
	<p>Pimpri Chinchwad Education Trust's Pimpri Chinchwad College of Engineering Sector No. : 26, Pradhikaran, Nigdi, Pune-44</p>	
Minutes of Meeting: 7th Meeting of the Board of Studies on 11th May 2024		

The seventh meeting of the Board of Studies of MCA Department Pimpri Chinchwad College of Engineering was held on Saturday, 11th May 2024 10:30 AM, at the venue MCA Department, Pimpri Chinchwad College of Engineering. The meeting was conducted in hybrid mode. Dr. Suhasini Vijaykumar and Dr. Suhasini Vijaykumar attended the meeting online and rest of the members attended the meeting offline.

The following members were present for the meeting:

Sr. No.	Name of Member	Designation
1	Dr. Manisha Kumbhar	VC Nominee
2	Dr. Suhasini Vijaykumar	Expert from Academia
3	Dr. Pooja Raundale	Expert from Academia
4	Mr. Bhupendra Somwanshi	Expert from Industry
5	Mr. Prashant Shinde	PG Meritorious Alumni
6	Mr. Bali Khurana	Subject Head (Assistant Professor, MCA, PCCOE)
7	Mr. Anand Jain	Subject Head (Assistant Professor, MCA, PCCOE)
8	Mrs. Suchita Borkar	Subject Head (Assistant Professor, MCA, PCCOE)
9	Mr. Rajkamal Sangole	Subject Head (Assistant Professor, MCA, PCCOE)
10	Mr. Prakash Ukhalkar	Subject Head (Assistant Professor, MCA, PCCOE)
11	Dr. Avinash Chormale	Subject Head (Assistant Professor, MCA, PCCOE)

The agenda of the meeting was as mentioned below:

Sr. No.	Description	Action Required
1	Introduction to BoS Members	Information
2	Review and Action taken on 6 th Meeting of BoS	Approval
3	MCA Curriculum Structure (2023-2024)	Information
4	Syllabus of SYMCA (Existing 2023-2024 Pattern)	Discussion and Approval

5	Summary of Changes in Proposed Curriculum Structure	Information
6	Revised Structure (NEP-based) of MCA Curriculum (FY and SY MCA)	Discussion and Approval
7	Detailed Syllabus of FYMCA (2024-2025 Pattern, 3rd Cycle)	Discussion and Approval
8	Any other Point with the Permission of the Chair	

01: BoS Members Welcome and Introduction

- Prof. Anjana Arakerimath, BoS Chairman extended a warm welcome to all the members of BoS for the 7th BoS meeting.

02: Review and Action taken on 6th Meeting of BoS

- BoS Chairman presented MoM of 6th BoS meeting conducted on 27th May 2023, and the Action Taken Report (ATR). All BoS members have confirmed the MoM and ATR.

03: MCA Curriculum Structure (2023-2024)

- BoS Chairman presented the structure of MCA curriculum (2023-2024, FYMCA and SYMCA) during the meeting. She mentioned that the MCA curriculum of 2023-2024 for FYMCA and SYMCA, and, detailed syllabus of FYMCA for 2023-2024 has been sanctioned during previous BoS and Academic Council meetings.
- BoS chairman further mentioned that, the detailed syllabus for existing SYMCA (2024-2025) needs to be discussed, and approved.

04: Syllabus of SYMCA (Existing 2023-2024 Pattern)

- BoS Chairman presented the detailed syllabus during the meeting.
- Mr. Anand Jain (Autonomy Coordinator) explained the elective courses and how they are linked to different career tracks such as Software Development, Data Science, Software Testing and Network Security. He has also explained the process and rules for offering and selecting the elective course.
- After going through the detailed syllabus, following suggestions were given by BoS members:
 - Dr. Manisha Kumbhar suggested that, if there are 2 to 4 students assigned to a guide for seminar guidance then weekly 2 hours of average engagement is sufficient, but if 5 to 10 students are assigned to the guide for seminar guidance then weekly engagement for seminar should be at least 4 hours.

