



Date: 12/11/2025

## Department of Electronics and Telecommunication

2<sup>nd</sup> Board of Studies (BoS) Meeting of Electronics and Telecommunication Department  
conducted on 12<sup>th</sup> November 2024 (Tuesday) at 10.30 am

### Minutes of the Meeting

#### Agenda

#### For Approval

1. To Approve Minutes of Meeting (MOM) of the last Board of Studies (BOS) meeting held on 11th June 2024
2. Approval of scheme SJCEM R-24 w.e.f. 2024-25 for Fourth Semester (22 credits), Sixth Semester (22 credits) and Eight Semester (19 credits) B.Tech in Electronics and Telecommunication Program.
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 a panel of Examiners for theory and lab courses.
5. Any other suggestions or feedback from members.

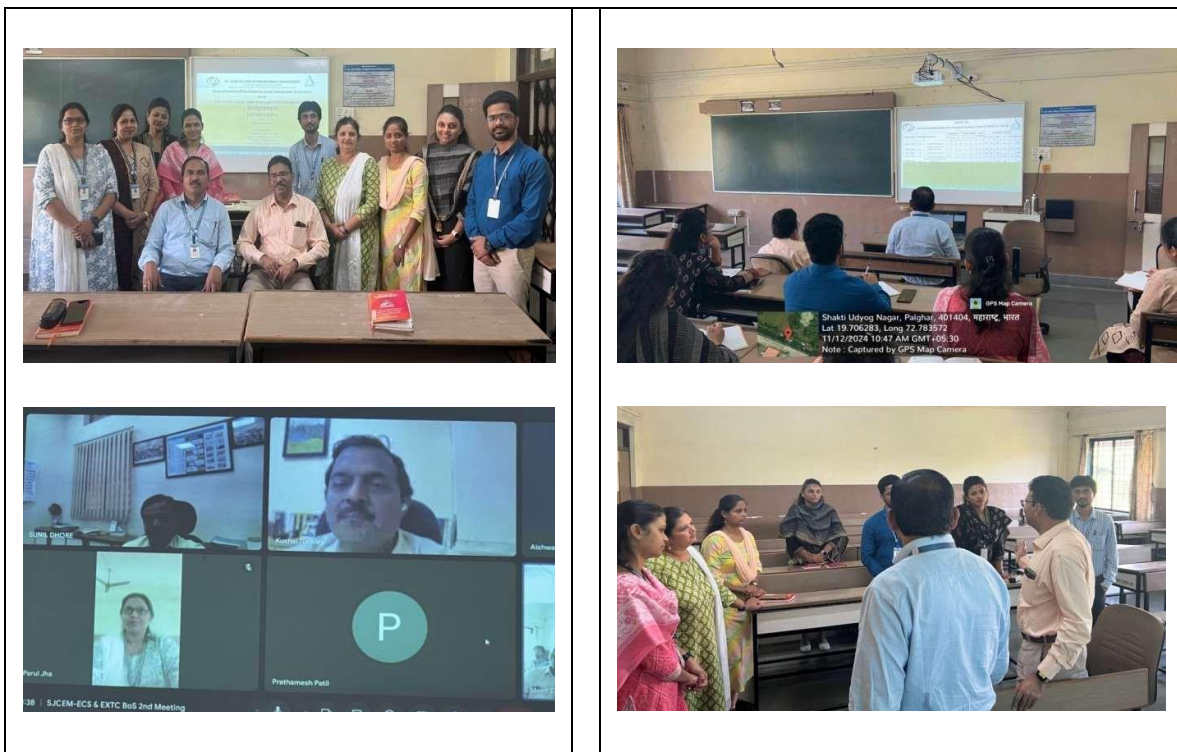
#### Following Members were present for BOS Meeting

Sr. No.	Name and Affiliation of BOS Members	Designation in BOS Committee	Mode of Presence in BOS Meeting
1.	Dr. Pandharinath Ghonge, Associate Professor & HOD, ECS and EXTC Dept St. John College of Engineering and Management, Palghar	BOS Chairman	Offline
2.	<b>Dr. Subhash Shinde</b> Principal, Lokmanya Tilak College of Engineering	VC Nominee, University of Mumbai	Online
3.	Dr. Sunil Dhore, Professor & Head (Computer Engineering), Army Institute of Technology, Dighi, Pune	Subject Expert 01 Outside the parent University	Online
4.	Dr. Sanjay Nalbalwar Professor & Head (EXTC),	Subject Expert 02 Outside the parent	Online



