

Date: 15/06/2024

## Department of Applied Sciences and Humanities

The University Grant Commission, via Letter No. F. 2 – 10 / 2023 (AC – Policy) dated 19th January 2024, conferred autonomous status to St. John College of Engineering and Management, Village Vevoor, Manor Road, Palghar (East), 401404, Mumbai 400050, affiliated with the University of Mumbai. Meeting of 1<sup>st</sup> Board of Studies (BoS) of Applied Sciences and Humanities Department conducted in Hybrid mode on 11<sup>th</sup> June 2024 (Tuesday) at 10.30 am.

### Minutes of the Meeting

#### Following Members were present for BOS Meeting

Sr. No.	Name and Affiliation of BOS Members	Designation in BOS Committee
1.	<b>Mrs. Dipti Lopes,</b> Assistant Professor & HOD, Applied Sciences and Humanities, St. John College of Engineering and Management, Palghar.	BOS Chairman
2.	<b>Dr. Trupti S. Paradkar</b> Associate Professor, (ASH - Chemistry), D. J. Sanghvi College of Engineering, Ville Parle, Mumbai	VC Nominee, University of Mumbai
3.	<b>Dr. Rachana Desai</b> Associate Professor, Department of Science and Humanities, K J Somaiya College of Engineering (KJSCE), Somaiya Vidyavihar University (SVU)	Subject Expert 01 Outside the parent University
4.	<b>Dr. K. Jyothi Damodara,</b> Professor & Head (Chemistry), St. Joseph Engineering College, Mangaluru.	Subject Expert 02 Outside the parent University
5.	<b>Mr. Sandeep Jha</b> Vice President, GMoney Pvt. Ltd. Andheri, Mumbai	Expert from Industry/corporate sector/allied areas
6.	<b>Mrs. Sharvari Patil, (AY 2008-12)</b> Assistant Professor, D. J. Sanghavi College of Engineering, Mumbai	Alumni Member
7.	<b>Dr. K. N. Vijaya Kumar</b> Professor & Head (Mechanical Engineering), D. J. Sanghavi College of Engineering, Mumbai	Experts from outside the Autonomous College
8.	<b>Mrs. Uttara Dalvi</b> Assistant Professor, ASH Department, SJCEM	Member
9.	<b>Mr. Avinash Chavan</b> Assistant Professor, ASH Department, SJCEM	Member

10.	<b>Mrs. Dhanashree Pawgi</b> Assistant Professor, ASH Department, SJCEM	Member
11.	<b>Ms. Reshma Chavan</b> Assistant Professor, ASH Department, SJCEM	Member
12.	<b>Ms. Divya Mali</b> Assistant Professor, ASH Department, SJCEM	Member
13.	<b>Mrs. Subhasini Shukla</b> Assistant Professor, ASH Department, SJCEM	Member
14.	<b>Dr. Eknath Patil</b> Assistant Professor, ASH Department, SJCEM	Member
15.	<b>Mrs. Suvarna More</b> Assistant Professor, ASH Department, SJCEM	Member
16.	<b>Mr. Rahul Mishra</b> Assistant Professor, ASH Department, SJCEM	Member
17.	<b>Mr. Shubham Nanal</b> Assistant Professor, ASH Department, SJCEM	Member

BOS Chairman Mrs. Dipti Lopes welcome all the members and initiated the meeting.

**Item 1: To review and discuss on Curriculum design, development, and Implementation w. r. t. NEP 2020 and Autonomy requirements**

**Resolution:** Curriculum design, development and Implementation w.r.t NEP 2020 and Autonomy requirements. The BOS has accepted and recommended the scheme SJCEM: R-24 for A.Y. 2024-25 for Semester 1 and 2 of B. Tech. These are forwarded to Academic Council.

