

SJCEM/MCA/ 001/ of Dec 2024

Date: 24/12/2024

Department of Master of Computer Application (MCA)

1st Board of Studies (BoS) Meeting of Master of Computer Application (MCA) Department
conducted on 24th December 2024 (Tuesday)

Minutes of the Meeting

Agenda

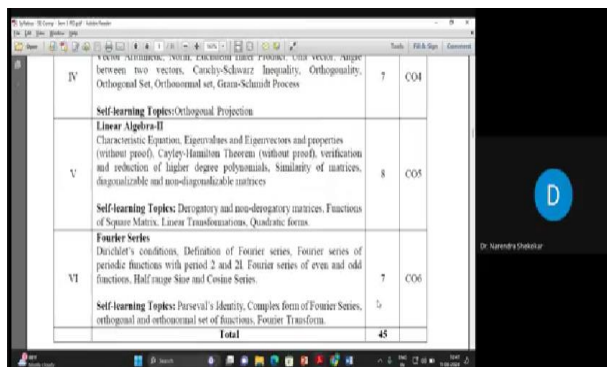
For approval

1. To review and discuss on Curriculum design, development, and Implementation w.r.t NEP 2020 and Autonomy requirements
2. Approval of scheme SJCEM R-24 w.e.f. 2024-25 for Academic Year 2024-25 of First Year Master Of Computer Application (MCA).
3. To discuss and review the Academic productivity in classroom and laboratory to meet the requirement of Outcome based Education
4. To discuss and review the Evaluation and Assessment methods and finalization for panel of Examiners for theory and lab courses for Academic Year 2024-25.
5. To review and discuss improvements required for effective teaching learning process, project quality, and semester conduct w.r.t reports received from Academic Performance Audit, NBA, and NAAC.

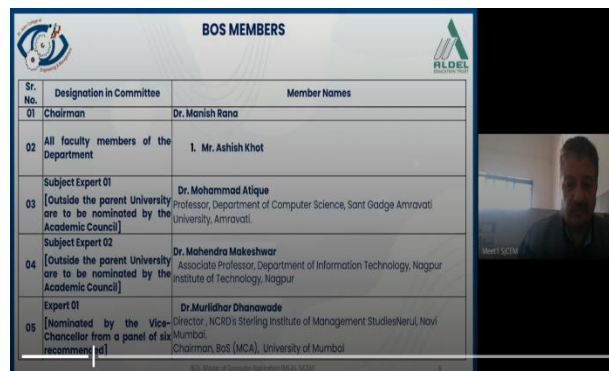
Following Members were present for BOS Meeting

Sr. No.	Name and Affiliation of BOS Members	Designation in BOS Committee	Mode of Presence in BOS Meeting
1.	Dr. Manish Rana, Associate Professor & HOD, Master of Computer Application(MCA) St. John College of Engineering and Management, Palghar	BOS Chairman	Offline
2.	Dr. Murlidhar Dhanawade. Director, Sterling Institute of management Studies, Nerul, Navi-Mumbai. MCA BoS Chairman, University of Mumbai.	VC Nominee, University of Mumbai	Online
3.	Dr. Mohammad Atique Professor & HOD, Department of Computer Science, Sant Gadge Amravati University, Amravati.	Subject Expert 01 Outside the parent University	Online
4.	Dr. Mahendra Makeswar Associate Professor & HOD, Department of	Subject Expert 02 Outside the parent	

	Information Technology, Nagpur Institute of Technology, Nagpur	University	Online
5.	Mr. Saurabh Patel Test Engineer, Ideate Labs, Andheri West.	Expert from Industry/corporate sector/allied areas	Online
6.	Mr. Hiren Anand Software Quality Analyst, eClinical Works, Ahmedabad	Alumni Member	Online
7.	Prof. Tejas Vijay Joshi HOD MCA, Finolex Academy of Management and Technology, Ratnagir	Experts from outside the Autonomous College	Online
8.	Mr. Ashish Khot Faculty MCA, SJCEM	Member	Offline