	DBATU,Lonere	University	
5.	<b>Dr. Sayad Munir</b> Assistant Vice President, Reliance JIO, Navi Mumbai	Expert from Industry/corporate sector/allied areas	Online
6.	Mr. Prathamesh Patil Sr. Engineer AMD, Mumbai	Alumni Member	Online
7.	Dr. Dayakshini Sathis, Professor (EXTC). St. Joseph College of Engineering, Mangalore.	Experts from outside the Autonomous College	Online
8.	Mrs. Vishakha Rane Assistant Professor, ECS/EXTC Dept., SJCEM	Member	Offline
9.	Mrs. Shilpa Katre Assistant Professor, ECS/EXTC Dept., SJCEM	Member	Online
10.	Ms. Aishwarya Churi Assistant Professor, ECS/EXTC Dept., SJCEM	Member	Offline
11.	Mr. Sandip Patil Assistant Professor, ECS/EXTC Dept., SJCEM	Member	Offline
12.	Mrs. Parul Jha Assistant Professor, ECS/EXTC Dept., SJCEM	Member	Offline
13.	Mrs. Hiral Patel Assistant Professor, ECS/EXTC Dept., SJCEM	Member	Offline
14.	Mrs. Joslyn Gracias Assistant Professor, ECS/EXTC Dept., SJCEM	Member	Offline
15.	Mr. Sachin Sase Assistant Professor, ECS/EXTC Dept., SJCEM	Member	Offline
16.	Mrs. Meenal Kate Assistant Professor, ECS/EXTC Dept., SJCEM	Member	Offline

## Meeting Photos:



The BOS Chairman, Dr. Pandharinath Ghonge welcomed all the BoS members and initiated the meeting.

**Agenda 1:** To consider and approve minutes of meeting of the 1<sup>st</sup> Board of Studies (BOS) held on 11th June 2024.

**Resolution 1:** The BOS approved the minutes of meeting of the 1<sup>st</sup> Board of Studies (BOS) meeting held on 11<sup>th</sup> June 2024. The 1<sup>st</sup> BoS suggestions and action taken are shown below

No	Suggestions	Action taken
1.	Inclusion of Operating System subject in second year.	Operating System subject included as Program core course (PCC) in semester IV.
2.	Computer Network to be conducted before Web Technology	Scheme rearranged with CN in sem IV
3.	Include Data Science and Visualization	Will be added in Elective track in semester

	tools.	VII
4.	Continuous Assessment should be done rigorously for skill based and add on courses.	Activity based exam included in the Evaluation scheme
5.	Research internship should be offered at institute for student of 8 <sup>th</sup> Semester	Facility being developed (Robotics/IoT, Drone Tech)

**Agenda 2:** Approval of scheme SJCEM R-24 w.e.f. 2024-25 for Fourth Semester (22 credits), Sixth Semester (22 credits) and Eight Semester (19 credits) B.Tech in Electronics and Telecommunication Program.

**Resolution 2:** The BOS approved the scheme SJCEM : R-24 for A.Y. 2024-25 for Fourth Semester and modified University of Mumbai's (UoM) REV-2019 'C' Scheme for Sixth Semester of B.Tech in Electronics and Computer Science department.

### Program Scheme for Second Year Electronics and Telecommunication Semester IV

Course Code	Vertical	Course Name	Contact Hrs			Credit Allotted			Total Credits
			Th	Tu t	Pr	Th	Tut	Pr	
24ETPCC401	PCC	Statistical Analysis	3	-	-	3	-	-	3
24ETPCC402	PCC	Microprocessor and Microcontroller	3	-	2	3	-	1	4
24ETPCC403	PCC	Operating Systems	3	-	-	3	-	-	3
24ETPCC404	PCC	Computer Networks	3	-	2	3	-	1	4
24ETCC405	PCC	Sensors Technology and Application	1	-	2	1	-	1	2
24ETAEC401	AEC	Employability Enhancement Program – 3(Communication)	-	-	2	-	-	1	1
24ETVSEC401	VSEC	Employability Enhancement Program - 3 (Technical)	1	-	2	1	-	1	2
24ETVSEC402	VSEC	Industry Certification	-	-	-	-	-	1	1
24ETINT401	OJT	Internship 1	-	-	-	-	-	2	2
		<b>Total</b>	<b>14</b>	<b>3</b>	<b>10</b>	<b>14</b>	<b>3</b>	<b>5</b>	<b>22</b>