- o Mr. Bhupendra Somwanshi suggested that, students should be allowed to continue the development of Mini Project - 2 during 4th semester also. Department should take this decision based on commercial viability of the project, usefulness of the project for department, institute or society, performance and ability of the student. If student wish to continue with the project Mini Project during the 4th semester, then it should be considered as in-house project and should be assess as Project (MCA24704)

05: Summary of Changes in Curriculum Structure

- BoS chairman mentioned that the MCA department has revised the complete framework of MCA curriculum, to be implemented from 2024-205 for FYMCA students who would take admission to MCA in July/August 2024. She further mentioned that the curriculum is revised with respect to the guidelines given by institute and NEP.
- She has highlighted the major changes made to the existing curriculum:
 - External examination (Oral) for all practical courses
 - Research Project is introduced as one of the mini project
 - Content delivery for programming courses is 100% practical-based
 - Career paths such as Application Development, Data Science, AIML, Networking and Security, Entrepreneurship
 - Revised from 96 credits to 80 credits

06: Revised Structure (NEP-based) of MCA Curriculum (FY and SY MCA)

- BoS Chairman presented the revised structure of MCA First Year and Second Year. She mentioned that the proposed contents of all courses of FYMCA will be implemented from A.Y. 2024-25. She has briefed about the curriculum revision process, where-in she has elaborated about Gap Analysis, Inputs by Experts from Industry and Academia, and Academic Audits.
- The major highlights of the proposed structure are as follows:
 - a) Semester-wise Credits, Hours and Marks (Revised Curriculum w.e.f. 2024-2025)

Semester	Credits	Hours/Week	Marks
I	20	26	500
II	20	28	500
III	20	30	500
IV	20	32	500
Total	80	116	2000

b) Course-wise Credit Distribution

Sr. No.	Type of Course	No. of Courses	Credits	
			No.	%
1	Basic Science Course	2	8	10
2	Programme Core Course	12	24	30
3	Programme Elective Course	7	16	20
4	Open Elective	1	2	2.5
5	Vocational and Skill Enhancement Course	1	2	2.5
6	Ability Enhancement Course	2	4	5
7	Entrepreneurship/Economics/Management Course	2	4	5
8	Experiential Learning Courses	4	20	25
TOTAL		31	80	100

c) Semester-wise Course Distribution

Sr. No.	Type of Course	No. of Courses / Semester				Total
		1	2	3	4	
1	Basic Science Course	1	1	0	0	2
2	Programme Core Course	6	2	4	0	12
3	Programme Elective Course	0	4	2	1	7
4	Open Elective	0	0	0	1	1
5	Vocational and Skill Enhancement Course	0	0	1	0	1
6	Ability Enhancement Course	0	0	2	0	2
7	Entrepreneurship/Economics/Management Course	0	1	0	1	2
8	Experiential Learning Courses	1	1	1	1	4
Total		9	9	10	4	31

07: Syllabus of FYMCA (2024-2025 Pattern, 3rd Cycle)

- BoS Chairman presented the detailed syllabus of MCA First Year. She mentioned that the proposed contents of all courses of FYMCA will be implemented from A.Y. 2024-25.
- BoS chairman presented the following revised structure of MCA First Year and MCA Second Year::

First Year MCA (2024 Course)					
(With effect from Academic Year 2024-2025)					
Semester-I					
Course Code	Course Name	Credit Scheme	Teaching	Evaluation Scheme and	Tot

		Scheme (Hours/Week)							Marks						al
		Credit Scheme				Teaching Scheme			Evaluation Scheme and Marks						
		L	P	T/A	Total	L	P	T/A	IE-1	IE-2	ET E	T W	PR	OR	
MCA31PC01	Software Engineering	2	0	0	2	2	0	0	10	10	30	0	0	0	50
MCA31PC02	Data Structures	2	0	0	2	2	0	0	10	10	30	0	0	0	50
MCA31PC03	Data Communication and Networking	2	0	0	2	2	0	0	10	10	30	0	0	0	50
MCA31PC04	SQL Programming Lab	0	2	0	2	0	4	0	0	0	0	0	30	20	50
MCA31PC05	Java Programming Lab	0	2	0	2	0	4	0	0	0	0	0	30	20	50
MCA31PC06	Python Programming Lab	0	2	0	2	0	4	0	0	0	0	0	30	20	50
MCA31EL01	Research Methodologies and IPR	3	0	1	4	2	0	2	20	20	60	0	0	0	100
MCA31BS01	Mathematical Foundation for Computer Application-1	3	0	1	4	3	0	1	20	20	60	0	0	0	100
Total		11	6	3	20	11	12	3	70	70	210	0	90	60	500

First Year MCA (2024 Course) (With effect from Academic Year 2024-2025)															
Semester-II															
Course Code	Course Name	Credit Scheme				Teaching Scheme (Hours/Week)			Evaluation Scheme and Marks						Total
		Credit Scheme				Teaching Scheme			Evaluation Scheme and Marks						
		L	P	T/A	Total	L	P	T/A	IE-1	IE-2	ET E	T W	PR	OR	
MCA32PC07	Operating System Concepts	2	0	0	2	2	0	0	10	10	30	0	0	0	50

