
	Pimpri Chinchwad Education Trust's Pimpri Chinchwad College of Engineering	
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Minutes of Meeting: Third Board of Studies Meeting on 23rd May 2023

Department: CSE (AI & ML)

Academic Year: 2022-2023

Semester: II

Date: 23/05/2023

Third meeting of the Board of Studies of Computer Science & Engineering (AI & ML) Program of PCCoE was held on Tuesday 23/05/2023 at 10:30 am in online mode.

Agenda for the meeting: -

1. Welcome of all BoS Members
2. Action Taken on the suggestions received in the previous BoS
3. Approval for Minor Revisions in SY BTech Curriculum
 - a. Course Outcomes of Object Oriented Programming
 - b. Minor content updations in Database Systems
 - c. Updation of number of hours for theory course of 1 credit as 15 hours and lab course of 1 credit as 14 to 15 turns.
 - d. Updation of Course Laboratory Assignment List
4. Approval for Structure and Syllabus of TY BTech CSE(AI&ML)
5. Course wise Syllabus Presentation
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 of BoS Members

1. Prof. Dr. Anuradha Thakare (Chairman, BoS) welcomed 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, Department of Computer Engineering, Sardar Patel Institute of Technology, Mumbai.
 - Dr. Yogesh Kulkari, Principal Architect (CTO office, Icertis)
 - Mr. Hemant Selmokar, Project Manager, Infosys Pune
 - Dr. Manisha Mantri, Joint Director, CDAC Pune
 - Mr. Shyam Deshmukh, Alumnus, Tech Lead QA Engineer, NICE, Pune.

02: Action Taken on the suggestions received in the previous BoS

1. Dr. Anuradha Thakare explained inclusion of Software engineering Assignments in Project Development was really helpful for the students and received positive feedback from students and parents as well.
2. She also specified as per the previous discussion CSE(AI&ML) program is not offering any Honor or Minor Courses in this year.
3. All BoS members appreciated the actions taken as per their suggestions in previous BoS meetings.

03: Approval for Minor Revisions in SY BTech Curriculum

a. Course Outcomes of Object Oriented Programming:

Prof. Shailaja Pede presented Course Outcomes of Object Oriented Programming course and asked approval for the updated course outcomes. All members agreed for the same.

b. Minor changes in Contents of Database Systems:

Prof. Shailaja Pede presented the syllabus of Database Systems and asked approval to move contents **Concurrency Control, Lock based concurrency control, Time stamping methods** from Unit-I to Unit-IV Transaction Systems, also she asked approval for adding Introduction to Data Mining topic in Unit-I. All members agreed for the same and approved the changes.

c. Updation in Total number of hours for conduction in Theory and Lab Course:

She also put forward the change in number of hours for conducting courses during the semester as per the institute level guidelines. Total number of hours for theory courses of 1 credit are 15 , for 2 credit courses are 30, for 3 credit courses are 45 and for 4 credit courses number of hours is expected as 60. For Lab Course of 1 Credit, total number of 14 to 15 turns. She asked for approval of the same. All BoS members agreed and approved the minor changes.

d. Updation in list of laboratory assignments:

Prof. Shailaja Pede asked for approval of a change in the number of practical assignments of courses as Data Science, Data Structures, Database Systems, machine learning. As per the institute level suggestions number of assignments are increased. All members have agreed and approved the list of updated assignments.

04: Approval for proposed TY BTech Structure & Syllabus

1. Prof.Shailaja Pede presented the structure of TY BTech curriculum, and the details of the courses accommodated in Semester V & VI as core courses, professional elective courses, Open elective courses, audit courses, professional development training courses and proficiency courses.
2. Dr. Sudhir Dhage, Dr.Yogesh Deshpande, Dr. Sandhya Arora suggested keeping 5 courses under each bucket of elective courses. Dr.Sonal Gore discussed that for the intake of 60 students, 3 choices are sufficient. All are agreed and it is resolved to have 3 choices for elective courses.
3. Open elective courses offered by the other programs are shown and it is approved to keep Open Elective -III courses offered by AS&H, Civil, E&TC and Mech department as an open elective-I for CSE(AI&ML)students to get multidisciplinary knowledge.
4. Dr. Anuradha Thakare discussed Project Development- I to Project Development - IV and Major Project. All appreciated for the plan of project development from Semester IV to Semester VII and Semester VIII.