Course Code	Vertical	Course Name	Evaluation Scheme					
			IA E 1	IA E 2	ES E	C A	OR/ PR	Total
24ETPCC401	PCC	Statistical Analysis	20	20	60	25	-	125
24ETPCC402	PCC	Microprocessor and Microcontroller	20	20	60	25	25	150
24ETPCC403	PCC	Operating Systems	20	20	60	-	-	100
24ETPCC404	PCC	Computer Networks	20	20	60	25	25	150
24ETPCC405	PCC	Sensors Technology and Application	10	10	30	25	-	75
24ETAEC401	AEC	Employability Enhancement Program – 3 (Communication)	-	-	-	25	-	25
24ETVSEC401	VSEC	Employability Enhancement Program - 3 (Technical)	10	10	30	25	-	75
24ETVSEC402	VSEC	Industry Certification	-	-	-	-	25	25
24ETINT401	INT	Internship 1	-	-	-	-	50	50
		<b>Total</b>	<b>100</b>	<b>100</b>	<b>300</b>	<b>175</b>	<b>100</b>	<b>775</b>

For the EXTC third year and fourth year batch, following Mumbai University Program Structure it is resolved that, as students have gathered 50% of credits already from UOM, in REV- 2019 'C' Scheme, the academic subjects (theory & lab.) should not be modified and total credits offered in third year and final year should not be changed.

BOS members further recommended that as NEP 2020 implementation started from AY 2024-25 and it is more relevant to industry expectations with inclusion of internship, Ability Enhancement courses and vocational subjects, the existing scheme can be modified as follows

- In 6<sup>th</sup> semester: Skill Lab: Linux and Networking and Server Configuration of 2 credits can be replaced with employability enhancement program (technical)-II, and mini project -2B of 2 credits can be replaced with industry certification (1 credit) and Internship-II (1 credit).
- In 8<sup>th</sup> semester: Major project-II of 6 credits can be replaced with industry certification (1credit) and major project (5 credits).

Following is the modified scheme for third and final year Electronics and Telecommunication

## Program Scheme for Third Year Electronics and Telecommunication Semester VI

Course Code	Vertical	Course Name	Contact Hours			Credits Allotted			Total Credit
			T h	T u	P r	T h	T u	P r	Tota l
24ETPCC601	PCC	Electromagnetic and Antenna	3	-	2	3	-	1	4
24ETPCC602	PCC	Computer Communication Networks	3	-	2	3	-	1	4
24ETPCC603	PCC	Image Processing and Machine Vision	3	-	2	3	-	1	4
24ETPCC604	PCC	Artificial Neural Network and Fuzzy Logic	3	-	-	3	-	-	3
24ETPEC601 X	PEC	Department Level Optional Course-2	3	-	-	3	-	-	3
24ETVSE601	VSEC	Employability Enhancement Program (Technical)	-	-	4	-	-	2	2
24ETVSE602	VSEC	Industry Certification	-	-	-	-	-	1	1
24ETOJT601	OJT	Internship – II	-	-	-	-	-	1	1
<b>Total</b>			<b>15</b>	<b>1</b>	<b>10</b>	<b>15</b>	<b>0</b>	<b>7</b>	<b>22</b>

Course Code	Vertical	Course Name	Evaluation Scheme					Total
			Theory			Practical		
			IAE 1	IA E2	ES E	CA	OR/ PR	
24ETPCC601	PCC	Electromagnetic and Antenna	20	20	60	25	25	150
24ETPCC602	PCC	Computer Communication Networks	20	20	60	25	25	150
24ETPCC603	PCC	Digital Image Processing and Machine Vision	20	20	60	25	25	150
24ETPCC604	PCC	Artificial Neural Network and Fuzzy Logic	20	20	60	-	-	100
24ETPEC601 X	PEC	Department Level Optional Course-2	20	20	60	-	-	100
24ETVSE601	VSEC	Employability Enhancement Program (Technical)	-	-	-	50	-	50
24ETVSE602	VSEC	Industry Certification	-	-	-	-	50	50
24ETOJT601	OJT	Internship – II	-	-	-	-	25	25
<b>Total</b>			<b>100</b>	<b>100</b>	<b>300</b>	<b>120</b>	<b>150</b>	<b>775</b>