## Credits Comparison (reference – GR no : NEP-2022/(67/23)/TE-2)

Semester		SEM I Credits Suggested	SEM I Credits Taken	SEM II Credits Suggested	SEM II Credits Taken
Basic Science	BSC / ESC	06 – 08	08	08 - 10	08
Engineering Science Course		10 – 08	08	06 – 04	06
Program Core Course (PCC)	Program Courses	--	--	02	04
Program Elective Course (PEC)		--	--	--	--
Multidisciplinary Minor (MD M)	Multidisciplinar y Courses	--	--	--	--
Open Elective (OE) other than a particular program		--	--	--	--
Vocational and Skill Enhancement Courses (VSEC)	Skill Courses	02	02	02	01
Ability Enhancement Course (AEC-01, AEC-02)	Humanities Social Science and Management (HSSM)	02	03	--	--
Entrepreneurship / Economics / Management courses		--	--	--	--
Indian Knowledge System (IKS)		--	--	02	02
Value Education Course (VEC)		--	--	--	--
Research Methodology	Experimental Learning courses	--	--	--	--
Comm. Engineering Project (CEP) / Field Project (FP)		--	--	--	--
Project		--	--	--	--
Internship / OJT		--	-	--	--
Co-curricular Course (CC)	Liberal Learning Courses	02	01	02	01
<b>Total Credits (Major)</b>		<b>20-22</b>	<b>22</b>	<b>20-22</b>	<b>22</b>

**First Year  
Semester – I  
SCHEME: SJCEMR–24  
Group A**

Course Code	Vertical	Course Name	Contact Hrs			Credit Allotted			Total Credits
			Th	Tut	Pr	Th	Tut	Pr	
24FEBS101	BSC	Engineering Mathematics – I	3	1	0	3	1	0	4
24FEBS102	BSC	Engineering Physics	2	1	2	2	1	1	4
24FEES101	ESC	Engineering Mechanics	3	0	2	3	0	1	4
24FEES102	ESC	Problem Solving Skills using C++	2	0	4	2	0	2	4
24FELSC101	VSEC	Basic Workshop Practice – I	0	0	4	0	0	2	2
24FEAEC102	AEC	Basic Communication Skills -I	2	1	0	2	1	0	3
24FECC101	CC	Liberal Learning – Yoga and Meditation	0	0	2	0	0	1	1
<b>Total</b>			<b>12</b>	<b>3</b>	<b>14</b>	<b>12</b>	<b>3</b>	<b>7</b>	<b>22</b>

Course Code	Vertical	Course Name	Evaluation Scheme					Total
			Theory			Practical		
			IAE 1	IAE 2	ESE	CA	OR/PR	
24FEBS101	BSC	Engineering Mathematics – I	20	20	60	25	--	125
24FEBS102	BSC	Engineering Physics	20	20	60	25	--	125
24FEES101	ESC	Engineering Mechanics	20	20	60	25	25	150
24FEES102	ESC	Problem Solving Skills using C++	20	20	60	25	25	150
24FELSC101	VSEC	Basic Workshop Practice – I	--	--	--	50	--	50
24FEAEC102	AEC	Basic Communication Skills -I	20	20	60	25	--	125
24FECC101	CC	Liberal Learning – Yoga and Meditation	--	--	--	25		25
<b>Total</b>			<b>100</b>	<b>100</b>	<b>300</b>	<b>200</b>	<b>50</b>	<b>750</b>

**First Year  
Semester – I  
SCHEME: SJCEMR–24  
Group B**

Course Code	Vertical	Course Name	Contact Hrs			Credit Allotted			Total Credits
			Th	Tut	Pr	Th	Tut	Pr	
24FEBS101	BSC	Engineering Mathematics – I	3	1	0	3	1	0	4
24FEBS202	BSC	Engineering Chemistry	2	1	2	2	1	1	4
24FEES101	ESC	Engineering Mechanics	3	0	2	3	0	1	4
24FEES102	ESC	Problem Solving Skills using C++	2	0	4	2	0	2	4
24FELSC101	VSEC	Basic Workshop Practice – I	0	0	4	0	0	2	2
24FEAEC102	AEC	Basic Communication Skills -I	2	1	0	2	1	0	3
24FECC20X	CC	Liberal Learning – Sports/dance/theatre/photography	0	0	2	0	0	1	1
<b>Total</b>			<b>12</b>	<b>3</b>	<b>14</b>	<b>12</b>	<b>3</b>	<b>7</b>	<b>22</b>

