



PCCoE / CSE (AI & ML) / 2021-22 / 12

	<p>Pimpri Chinchwad Education Trust's Pimpri Chinchwad College of Engineering</p>	
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## Minutes of Meeting: First Board of Studies Meeting on 14th June 2022

**Department:** CSE (AI & ML)

**Academic Year:** 2021-2022

**Semester:** II

**Date:** 15/06/2022

The first meeting of the Board of Studies of Computer Science & Engineering (AI & ML) Program of PCCoE was held on Tuesday 14/06/2022 at 11:00 am in department conference room 6117DQ.

### **Agenda for the meeting: -**

1. Welcome and Introduction of BoS Members
2. About Computer Science & Engineering in Artificial Intelligence & Machine Learning Program
3. F.Y. B Tech Curriculum Structure
4. Proposed SY B.Tech Curriculum Structure
5. Detailed SY B.Tech Syllabus
6. Open Discussion
7. Any other point with the permission of chair
8. Vote of Thanks

Following points were discussed during the meeting: -

### **01: Welcome and Introduction of BoS Members**

1. Prof. Dr. Anuradha Thakare, chairman BoS welcomed all the BoS members. She gave a brief introduction about the department. She also introduced all the BoS members
  - Dr. Sandhya Arora, Professor Computer Engineering, Cummins College of Engineering Pune.
  - Dr. Yogesh Deshpande, Professor, (Director VU Digital) Vishwakarma University, Pune
  - Dr. Sudhir Dhage, Professor, SPIT Mumbai
  - Mr. Hemant Selmokar, Project Manager, Infosys Pune
  - Dr. Manisha Mantri, Joint Director, CDAC Pune
  - Mr. Amrish Dantrey, Senior Manager, Nvidia Pune
  - Dr. Yogesh Kulkari, Principal Architect (CTO office, Icertis)
  - Mr. Shyam Deshmukh, Alumnus
2. Prof. Dr. A.D. Thakare opened the meeting formally by thanking all the BoS members for their acceptance to contribute as a BoS member of CS&E AI ML program.

## **02: About Computer Science & Engineering (Artificial Intelligence & Machine Learning Program)**

1. Dr. A.D.Thakare introduced Computer science & Engineering in AI ML program and also discussed how it differentiates with regular Computer engineering programs.
2. Dr.A.D.Thakare presented proposed vision, Mission and Program educational objectives (PEO's) of the program.
3. She also explained the credit system and course distribution of CSE (AI & ML) as per the AICTE norms.
4. She also introduced the following faculty members as Subject Heads of CSE (AI & ML) program.
  - Dr. Anuradha Thakare
  - Dr. Sonal Gore
  - Mrs. Shailaja Pede
  - Mrs. Pallavi Dhade
  - Mrs. Santwana Gudadhe

## **03: F.Y. B Tech Curriculum Structure**

1. Dr. A.D.Thakare presented FY B.Tech structure which is common to all engineering branches and it is approved.
2. Dr. Sudhir Dhage, Mr. Amrish Dantre, Mr. Hemant Selmokar asked about programming languages for FY syllabus.
3. All BoS members accepted FY B.Tech structure.

## **04: Proposed SY B Tech Curriculum Structure**

1. Dr. A.D.Thakare presented proposed S.Y. B.Tech structure and proposed core courses , Professional elective courses, proficiency courses for AI & ML curriculum.
2. Mr. Hemant Selmokar shared that domain knowledge is a very important aspect for the AI ML syllabus. He also suggested adding software engineering management tools rather than traditional concepts of software engineering.
3. Dr. Sudhir Dhage suggested that the Algorithm subject can be a separate course as Design and analysis of algorithms.
4. Dr. Yogesh Deshpande appreciated adding humanities courses and environmental science courses as per the AICTE guidelines .
5. Dr. Yogesh Deshpande further said , Project -I naming convention may be a Minor Project.
6. He further suggested that to include the use of Jira or any project management tool in Project - I course.
7. Dr. Yogesh Deshpande suggested that as a part of Project -I, students can prepare a video resume on project work. These video resumes may be linked on the dept website.
8. Mr. Amrish Dantrey shared that students should learn how to develop intelligence for any real time applications through their curriculum. The focus need not be on theoretical approach while teaching the subjects.

## 05: SY B.Tech. Syllabus

1. Prof. Shailaja Pede presented the SY BTech detailed syllabus. The Faculty members, who are subject heads, explained each course.
2. Each course syllabus along with its objectives and outcomes were presented. Following are the discussions:

### ■ **Discrete Mathematics**

- Dr. Sudhir Dhage sir shared Graph and theory concepts are very important for CSE students and these are already included.
- All BoS members said that the syllabus is well drafted.
- Data Science
- Mr. Hemant Selmokar suggested, as key performance indicators (KPI) may be included in data science theory syllabus.
- Dr. Sandhya Arora Suggested to add assignments in the data science lab based on data visualization concepts.
- Data visualization assignment can be case study based.
- It is resolved to add contents based on visualization techniques.

### ■ **Data Structures & DS Lab**

- Dr. Sudhir Dhage , Dr.Yogesh Deshpande , Dr. Sandhya Arora all said data structure is important in view of students placement.
- Dr. Sandhya Arora said it's difficult for students to implement lab assignments in C++ as they are learning C++ in OOPS parallelly in semester 3.
- It is resolved that students need only basic knowledge of C++ for data structure implementation as more focus is on concepts of data structure.

### ■ **Object Oriented Programming and OOP lab**

- Dr. Sandhya Arora asked to add Java programming in the OOP syllabus.
- The inclusion of Standard template libraries for OOP concepts is well appreciated.
- Dr. Sudhir Dhage shared that study of core concepts should be language independent. Main focus should be on understanding OOP concepts.
- Dr. Amrish Dantrey and Dr. Manisha Mantri supported the inclusion of C++ in the programming language.
- It is resolved as Java is included in the proficiency course and C++ Programming language will be the part of OOP.