Department Level Optional Course-2			
24ETPEC6011	Mixed Signal VLSI	24ETPEC6014	Database Management System
24ETPEC6012	Computer Organization and Architecture	24ETPEC6015	IoT and Industry 4.0
24ETPEC6013	Digital Forensic	24ETPEC6016	Radar Engineering

## Program Scheme for Fourth Year Electronics and Telecommunication Semester VIII

Course Code	Vertical	Course Name	Contact Hours			Credits Allotted			Total Credit
			Th	Tu	Pr	Th	Tu	Pr	Total
24ETPCC801	PCC	Optical Communication and Networks	3	-	2	3	-	1	4
24ETPEC801X	PEC	Department Level Optional Course-5	3	-	-	3	-	-	3
24ETPEC802X	PEC	Department Level Optional Course-6	3	-	-	3	-	-	3
24ILO802X	OE	Institute Level Optional Course-2 #	3	-	-	3	-	-	3
24ETVSE801	VSEC	Industry Certification	-	-	-	-	-	1	1
24ETPRJ801	PRJ	Major Project 2 / Internship - III	-	-	10	-	-	5	5
<b>Total</b>			<b>12</b>	<b>0</b>	<b>10</b>	<b>12</b>	<b>0</b>	<b>7</b>	<b>19</b>

Course Code	Vertical	Course Name	Evaluation Scheme					
			Theory			Practical		Total
			IA E1	IA E2	ES E	CA	OR/PR	
24ETPCC801	PCC	Optical Communication and Networks	20	20	60	25	25	150
24ETPEC801X	PEC	Department Level Optional Course-5	20	20	60	-	-	100
24ETPEC802X	PEC	Department Level Optional Course-6	20	20	60	-	-	100
24ILO802X	OE	Institute Level Optional Course-2	20	20	60	-	-	100
24ETVSE801	VSEC	Industry Certification	-	-	-	-	50	50
24ETPRJ801	PRJ	Major Project 2 / Internship – III	-	-	-	75	25	100
<b>Total</b>			<b>80</b>	<b>80</b>	<b>240</b>	<b>100</b>	<b>100</b>	<b>600</b>

### Department Optional Courses

Course Code	Department Optional Course-5	Course Code	Department Optional Course -6
24ETPEC8011	System On Chip Design	24ETPEC8021	Autonomous Vehicle
24ETPEC8012	Natural Language Processing	24ETPEC8022	Satellite and Nano Satellite Communication

24ETPEC8013	Wireless Networks	24ETPEC8023	Network Management in Telecommunication
24ETPEC8014	Web Design	24ETPEC8024	Microstrip Antenna
24ETPEC8015	RF Design	24ETPEC8025	Augmented Reality and Virtual Reality

### Institute Elective Courses#

Course Code	Institute Elective Course-II#
24ILO8021	Project Management
24ILO8022	Finance Management
24ILO8023	Entrepreneurship Development and Management
24ILO8024	Human Resource Management
24ILO8025	Professional Ethics and CSR
24ILO8026	Research Methodology
24ILO8027	IPR and Patenting
24ILO8028	Digital Business Management
24ILO8029	Environmental Management

#Common with all branches

**Agenda 3:** To discuss and recommend the academic productivity in teaching- learning process, project quality and semester conduct to meet the requirement of outcome based education (OBE).

**Resolution 3:** It was resolved to continue usage of diverse pedagogies in teaching learning process.



Project Based Learning



Field Based Learning



Open Book Tests



Gamification



**Agenda 4:** To discuss and review the Evaluation and Assessment methods and finalization for a 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 discussed and confirmed. Panel of Examiners for theory and lab courses was discussed and confirmed unanimously by all BOS members.

### **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.

It was discussed and resolved that Examination will be conducted by SJCEM for all UG and Results will be declared by institute following which submission will be done to UoM as per guidelines for awarding degree to students.