Course Code	Vertical	Course Name	Evaluation Scheme					Total
			Theory			Practical		
			IAE 1	IAE 2	ESE	CA	OR/PR	
24FEBS101	BSC	Engineering Mathematics – I	20	20	60	25	--	125
24FEBS202	BSC	Engineering Chemistry	20	20	60	25	--	125
24FEES101	ESC	Engineering Mechanics	20	20	60	25	25	150
24FEES102	ESC	Problem Solving Skills using C++	20	20	60	25	25	150
24FELSC101	VSEC	Basic Workshop Practice – I	--	--	--	50	--	50
24FEAEC102	AEC	Basic Communication Skills -I	20	20	60	25	--	125
24FECC20X	CC	Liberal Learning – Sports/dance/theatre/photography	--	--	--	25	--	25
<b>Total</b>			<b>100</b>	<b>100</b>	<b>300</b>	<b>200</b>	<b>50</b>	<b>750</b>

IAE: Internal Assessment Examination, ESE: End Semester Examination, CA-Continuous Assessment

Learners who are assigned Group A in Semester I will be offered Group B in Semester II and Vice versa.

**First Year  
Semester – II  
SCHEME: SJCEMR–24  
Group A**

Course Code	Vertical	Course Name	Contact Hrs			Credit Allotted			Total Credits
			Th	Tut	Pr	Th	Tut	Pr	
24FEBS201	BSC	Engineering Mathematics – II	3	1	0	3	1	0	4
24FEBS202	BSC	Engineering Chemistry	2	1	2	2	1	1	4
24FEES201	ESC	Engineering Graphics (AutoCAD)	1	0	4	1	0	2	3
24FEES202	ESC	Basic of Electrical & Electronics Engineering	2	0	2	2	0	1	3
24FEPCC201	PCC	Object Oriented Programming using Java	2	0	4	2	0	2	4
24FEAC201	AC	Applied Engineering	1	0	0	A*	0	0	A*
24FELSC201	VSEC	Basic Workshop Practice - II	0	0	2	0	0	1	1
24FEIKS201	IKS	Introduction to IKS	2	0	0	2	0	0	2
24FECC20X	CC	Liberal Learning - Sports/dance/theatre/photography	0	0	2	0	0	1	1
<b>Total</b>			<b>13</b>	<b>2</b>	<b>16</b>	<b>12</b>	<b>2</b>	<b>8</b>	<b>22</b>

Course Code	Vertical	Course Name	Evaluation Scheme					Total
			Theory			Practical		
			IAE 1	IAE 2	ESE	CA	OR/PR	
24FEBS201	BSC	Engineering Mathematics – II	20	20	60	25	--	125
24FEBS202	BSC	Engineering Chemistry	20	20	60	25	--	125
24FEES201	ESC	Engineering Graphics (AutoCAD)	20	20	60	25	--	125
24FEES202	ESC	Basic of Electrical & Electronics Engineering	20	20	60	25	--	125
24FEPCC201	PCC	Object Oriented Programming using Java	20	20	60	25	25	150
24FEAC	AC	Applied Engineering	-	-	--	25	--	25
24FELSC201	VSEC	Basic Workshop Practice - II	--	--	--	50	--	50
24FEIKS201	IKS	Introduction to IKS	20	20	60	--	--	100
24FECC20X	CC	Liberal Learning - Sports/dance/theatre/photography	--	--	--	25	--	25
<b>Total</b>			<b>120</b>	<b>120</b>	<b>360</b>	<b>225</b>	<b>25</b>	<b>850</b>