5. Prof.Shailaja Pede discussed that the syllabus is framed with contemporary techniques, uniqueness and inclusion of national level contents as per the GATE, IES exams. She presented the details for each course. Dr.Yogesh Kulkarni appreciated this.
6. Prof. Pallavi Dhade presented the syllabus of Course - “Analysis and Design of Algorithms” theory and lab. Dr.Sandhya Arora suggested shifting Classification of Problem-P, NP, NPC, NP-Hard contents from Unit I to Unit V. She also suggested adding an NPTEL Course as a web reference.
Mrs. Manisha Mantri and Dr.Sandhya Arora suggested not to include algorithmic strategies into lab assignment statements. Students can think, choose and implement the problem statement by selecting appropriate algorithmic strategy.
7. Prof.Santwana Gudadhe presented the syllabus of CN&IOT theory and lab course. Dr.Sandhya Arora suggested making CN & IOT as separate courses or adding more contents of computer networks. Mrs.Santwana discussed that as per the basic knowledge of Computer Network contents are added. Mr.Hemant Selmokar agreed that the CN contents are as per the IoT requirements but he suggested adding few more contents of basics of CN. Other BoS members suggested having 3 units of CN and remaining 3 units on IoT. It is resolved to have 3 units of CN and 3 Units of IoT in CN&IOT syllabus.
8. Prof.Shailaja Pede presented the syllabus of Automata Theory course. All agreed and approved the contents of Automata Theory.
9. Prof. Santwana Gudadhe presented the syllabus of Computer Vision theory, Computer Vision & Deep learning lab, and Intelligent Systems & Robotics theory course. All agreed and approved the contents
10. Dr. Sonal Gore presented the syllabus of Deep Learning theory and Edge Computing (Theory & Lab). All agreed and approved the contents of Deep Learning. All BoS members appreciated the contents of Edge Computing.
11. Prof. Pallavi Dhade presented Project Development II & III syllabus. Mr. Hemant Selmokar sir suggested adding use case writing assignments before mathematical modeling. It is resolved and agreed by all. She also discussed the syllabus of Natural Language Processing. Ms. Manisha madam suggested adding a current hot topic of NLP as transfer learning. All have agreed and it is resolved.
12. Dr.A.D.Thakare presented the syllabus of Big Data Analytics (Theory+Lab) and the syllabus of BioInformatics. Dr.Sandhya madam asked to verify the contents and check if any overlapping. All other members of BoS appreciated the syllabus of Bioinformatics and the case studies added in the syllabus.
13. Prof. Pradnya Narkhede presented the syllabus of Cloud Computing (Theory + lab) . All members appreciated the assignments framed for cloud computing.
14. Prof. Shailaja Pede presented the syllabus of Elective -I (Theory & Lab) Information Security. She also presented the syllabus of Proficiency Course -II(Web Development). Ms. Manisha madam suggested adding DDoS in Information security and adding Stack in web Development. Shailaja Pede explained that the proficiency course is non credit and Node JS and Angular JS are already added which are related to stack. Django is covered in the IoT course. It is resolved and all agreed for the same.

05: Open Discussion

1. Dr. Yogesh Deshpande Sir suggested a list of courses as professional elective courses with current trends in AI&ML, those can be considered next year.

- a. Advanced Deep Reinforcement Learning
 - b. Adversarial Machine Learning
 - c. Explainable AI
 - d. Computer Vision for Autonomous Systems
 - e. Deep Generative Models
 - f. Reinforcement Learning in Robotics
2. Dr. Yogesh Kulkarni suggested Blockchain Technology as one of the electives for seventh semester.
 3. Mrs. Manisha madam , Dr. Sudhir Dhage Sir appreciated the contents of the BioInformatics course.
 4. Dr. Sandhya Arora Madam and Dr. Yogesh Deshpande Sir suggested to include tutorials for the courses such as Automata Theory, CN & IOT for better understanding.
 5. Mr. Hemant sir also suggested keeping ChatGPT, Blockchain as elective courses and Electric vehicle using AI&ML, Intelligent 3D printing and modeling as open elective courses. Sir also elaborated the importance of core subjects like Data structures, Databases, Algorithms, Computer Networks etc.