## Agenda 5: Examiner Panel Approval.

Examiner Panel was approved by the BOS members.

### Semester- IV

Course Code	Vertical	Course Name	Examiner 1	Examiner 2	Examiner 3
24ETPC C401	PCC	Statistical Analysis	Mrs. Parul Jha SJCEM 7219169833, parulj@sjcem.edu.in	Ms. Reshma Chavan, SJCEM 98670 30907, reshmac@sjcem.edu.in	Mayur Gohil, VCET, Vasai 8355801862, mayurgohil@gmail.com
24ETPC C402	PCC	Microprocessor and Microcontroller	Mrs. Joslyn Gracias, SJCEM 9158875875, joslyng@sjcem.edu.in	Ms. Aishwarya Churi, SJCEM 9890413170, aishwaryach@sjcem.edu.in	Dr. Kevin Naronha, SFIT, Borivali 9870335301, kevinnaronha@sfit.ac.in
24ETPC C403	PCC	Operating Systems	Mr. Sachin Sase, SJCEM 7507376241, sachins@sjcem.edu.in	Mr. Sandip Patil, SJCEM 9860823842, sandipp@sjcem.edu.in	Dr. Nilesh Bhelar RGIT, Mumbai. 8149330733, nilesh.bhelkar@mctrigit.ac.in
24ETPC C404	PCC	Computer Networks	Mr. Sandip Patil, SJCEM 9860823842, sandipp@sjcem.edu.in	Mrs. Hiral Patel, SJCEM 9173020762, hiralp@sjcem.edu.in	Dr. Vaqar Ansari, SFIT, Borivali 9987461239, vaqar@sfit.ac.in
24ETPC C405	PCC	Sensors Technology and Application	Dr. Pandharinath Ghonge, SJCEM, 9869025984, pandharinathg@sjcem.edu.in	Mrs. Hiral Patel, SJCEM 9173020762, hiralp@sjcem.edu.in	Dr. Kevin Naronha, SFIT, Borivali 9870335301, kevinnaronha@sfit.ac.in
24ETAE C401	AEC	Employability Enhancement Program – 3 (Communication)	Mr. Beatrice Lobo, SJCEM 98216 64410, beatricel@sjcem.edu.in	Dr. Eknath Patil, SJCEM 99211 18025, eknathp@sjcem.edu.in	Mr. Rishabh Melwanki, VCET Vasai, rishabhm2355@gmail.com
24ETVS EC401	VSEC	Employability Enhancement Program - 3 (Technical)	Mr. Beatrice Lobo, SJCEM 98216 64410, beatricel@sjcem.edu.in	Dr. Eknath Patil, SJCEM 99211 18025, eknathp@sjcem.edu.in	Mr. Rishabh Melwanki, VCET Vasai, rishabhm2355@gmail.com