MCA32PC08	Web Technologies Lab	0	2	0	2	0	4	0	0	0	0	0	0	30	20	50
MCA32PE01 to MCA32PE04	Elective-1	2	0	0	2	2	0	0	10	10	30	0	0	0	0	50
MCA32PE09 to MCA32PE12	Elective-2	2	0	0	2	2	0	0	10	10	30	0	0	0	0	50
MCA32PE05 to MCA32PE08	Elective-1 Lab	0	2	0	2	0	4	0	0	0	0	0	0	30	20	50
MCA32PE13 to MCA32PE16	Elective-2 Lab	0	2	0	2	0	4	0	0	0	0	0	0	30	20	50
MCA32EM01	Project Management	2	0	0	2	2	0	0	10	10	30	0	0	0	0	50
MCA32BS02	Mathematical Foundation for Computer Application-2	3	0	1	4	3	0	1	20	20	60	0	0	0	0	100
MCA32EL02	Research Project	0	2	0	2	0	4	0	0	0	0	50	0	0	0	50
Total		11	8	1	20	11	16	1	60	60	180	50	90	60	500	

Second Year MCA (2024 Course)															
(With effect from Academic Year 2025-2026)															
Semester-I															
Course Code	Course Name	Credit Scheme				Teaching Scheme (Hours/Week)			Evaluation Scheme and Marks						Total
		L	P	T/A	Total	L	P	T/A	CIE		ET	TW	PR	OR	
									IE-1	IE-2					
MCA33PC09	Advanced Database Management	2	0	0	2	2	0	0	10	10	30	0	0	0	50
MCA33PC10	Advanced Web Technologies	2	0	0	2	2	0	0	10	10	30	0	0	0	50
MCA33PC11	Advanced Web Technologies	0	2	0	2	0	4	0	0	0	0	0	30	20	50

	Lab															
MCA33PC12	Mobile Application Development Lab	0	2	0	2	0	4	0	0	0	0	0	30	20	50	
MCA33PE17 to MCA33PE20	Elective-3	2	0	0	2	2	0	0	10	10	30	0	0	0	50	
MCA33PE21 to MCA33PE24	Elective-3 Lab	0	2	0	2	0	4	0	0	0	0	0	30	20	50	
MCA33AE01	Seminar	0	0	2	2	0	0	2	0	0	0	50	0	0	50	
MCA33AE02	Professional Development Training	0	0	2	2	0	0	2	0	0	0	50	0	0	50	
MCA33VS01 to MCA33VS02	Skill Enhancement	0	2	0	2	0	4	0	0	0	0	50	0	0	50	
MCA33EL03	Mini Project	0	2	0	2	0	4	0	0	0	0	50	0	0	50	
Total		6	10	4	20	6	20	4	30	30	90	200	90	60	500	

Second Year MCA (2024 Course) (With effect from Academic Year 2025-2026)															
Semester-II															
Course Code	Course Name	Credit Scheme				Teaching Scheme (Hours/Week)			Evaluation Scheme and Marks						Total
		L	P	T/A	Total	L	P	T/A	CIE		ET E	T W	PR	OR	
									IE-1	IE-2					
MCA34EM02	Emerging Trends in IT	0	0	2	2	0	0	2	0	0	0	50	0	0	50
MCA34OE01	MOOC	0	0	2	2	0	0	2	0	0	0	50	0	0	50
MCA34EL04	Internship	0	12	0	12	0	24	0	0	0	0	150	0	150	300
MCA34PE25 to MCA34PE28	Elective-4	3	0	1	4	3	0	1	20	20	60	0	0	0	100
Total		3	12	5	20	3	24	5	20	20	60	250	0	150	500

List of Courses – Programme Elective Courses (First Year MCA)

FYMCA (Sem II)			
Course Code	Elective 1	Course Code	Elective 2
MCA32PE01	Data Warehouse and Data	MCA32PE09	Data Science

	Mining		
MCA32PE02	Web Development using Django	MCA32PE10	Cloud Computing
MCA32PE03	UI/UX Design	MCA32PE11	DevOps
MCA32PE04	Entrepreneurship and Innovation	MCA32PE12	Design Thinking and Problem Solving
MCA32PE05	Data Warehouse and Data Mining Lab	MCA32PE13	Data Science Lab
MCA32PE06	Web Development using Django Lab	MCA32PE14	Cloud Computing Lab
MCA32PE07	UI/UX Design Lab	MCA32PE15	DevOps Lab
MCA32PE08	Entrepreneurship and Innovation Lab	MCA32PE16	Design Thinking and Problem Solving Lab