IV	Vector, Parametric, Polar, Cylindrical, Spherical, Curvilinear, Unit vectors, range between two vectors, Cauchy-Schwarz inequality, Orthogonality, Orthogonal Set, Orthogonal set, Gram-Schmidt Process	7	CO1
Self-learning Topics: Orthogonal Projection			
Linear Algebra-II			
Characteristic Equation, Eigenvalues and Eigenvectors and properties (without proof), Cayley-Hamilton Theorem (without proof), verification and reduction of higher degree polynomials, Similarity of matrices, diagonalizable and non-diagonalizable matrices			
V		8	CO5
Self-learning Topics: Derivatory and non-derivatory matrices, Functions of Square Matrix, Linear Transformations, Quadratic forms.			
Fourier Series			
Dirichlet's conditions, Definition of Fourier series, Fourier series of periodic functions with period 2 and 2l, Fourier series of even and odd functions, Half range Sine and Cosine Series.			
VI		7	CO6
Self-learning Topics: Parseval's Identity, Complex form of Fourier Series, orthogonal and orthonormal set of functions, Fourier Transform.			
Total			45



Sr. No.	Designation in Committee	Member Names
01	Chairman	Dr. Manish Rana
02	All faculty members of the Department	1. Mr. Ashish Khot
03	Subject Expert 01 [Outside the parent University are to be nominated by the Academic Council]	Dr. Mohammad Atique Professor, Department of Computer Science, Sant Gadge Amravati University, Amravati.
04	Subject Expert 02 [Outside the parent University are to be nominated by the Academic Council]	Dr. Mahendra Madeshwar Associate Professor, Department of Information Technology, Nagpur Institute of Technology, Nagpur
05	Expert 01 [Nominated by the Vice-Chancellor from a panel of six recommendees]	Dr. Murlidhar Dhanawade Director, NCRD's Sterling Institute of Management Studies, Newli, Mumbai. Chairman, BOS (MCA), University of Mumbai

Initially BoS Chairman Dr. Manish Rana welcomes all the members, and introduced all BOS Members and initiated the meeting. Dr. Manish Rana briefed the agenda of the 1st BoS meeting to all the members.

Agenda 1

To review and discuss on Curriculum design, development, and Implementation w.r.t NEP 2020 and Autonomy requirements.

Resolution 1

Curriculum design, development, and Implementation w.r.t NEP 2020 and Autonomy requirements reviewed and resolved that Master of Computer Application (MCA) Department follows guidelines from UGC and AICTE for credit distribution (Total 88 Credits from first year to final year).

Agenda 2

Approval of scheme SJCEM R-24 w.e.f. A. Y. 2024-25 for First Year, Master of Computer Application (MCA) Program

Resolution 2

The BOS approved the scheme and syllabus SJCEM : R-24 for A.Y. 2024-25 for First & Second Semester with few changes recommended of MCA in (Master of Computer Application) Program as follows:.

The scheme is shown below for semester 1st & 2nd .

**First Year
Semester – I
SCHEME: SJCEM R–24**

Course Code	Vertical	Course Name	Contact Hrs.			Credit Allotted			Total Credits
			Th	Tut	Pr	Th	Tut	Pr	
24MCABSC101	BSC	Linear Algebra	3	1	-	3	1	-	4
24MCAPCC101	PCC	Data Structures	3	-	2	3	-	1	4
24MCAPCC102	PCC	Database Management System	3	-	2	3	-	1	4
24MCAPCC103	PCC	Web Technologies	3	-	2	3	-	1	4
24MCAAEC101	AEC	Basic Communication Skills -I	2	1	-	2	1	-	3
24MCAECC101	ECC	Liberal Learning – Yoga and Meditation	-	-	2	-	-	1	1
Total			14	2	8	14	2	4	20