A\* - Audit Course

**First Year  
Semester – II  
SCHEME: SJCEMR–24  
Group B**

Course Code	Vertical	Course Name	Contact Hrs			Credit Allotted			Total Credits
			Th	Tut	Pr	Th	Tut	Pr	
24FEBS201	BSC	Engineering Mathematics – II	3	1	0	3	1	0	4
24FEBS102	BSC	Engineering Physics	2	1	2	2	1	1	4
24FEES201	ESC	Engineering Graphics (AutoCAD)	1	0	4	1	0	2	3
24FEES202	ESC	Basic of Electrical & Electronics Engineering	2	0	2	2	0	1	3
24FEPCC201	PCC	Object Oriented Programming using Java	2	0	4	2	0	2	4
24FEAC201	AC	Applied Engineering	1	0	0	A*	0	0	A*
24FELSC201	VSEC	Basic Workshop Practice - II	0	0	2	0	0	1	1
24FEIKS201	IKS	Introduction to IKS	2	0	0	2	0	0	2
24FECC101	CC	Liberal Learning – Yoga And Meditation	0	0	2	0	0	1	1
<b>Total</b>			<b>13</b>	<b>2</b>	<b>16</b>	<b>12</b>	<b>2</b>	<b>8</b>	<b>22</b>

Course Code	Vertical	Course Name	Evaluation Scheme					Total
			Theory			Practical		
			IAE 1	IAE 2	ESE	CA	OR/PR	
24FEBS201	BSC	Engineering Mathematics – II	20	20	60	25	--	125
24FEBS102	BSC	Engineering Physics	20	20	60	25	--	125
24FEES201	ESC	Engineering Graphics (AutoCAD)	20	20	60	25	--	125
24FEES202	ESC	Basic of Electrical & Electronics Engineering	20	20	60	25	--	125
24FEPCC201	PCC	Object Oriented Programming using Java	20	20	60	25	25	150
24FEAC201	AC	Applied Engineering	-	-	--	25	--	25
24FELSC201	VSEC	Basic Workshop Practice - II	--	--	--	50	--	50
24FEIKS201	IKS	Introduction to IKS	20	20	60	--	--	100
24FECC101	CC	Liberal Learning – Yoga and Meditation	--	--	--	25	--	25
<b>Total</b>			<b>120</b>	<b>120</b>	<b>360</b>	<b>225</b>	<b>25</b>	<b>850</b>

A\* - Audit Course

**Detail syllabus is attached as Annexure I as a booklet**

## Item 2: Identification of areas for improvement and enhancement.

**Resolution:** Detailed syllabus of all the subjects was presented and suggestions were noted.

It was unanimously resolved to incorporate following points in the syllabus.

- Use of higher level RBT verbs for framing Course Outcomes for each subject.
- Adding Self-learning topics, separate list of textbooks and reference books with edition, publisher details, useful links, list of Teaching Pedagogies.
- Inclusion of both Practical and Tutorial component for Basic Science Subjects.
- Replace Plumbing with 3D Printing in BWP-I.
- Assessment tool freedom to faculty – Teacher Assessment Examination (TAE) of 10 marks is added in Continuous Assessment component.

## Item 3: Academic Planning, preparation, execution, and knowledge management.

All the members were given an idea about the Academic Planning.

**Resolution:** It was resolved that

- Academic Calendar was approved by the BOS Members for the A.Y. 2024-25 and student's college timings was decided from 9.00 am till 4.15 pm from Monday to Friday and every first, third and fifth Saturday of the Month.
- Students will be divided into two groups A and B. In Semester I, Group A will have Physics and Liberal Learning-Yoga and meditation. Group B will have Chemistry and Liberal Learning-Sports/Dance/Theatre/Photography. These subjects will be reversed/exchanged between Group A and B in Semester II. All remaining subjects will remain common for all students
- For Liberal Learning- Sports/Dance/Theatre/Photography, students will be divided into four groups of 45-60 students each depending on student's preference. Each student will have to choose one subject from these, if the maximum limit for one Liberal Learning course is over then student will have to opt for any one course from remaining three courses.
- Liberal Learning courses will be taken by the expert trainers of the respective courses.