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. Shyam Deshmukh (Tech Lead QA Engineers, Nice Pune.)
7. Dr. A.D.Thakare (Professor & Head CSE AI ML, PCCOE, Pune)
8. Dr. Sonal Gore (Assistant Professor)
9. Mrs. Shailaja Pede (Assistant Professor)
10. Mrs. Pallavi Dhade (Assistant Professor)
11. Mrs. Santwana Gudadhe (Assistant Professor)
12. Mrs. Pradnya Narkhede (Assistant Professor)
13. Mrs. Madhuri Pagale (Assistant Professor)

Leave of absence was granted to following members:

1. Mr. Ambrish Dantrey (Senior Manager, System Software at NVIDIA)

Dr. A.D.Thakare

BoS Chairman & Head of Department

Computer Science & Engineering (AI & ML)

PCCoE, Pune.

Enclosures:

1. Meeting Attendance
2. Meeting Photograph

Meeting Photographs:

The screenshot shows a Google Meet interface during a presentation. The main window displays a slide titled "Professional Elective Courses in CSE (AI&ML) Program". The slide is divided into four quadrants, each listing elective courses:

- Elective -I**
 - Robotics & Intelligent Systems
 - Natural Language Processing
 - Information Security
- Elective -II**
 - Edge Computing
 - Cloud Computing
 - Bio Informatics
- Elective -III**
 - Augmented Reality & Virtual Reality (ARVR)
 - Sentiment Analysis
 - Blockchain Technology
- Elective -IV**
 - AI in Healthcare
 - AI in Cyber Security
 - AI in Gaming

On the right side of the screen, a grid of participant avatars is visible. The participants include Shailaja Pede, Pallavi Dhade, Dr. Anuradha Thakare, Yogesh Deshpande, Yogesh Haribhau Kul..., Sonal Gore, Sudhir Dhage, 4 others, and You. The bottom of the screen shows the meeting title "3rd BoS Meeting CSE(AI&ML)Department" and the time "11:00 AM".

The screenshot shows a Google Meet interface during a presentation. The main window displays a slide titled "Contemporary Contents". The slide lists three bullet points:

- State-of-the-art technologies are identified as per the current trends in the field of AI & ML.
- Gaps are identified by comparing syllabus with benchmark institutes/ National level institutes
- Contents are mapped with National Level Competitive Exams

On the right side of the screen, a grid of participant avatars is visible. The participants include Shailaja Pede, Pallavi Dhade, Dr. Anuradha Thakare, Yogesh Deshpande, Hemant Selmokar, Dr. Sandhya Arora, Sudhir Dhage, 4 others, and You. The bottom of the screen shows the meeting title "3rd BoS Meeting CSE(AI&ML)Department" and the time "11:29 AM".

meet.google.com/uoq-ohqt-vng

Shailaja Pede is presenting

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Total	45
Textbooks:	
1. Andrew S. Tanenbaum, "Computer Networks", Pearson Education India, 6th Edition, 2021 ISBN: 9780136764052, 0136764053	
2. Fourauzan B., "Data Communications and Networking", 5th Edition, Tata McGraw-Hill Publications, 2013 ISBN: 1259064751 - 9781259064753.	
3. "IoT Fundamentals: Networking Technologies, Protocols, and Use Cases for the Internet of Things", by David Hanes, Gonzalo Salgueiro, Patrick Grossetete, Robert Barton, Jerome Henry; 1st Edition, 2018, Pearson India Pvt. Ltd.	
4. "Internet of Things: A Hands-on Approach", by Arshdeep Bahga and Vijay Madisetti, 1st Edition, 2015, Universities Press (India) Pvt. Ltd.	
Reference Books:	
1. Kurose, Ross "Computer Networking a Top Down Approach Featuring the Internet", Pearson, ISBN-10: 0132856204	
2. "21 Internet of Things (IoT) Experiments: Learn IoT, the Programmer's way", by Yashavant Kanetkar and Shrirang Korde, 1st Edition, 2018, BPB Publications.	
Web References	
1. https://onlinecourses.nptel.ac.in/noc22_cs53/	
2. https://onlinecourses.nptel.ac.in/noc21_ee85/	
3. https://www.cse.wustl.edu/~jain/cse570-15/ftp/iot_prot/index.html	

12:05 PM | 3rd BoS Meeting CSE(AI&ML)Department

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