Course Code	Vertical	Course Name	Evaluation Scheme					Total
			IAE 1	IAE 2	ESE	CA	OR/PR	
24MCABSC101	BSC	Linear Algebra	20	20	60	25	-	125
24MCAPCC101	PCC	Data Structures	20	20	60	25	25	150
24MCAPCC102	PCC	Database Management System	20	20	60	25	25	150
24MCAPCC103	PCC	Web Technologies	20	20	60	25	25	150
24MCAAEC101	AEC	Basic Communication Skills -I	20	20	60	25	-	125
24MCAECC101	ECC	Liberal Learning – Yoga and Meditation	-	-	-	25	-	25
Total			100	100	300	150	75	725

**First Year
Semester – II
SCHEME: SJCEM R–24**

Course Code	Vertical	Course Name	Contact Hrs.			Credit Allotted			Total Credits
			Th	Tut	Pr	Th	Tut	Pr	
24MCABSC201	BSC	Probability and Statistics	3	1	-	3	1	-	4
24MCAPCC201	PCC	Java Programming	2	-	4	2	-	2	4
24MCAPCC202	PCC	Design and Analysis of Algorithms	3	-	2	3	-	1	4
24MCAPCC203	PCC	Process Automation	3	-	2	3	-	1	4
24MCAPEC201X	PEC	Program Elective-I	3	-	2	3	-	1	4
24MCASBC202	AEC	Basic Communication Skills -II	-	2	-	-	1	-	1
24MCAHSEX2	IKS	Introduction to IKS	2	-	-	2	-	-	2
		Total	16	3	10	16	2	5	23

Course Code	Vertical	Course Name	Evaluation Scheme					Total
			IAE 1	IAE 2	ESE	CA	OR/PR	
24MCABSC201	BSC	Probability and Statistics	20	20	60	25	-	125
24MCAPCC201	PCC	Java Programming	20	20	60	25	25	150
24MCAPCC202	PCC	Design and Analysis of Algorithms	20	20	60	25	25	150
24MCAPCC203	PCC	Process Automation	20	20	60	25	-	125
24MCAPEC201X	PEC	Program Elective-I	20	20	60	25	25	150
24MCASBC202	AEC	Basic Communication Skills -II	-	-	-	50	-	50
24MCAHSEX2	IKS	Introduction to IKS	-	-	-	25	-	25
		Total	100	100	300	200	75	775

PROGRAM ELECTIVES

Sr. No.	Program	Program Elective I	Program Elective II	Program Elective III
1	Data Science	Machine Learning (24MCAPEC2011)	Deep Learning (24MCAPEC2012)	Data Visualization and Analytics (24MCAPEC2013)
2	Software Testing	Software Testing (24MCAPEC2014)	Quality Assurance (24MCAPEC2015)	Risk Analysis (24MCAPEC2016)
3	Design	Design Thinking** (24MCAPEC2017)	Human Machine Interaction (24MCAPEC2018)	User Experience Design (24MCAPEC2019)
4	Full Stack Development	DevOps (24MCAPEC2020)	React (24MCAPEC2021)	Springboot and Microservices (24MCAPEC2022)
5	Any new program approved by BoS			

****24MCAPEC2017 of 4 credits will be offered with 2 credits for theory and 2 credits for laboratory.**

All the modified schemes and syllabus (Semester 1 to 2) are forwarded to academic council for approval.

Agenda 3

To discuss and review the Academic productivity in classroom and laboratory to meet the requirement of Outcome based Education

Resolution 3

Academic productivity in classroom and laboratory to meet the requirement of Outcome based Education is reviewed and confirmed

Following suggestions were given:

1. Two case studies and a report written by the students to be prepared for the project evaluation.
2. Open Book Exams to encourage student writing skills
3. Practical exams should be based on industry concept
4. Student should be encourage for Mini-projects covering the entire syllabus.

Agenda 4

To discuss and review the Evaluation and Assessment methods and finalization for panel of Examiners for theory and lab courses.