## Academic Calendar

### A.Y. 2024-25 (Odd Semester)

Sr. No.	Activities	Date
1	Preparatory Classes	5 <sup>th</sup> August 2024 – 29 <sup>th</sup> August 2024
2	FE Student Induction Programme (SIP)	30 <sup>th</sup> , 31 <sup>st</sup> August 2024
3	Commencement of FE regular classes	2 <sup>nd</sup> September 2024
4	Teachers Day	5 <sup>th</sup> September 2024
5	Ganesh Chaturthi	7 <sup>th</sup> September 2024



6	Induction and Orientation Program	13 <sup>th</sup> September 2024
7	Eid-a Milad	16 <sup>th</sup> September 2024
8	Anant Chaturthi	17 <sup>th</sup> September 2024
9	CDC Meeting	18 <sup>th</sup> September 2024
10	Gandhi Jayanti	2 <sup>nd</sup> October 2024
11	Mid Semester Students' feedback	9 <sup>th</sup> October 2024
12	Display of student's attendance (<75%) informed to parents via letters/Defaulter List 1 (Attendance upto 10 <sup>th</sup> October )	11 <sup>th</sup> October 2024
13	Dasara	12 <sup>th</sup> October 2024
14	Internal Assessment Examination-I	19 <sup>th</sup> October, 21 <sup>st</sup> October 2024
15	Communication of IAE-I Result	29 <sup>th</sup> October 2024
16	Diwali Holiday	1 <sup>st</sup> November to 3 <sup>rd</sup> November 2024
17	Display of student's attendance (<75%) informed to parents via letters/Defaulter List 2 (Attendance upto 7 <sup>th</sup> November)	8 <sup>th</sup> November 2024
18	BOS meeting	11 <sup>th</sup> November 2024
19	Term End Feedback	21 <sup>st</sup> November 2024
20	Display of student's attendance (<75%) informed to parents via letters/Defaulter List 3 (Attendance upto 22 <sup>nd</sup> November)	23 <sup>rd</sup> November 2024
21	Last teaching day	22 <sup>nd</sup> November 2024
22	Internal Assessment Examination-II	25 <sup>th</sup> ,26 <sup>th</sup> November 2024
23	Communication of IAE-II Result	28 <sup>th</sup> November 2024
24	Conduct of Oral/Practical Examinations	29 <sup>th</sup> , 30 <sup>th</sup> November
25	Make up Test	2 <sup>nd</sup> , 3 <sup>rd</sup> December 2024
26	End Sem Examination	6 <sup>th</sup> December to 13 <sup>th</sup> December 2024
27	Provisional result	19 <sup>th</sup> December 2024
28	Open House	20 <sup>th</sup> December 2024
29	Sem I final result	23 <sup>rd</sup> December 2024
34	Commencement of second semester	6 <sup>th</sup> January 2024
35	SIP Activities, UHV, Mentoring	Throughout the semester

Total working available days (2<sup>nd</sup> September 2024 to 26<sup>th</sup> November 2024 for Odd Sem of A.Y. 2024-25 are 62 (58 Teaching+ 4 IAT) days.

## **Academic Calendar for AY 2024-25 (Even Semester)**

W.e.f. 6<sup>th</sup> January 2025

Sr. No	Activities	Date
1	Commencement of term (Sem-II) Class commencement	6 <sup>th</sup> January 2025
2	Prasang	8 <sup>th</sup> & 9 <sup>th</sup> January 2025
3	Campus Annual Day	10 <sup>th</sup> January 2025
4	SJCEM Sports	13 <sup>th</sup> and 14 <sup>th</sup> January 2025
5	Portfolio Review Faculty	18 <sup>th</sup> January 2025