### ■ **Computer Organization & Operating Systems**

- Dr. Sonal Gore presented the syllabus and also shared that the educational operating system is added as part of the operating system syllabus.
- Case studies based on xv6 operating systems are added for detailed understanding of students.

- **Database Systems**
  - Mr. Hemant Selmokar Sir suggested adding contents on data warehousing in Database systems.
  - It is resolved to add an introductory topic on Data Warehousing.
  
- **Artificial Intelligence & Machine learning**
  - Mr. Amrish asked about differences in the syllabus of AI, ML and Data Science.
  - Mrs. Pallavi Dhade and Mrs. Santwana Gudadhe explained various assignments which are designed for AI Lab and ML lab.
  - Dr. Sudhir and Dr. Yogesh Suggested that faculties can discuss real time scenarios during practical implementation of various lab assignments.
  - Dr. Manisha and Dr. Sandhya appreciated curriculum focus on AI & ML tools for hands on.
  - It is resolved to add guidelines for use of real time scenarios in the practical course syllabus.
  
- **Software Engineering**
  - Mr. Hemant Selmokar said that Software engineering syllabus should be taught practically with respect to industry requirements.
  - Mr. Shyam Deshmukh also suggested that students should know about project management tools.
  - Mr. Amrish Dantrey also suggested to use modern engineering tools for software engineering and project management.
  - Dr. Yogesh suggested to use project management tools like JIRA, SDLC Model like Agile for the project work and documentation.
  - It is appreciated that the Software Engineering theory course includes advanced topics like Agile, Scrum, Kanban etc.
  - It is resolved to add software engineering tools like JIRA in the project course and students apply software engineering concepts practically in the project-I course.
  
- **Proficiency Courses**
  - Syllabus of R programming and Java programming course is presented.
  - Dr. Manisha Mantri shared that Excel spreadsheets is a very powerful tool which is being used on a regular basis by Industry professionals. And it is supported by Mr Amrish Dantrey and Mr. Hemant Selmokar by sharing that “knowing how to use excel for data analysis will boost the confidence of students”.
  - It is resolved that initial assignments in the proficiency course syllabus can be included.

All BoS members appreciated the efforts taken for designing the structure and syllabus contents of SY BTech CSE (AI & ML) program. The syllabus is well designed considering important aspects such as AICTE Model curriculum for CSE (AI & ML), Pre-requisites of courses, Mathematical foundation, avoiding repetition in contents.

#### **06: Vote of Thanks**

Meeting ended with a presentation summary and vote of thanks by Prof. Shailaja Pede, Autonomy Coordinator.

#### **Attendees:**

1. Dr. Sandhya Arora (Professor, Cummins College of Engineering for Women, Pune. SPPU VC Nominee.)
2. Dr. Yogesh Deshpande (Professor & Director – VU Digital, Vishwakarma University, Pune)
3. Dr. Sudhir Dhage (Professor, Department of Computer Engineering Sardar Patel Institute of Technology, Mumbai)
4. Mr. Hemant Selmokar (Group Project Manager, Infosys Pune)
5. Dr. Manisha Mantri (Joint Director, CDAC Pune)
6. Mr. Ambrish Dantrey (Senior Manager, System Software at NVIDIA)
7. Mr. Shyam Deshmukh (Tech Lead QA Engineers, Nice Pune.)
8. Dr. A.D.Thakare (Professor & Head CSE AI ML, PCCOE; Pune)
9. Dr. Sonal Gore (Assistant Professor)
10. Mrs. Shailaja Pede (Assistant Professor)
11. Mrs. Pallavi Dhade (Assistant Professor)
12. Mrs. Santwana Gudadhe (Assistant Professor)

Leave of absence was granted to following members:

Dr. Yogesh Kulkari, Principal Architect (CTO office, Icertis)



**Dr. A.D.Thakare**

**BoS Chairman & Head of Department  
Computer Science & Engineering (AI & ML)  
PCCoE, Pune.**

#### **Enclosures:**

1. Meeting Attendance
2. Meeting Photograph







Pimpri Chinchwad Education Trust's  
Pimpri Chinchwad College of Engineering



**BOARD OF STUDIES MEETING**  
**Computer Science & Engineering, Artificial Intelligence & Machine Learning Program**  
**Attendance**

SN.	Name	14/06/2022	Remarks
1	Dr. Anuradha Thakare		
2	Dr. Sonal Gore		
3	Prof. Shailja Pede		
4	Prof. Pallavi Dhade		
5	Prof. Santwana Gudadhe		
6	Dr. Sudhir N. Dhage Professor, Department of Computer Engineering Sardar Patel Institute of Technology, Mumbai		
7	Dr. Yogesh Deshpande Professor & Director – VU Digital, Vishwakarma University, Pune		
8	Dr. Mrs. Sandhya Arora Professor, Department of Computer Engineering, Cummins College of Engineering, Pune		
9	Dr. Yogesh Kulkarni Principal Architect (CTO Office, Icertis)   Google Developer Expert (Machine Learning)	ABSENT	Online syllabus is reviewed.

10	Mr. Hemant Selmokar Group Project Manager, Infosys Pune		
11	Dr. Manisha Mantri Joint Director, CDAC Pune		
12	Mr. Ambrish Dantrey Senior Manager, System Software at NVIDIA		
13	Mr. Shyam Deshmukh Tech Lead QA Engineers, Nice Pune.		



**Dr. Anuradha Thakare**

**Program Head & BOS Chairman  
CSE (AI & ML)**

**Meeting Photographs:**