Resolution 4

Evaluation and assessment scheme is shown in the syllabus of respective subjects. Evaluation and Assessment methods was reviewed and confirmed. Panel of Examiners for theory and lab courses was reviewed and confirmed

Evaluation and Assessment Scheme:

A. Internal Assessment Examination (IAE):

Assessment consists of two class tests, each 20 marks. The IAE 1 will cover any three Course Outcomes (COs) and IAE 2 will cover the remaining three Course Outcomes (COs). Each test will have a duration of one hour.

B. End Semester Theory Examination (ESE):

End Semester exam of 60 Marks will be conducted based on the entire syllabus.

C. Continuous Assessment (CA) :

Continuous Assessment should consist of the following

Experiments / Tutorials (8 to 10): 10 marks (All COs / LOs should be covered)

Attendance (Theory & Practical): 05 marks

Teacher Assessment Examination (TAE): 10 Marks

List of Teacher Assessment Examination (TAE):

1. Assignment
2. Case Study
3. Debate
4. Solution for Social Problems
5. Field Visit
6. Group Project
7. Flip Classroom
8. Topic Review
9. Quiz
10. Mind Mapping
11. Any other

Note: Number of activities to be conducted under TAE would be as per the subject need.

D. Oral & Practical Exam

Based on the entire syllabus, oral (10 marks) & practical/implementation (15 marks) examination will be conducted.

Examiner Panel

Course Code	Vertical	Course Name	Examiner 1	Examiner 2	Examiner 3
24MCABSC101	BSC	Linear Algebra	Dr. Manish Rana, SJCEM 9869230183, manishr@sjcem.edu.in	Mr. Ashish Khot, SJCEM 9730323890, ashishkhot@sjcem.edu.in	Dr. Sunny Sall, 8976226221,sunnys@sjcem.edu.in
24MCAPCC101	PCC	Data Structures	Mr. Ashish Khot, SJCEM 9730323890, ashishkhot@sjcem.edu.in	Dr. Manish Rana, SJCEM 9869230183, manishr@sjcem.edu.in	Dr. Amruta Mhatre, 8108315449, amrutam@sjcem.edu.in
24MCAPCC102	PCC	Database Management System	Mr. Ashish Khot, SJCEM 9730323890, ashishkhot@sjcem.edu.in	Dr. Manish Rana, SJCEM 9869230183, manishr@sjcem.edu.in	Dr. Amruta Mhatre, 8108315449, amrutam@sjcem.edu.in
24MCAPCC103	PCC	Web Technologies	Mr. Ashish Khot, SJCEM 9730323890, ashishkhot@sjcem.edu.in	Dr. Manish Rana, SJCEM 9869230183, manishr@sjcem.edu.in	Dr. Amruta Mhatre, 8108315449, amrutam@sjcem.edu.in
24MCAAEC101	AEC		Dr. Manish Rana, SJCEM	Mr. Ashish Khot, SJCEM	Dr. Sunny Sall, 8976226221,sunnys@sjcem.edu.in

		Basic Communication Skills -I	9869230183, manishr@sjcem.edu.in	9730323890, ashishkhot@sjcem.edu.in	
24MCAECC101	ECC	Liberal Learning – Yoga and Meditation	Dr. Manish Rana, SJCEM 9869230183, manishr@sjcem.edu.in	Mr. Ashish Khot, SJCEM 9730323890, ashishkhot@sjcem.edu.in	Dr. Sunny Sall, 8976226221,sunnys@sjcem.edu.in

Agenda 5

To review and discuss improvements required for effective teaching learning process, project quality, and semester conduct w.r.t reports received from Academic Performance Audit, NBA, and NAAC.

Resolution 5

Improvements required for effective teaching learning process, project quality, and semester conduct w.r.t reports received from Academic Performance Audit, NBA, and NAAC is discussed and it is resolved that project based learning should improve with problem statement from sustainable development goals.

Meeting was ended with vote of thanks proposed by Mr. Ashish Khot.

BOS Chairman
Master Computer Application (MCA)
Department