6	NBA Review	6 <sup>th</sup> February 2025
7	Departmental Internal Audit 1	7 <sup>th</sup> February 2025
8	Question Bank (QB) Submission For IAE 1	10 <sup>th</sup> February 2025
9	Anveshanam	10 <sup>th</sup> - 15 <sup>th</sup> February 2025
10	Display Of IAE 1 Time Table	11 <sup>th</sup> February 2025
11	Departmental Internal Audit 2	13 <sup>th</sup> February 2025
12	Attendance & Defaulter Report 1	15 <sup>th</sup> February 2025
13	Shivaji Maharaj Jayanti	19 <sup>th</sup> February 2025
14	Question Paper Readiness For IAE 1	20 <sup>th</sup> February 2025
15	Mock AAA Audit	21 <sup>st</sup> February 2025
16	IAE 1	24 <sup>th</sup> , 25 <sup>th</sup> & 27 <sup>th</sup> February 2025
17	Mahashivratri	26 <sup>th</sup> February 2025
18	Mid Term Student Feedback, Other Feedbacks	27 <sup>th</sup> February 2025
19	Megaleio	28 <sup>th</sup> February and 1 <sup>st</sup> March 2025
20	Provisional Result of IAE 1	3 <sup>rd</sup> March 2025
21	Open House IAE 1	5 <sup>th</sup> March 2025
22	Holi	14 <sup>th</sup> March 2025
23	Attendance & Defaulter Report 2	15 <sup>th</sup> March 2025
24	Question Bank (QB) Submission For IAE 2	17 <sup>th</sup> March 2025
25	AAA Audit	28 <sup>th</sup> March 2025
26	Ramzan Eid	31 <sup>st</sup> March 2025
27	Question Bank (QB) Submission For ESE	8 <sup>th</sup> April 2025
28	Mahavir Jayanti	10 <sup>th</sup> April 2025
29	Ambedkar Jayanti	14 <sup>th</sup> April 2025
30	Question Paper Readiness For IAE 2	16 <sup>th</sup> April 2025
31	Question Bank vetting, End Term Feedback, CEF Feedback	17 <sup>th</sup> April 2025
32	Good Friday	18 <sup>th</sup> April 2025
33	Attendance & Defaulter Report 3	17 <sup>th</sup> April 2025
34	IAE 2	19 <sup>th</sup> 21 <sup>st</sup> , 22 <sup>nd</sup> April 2025
35	Oral / Practical	24 <sup>th</sup> , 25 <sup>th</sup> April 2025
36	Provisional Result of IAE 2	25 <sup>th</sup> April 2025

37	Open House IAE 2	28 <sup>th</sup> April 2025
38	Makeup Test	29 <sup>th</sup> & 30 <sup>th</sup> April 2025
39	Maharashtra Day	1 <sup>st</sup> May 2025
40	End Semester Examination	5 <sup>th</sup> May To 14 <sup>th</sup> May 2025
41	BOS Meeting odd sem 2025-26	2 <sup>nd</sup> May 2025
42	AC Meeting	9 <sup>th</sup> May 2025
43	Budhha Pornima	12 <sup>th</sup> May 2025
44	Provisional Result ESE	23 <sup>rd</sup> May 2025
45	Open House ESE	26 <sup>th</sup> May 2025
46	Final Result ESE	29 <sup>th</sup> May 2025
47	Re - Exam	11 <sup>th</sup> June To 24 <sup>th</sup> June 2025

**Total working available days (6<sup>th</sup> January 2025 to 30<sup>th</sup> April 2025) for Even Sem of A.Y. 2024-25**

**are 79 (66 Teaching + 6 IAT + 2 Sports+ 3 Oral/Practical + 2 Make-up test) days**

**Item 4:** To discuss and recommend the evaluation and assessment methods for the Odd semester of A.Y. 2024-25

**Resolution:** Evaluation and assessment scheme is shown in the syllabus of respective subjects. Evaluation and Assessment methods was discussed 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 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. Flipped 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.

- E.** Computer-Based Tests (CBTs) will be implemented for C++, Java, and EG-AutoCAD to modernize the evaluation process.

**Item 5: Examiner Panel Approval.**

Following Examiner Panel was approved by the BOS members.

Examiner Panel Attached on next page



**Item 6: Any other suggestions or feedback from members.**

Following points were proposed for consideration once the Autonomy Processes are matured.

- I. Branch-specific syllabi should be developed, distinguishing between Circuit and Non-Circuit branches.
- II. Suggested 40 Marks IAE to be divided into IAE 1, IAE 2, IE.
- III. Include 25 marks practical in chemistry and physics, making the total marks 150 instead of 125.

Mrs. Dipti Lopes

Chairperson – BOS Applied Sciences and Humanities (FE).