List of Courses – Programme Elective Courses (Second Year MCA)

SYMCA (Sem I)		SYMCA (Sem II)	
Course Code	Elective 3	Course Code	Elective 4
MCA33PE17	Advanced Data Science	MCA34PE25	Blockchain
MCA33PE18	Network Security	MCA34PE26	Decision Science
MCA33PE19	Dynamic Application Development and Frameworks	MCA34PE27	Advanced Network Security and Cryptography
MCA33PE20	Business Model Prototype Design	MCA34PE28	Start up and New Venture management
MCA33PE21	Advanced Data Science Lab		
MCA33PE22	Network Security Lab		
MCA33PE23	Dynamic Application Development and Frameworks Lab		
MCA33PE24	Business Model Prototype Design Lab		

● **BoS Suggestions and Observations**

- Mr. Bhupendra Somwanshi asked to explain the thread of Web Development in detail along with the course contents. Mr. Anand Jain presented the course contents of Web Technologies Lab, (MCA32PC08), UI/UX Design (MCA32PE03). He has also explained the linking with SYMCA course Dynamic Application Development and Frameworks (MCA33PE19), and how these courses are helpful for students to enter into the career of full-stack development. After going through the contents and related explanation, Mr.

Bhupendra Somwanshi appreciated the overall efforts and quality of course contents.

- JavaScript related topics are part of courses related to Web Development. Mr. Prashant Shine suggested to replace the JavaScript related contents with Type Script. He mentioned that the current trends are using Type Script in full stack development, instead of JavaScript. Type Script is more powerful technology than JavaScript.
- BoS members observed that SQL Programming Lab course is not covering the contents related to Database Design and ER Diagram. All members have suggested to provide the knowledge of database design and ER Diagram to all students.
- Dr. Manisha Kumbhar suggested that, if there are 2 to 4 students assigned to a guide for seminar guidance then weekly 2 hours of average engagement is sufficient, but if 5 to 10 students are assigned to the guide for seminar guidance then weekly engagement for seminar should be at least 4 hours.
- Mr. Bhupendra and Mr. Prashant mentioned that there is demand for the people who possess the skill of DevOps, in IT industries. But DevOps is more suitable for the people who have some work experience. Most of the tools which are part of DevOps are not open source. Department may have to purchase some tools. Further, conducting the theory exam on DevOps does not make sense, because DevOps is related to learning various tools and making the configurations to get the job done. On this note, they suggested to remove the DevOps and add other technical course.
- Mr. Bhupendra Somwanshi suggested that, students should be allowed to continue the development of Mini Projects during 3rd and 4th semesters also. Department should take this decision based on commercial viability of the project, usefulness of the project for department, institute or society, performance and ability of the student. If student wish to continue with the project Mini Project during the 4th semester, then it should be considered as in-house project and should be assess as Internship (MCA34EL04)
- BoS members suggested to change the sequence of management electives offered during 2nd, 3rd and 4th semester. Further, they have suggested the following titles for the management electives:
 - Start-Up and New Venture Development
 - Business Opportunity Identification
 - Startup Management Essentials
 - Entrepreneurial Marketing

- All members of BoS approved rest of the contents of the syllabus.

08: Discussion on other Points

a) Current Execution of Mini Project Work and Further Enhancement

- i) Mrs. Anjana Arakerimath and Mr. Anand Jain explained about the execution of mini project work in the department. During the discussion, it was observed that, after completion, the developed projects are failing to achieve the industry standard, and because of this, chances of commercializing the projects or utilizing that project in-house are minimizing.
- ii) To improve the quality of mini projects and major project, Mr. Bhupendra Somwanshi and Mr. Prashant Shinde suggested the following approach:
 - 1) Mini project duration is 3 to 4 months only. Project development is a long process, and accordingly sufficient time should be given to it. In this regards, they suggested to continue the development of same project by same or different group of students during 2nd, 3rd and 4th semester.
 - 2) Project statements shall be given by the department. Department may also consider project idea by students case by case.
 - 3) Being the industry expert, they can help to:
 - (a) define the detailed project statement, objective, scope
 - (b) design the project architecture
 - (c) prepare and provide necessary documentation
 - (d) breakdown the project work into modules and smaller functionalities
 - (e) guide faculties and students about the implementation of assigned tasks, once or twice every month

BoS members acknowledged the online presence of Dr. Suhasini and Dr. Pooja. The meeting was concluded with vote of thanks by BoS Chairman.



Mrs. [Anjana Arakerimath](#)
(BoS Chairman, HOD-MCA)