved unanimously by BoS members to approve the revision in Deep Learning Honor Course.

**BoS: 09: 07: Any Other Point: Formative Assessment tools**

Dr. Mubin Tamboli presented the different points under any other point.

**Discussion:**

1. Dr. Sonali Patil shared that students are internally evaluated with formative assessment tools. There are different tools defined by course faculty and approved in DUPC. She also commented that in the next BoS the impact of the observed assessment tools will be shared.

**Resolution R-BoS: 09:07:**

1. The Board of Studies members unanimously agreed to approve the formative assessment tools for evaluating students through ongoing assessments.

**BoS: 09: 08: Any Other Point: Non-NEP to NEP course equivalence**

Dr. Sonali Patil presented the Non-NEP to NEP equivalence and further Dr. Sujata Kolhe elaborated about the equivalence policy.

**Discussion:**

1. Dr. Sonali Patil shared that the equivalence for year down students who are entering from Non-NEP to NEP courses.
2. Mr. Rahul Kulkarni asked about whether it is applicable to lateral entry. Dr. Sujata Kolhe clarified that this is applicable to students who have backlog of Non-NEP course and now moving to NEP course and course equivalence varies based on difference in syllabi of courses.

**Resolution R-BoS: 09:08:**

1. It is resolved unanimously by BoS members who approve the Non-NEP to NEP course equivalence.

**BoS: 09: 09: Any Other Point: Vision and Mission of Computer Engineering (Regional Language)**

Dr. Rachana Patil presented the Vision and Mission of Computer Engineering (Regional Language) Department.

**Discussion:**

1. Dr. Guruprasad suggested having a brainstorming session on "equal learning opportunities".
2. Dr. Gitanjali Kale suggested including a research statement in the mission.
3. Dr. Rahul Kulkarni suggested a rethink on cultural context.

**Resolution R-BoS: 09:08:**

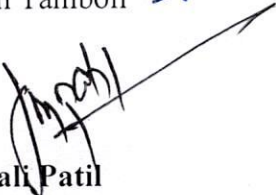
1. It was resolved unanimously by BoS members to update the vision and mission of the computer engineering (Regional Language) department.


**BoS: 08: 14: Vote of Thanks:**

Dr. Sonali Patil proposed the Vote of Thanks to all external BoS members as well as internal members.

Prepared by:

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