## Semester- VI

Course Code	Vertical	Course Name	Examiner 1	Examiner 2	Examiner 3
24ETPCC 601	PCC	Electromagnetic and Antenna	Mr. Sachin Sase, SJCEM 7507376241, <a href="mailto:sachins@sjcem.edu.in">sachins@sjcem.edu.in</a>	Mrs. Joslyn Gracias, SJCEM 9158875875, joslyng@sjcem.edu.in	Mr. Nilesh Shimpi Atharva College of Engineering, Malad 7507789405 shimpi.nilesh001@gmail.com
24ETPCC 602	PCC	Computer Communication Networks	Mrs. Vishakharane, SJCEM, 9730371605, <a href="mailto:vishakhar@sjcem.edu.in">vishakhar@sjcem.edu.in</a>	Mrs. Meenal Kate, 9516976233 meenalk@sjcem.edu.in	Priti Rumao VCET, Vasai 7058438939 Priti.rumao@vcet.edu.in
24ETPCC 603	PCC	Digital Image Processing and Machine Vision	Mr. Sandip Patil, SJCEM 9860823842, sandipp@sjcem.edu.in	Mrs. Hiral Patel, SJCEM 9173020762, hiralp@sjcem.edu.in	Dr. Vaqar Ansari, SFIT, Borivali 9987461239, vaqar@sfit.ac.in
24ETPCC 604	PCC	Artificial Neural Network and Fuzzy Logic	Ms. Aishwarya Churi, SJCEM 9890413170, <a href="mailto:aishwaryach@sjcem.edu.in">aishwaryach@sjcem.edu.in</a>	Mr. Sandip Patil, SJCEM 9860823842, sandipp@sjcem.edu.in	Priti Rumao VCET, Vasai 7058438939 Priti.rumao@vcet.edu.in
24ETPEC 601X	PEC	Department Level Optional Course-2	Dr. Pandharinath Ghonge, SJCEM, 9869025984, pandharinathg@sjcem.edu.in	Mrs. Hiral Patel, SJCEM 9173020762, hiralp@sjcem.edu.in	Mr. Bharat Warude VIVACollege, Virar 9987001925 bharatwarude@viva-technology.org
24ETVSE 601	VSEC	Employability Enhancement Program (Technical)	Dr. Pandharinath Ghonge, SJCEM, 9869025984, <a href="mailto:pandharinathg@sjcem.edu.in">pandharinathg@sjcem.edu.in</a>	Mr. Sandip Patil, SJCEM 9860823842, sandipp@sjcem.edu.in	Mr. Rishabh Melwanki, VCET Vasai, rishabhm2355@gmail.com
24ETVSE 602	VSEC	Industry Certification	Mrs. Hiral Patel, SJCEM 9173020762, <a href="mailto:hiralp@sjcem.edu.in">hiralp@sjcem.edu.in</a>	Mrs. Joslyn Gracias, SJCEM 9158875875, joslyng@sjcem.edu.in	Dipti Kale Asst.Prof DJ Sanghvi college 9819811982 Dipti.kale.djsce@ac.in
24ETOJT 601	OJT	Internship – II	Mrs. Hiral Patel, SJCEM 9173020762, <a href="mailto:hiralp@sjcem.edu.in">hiralp@sjcem.edu.in</a>	Mrs. Joslyn Gracias, SJCEM 9158875875, joslyng@sjcem.edu.in	Dipti Kale Asst.Prof DJ Sanghvi college 9819811982 Dipti.kale.djsce@ac.in

## Semester VIII

Course Code	Vertical	Course Name	Examiner 1	Examiner 2	Examiner 3
24ETPC C801	PCC	Optical Communication and Networks	Mrs. Joslyn Gracias, SJCEM 9158875875, joslyng@sjcem.edu.in	Ms. Aishwarya Churi, SJCEM 9890413170, aishwaryach@sjcem.edu.in	Dr. Kevin Naronha, SFIT, Borivali 9870335301, kevinnaronha@sfit.ac.in
24ETPE C801X	PEC	Department Level Optional Course-5	Mr. Sachin Sase, SJCEM 7507376241, sachins@sjcem.edu.in	Mr. Sandip Patil, SJCEM 9860823842, sandipp@sjcem.edu.in	Dr. Nilesh Bhelar RGIT, Mumbai. 8149330733, nilesh.bhelkar@mctrigit.ac.in
24ETPE C802X	PEC	Department Level Optional Course-6	Mr. Sandip Patil, SJCEM 9860823842, sandipp@sjcem.edu.in	Mrs. Hiral Patel, SJCEM 9173020762, hiralp@sjcem.edu.in	Dr. Vaqar Ansari, SFIT, Borivali 9987461239, vaqar@sfit.ac.in
24ILO80 2X	OE	Institute Level Optional Course-2	Mr. Sachin Sase, SJCEM 7507376241, <a href="mailto:sachins@sjcem.edu.in">sachins@sjcem.edu.in</a>	Mrs. Meenal Kate, 9516976233 meenalk@sjcem.edu.in	Lynette Demello DJ Sanghvi college 8108118509
24ETPR J801	PRJ	Major Project 2 / Internship - III	Mrs. Shilpa Katre <a href="mailto:Shilpak@sjcem.edu.in">Shilpak@sjcem.edu.in</a>	Mrs. Joslyn Gracias, SJCEM 9158875875, joslyng@sjcem.edu.in	Mr. Nilesh Shimpi Atharva College of Engineering, Malad 7507789405 shimpi.nilesh001@gmail.com

**Agenda 5:** Any other suggestions or feedback from members.

BoS members reassured that the inclusion of skilling and internship will certainly provide better avenues for EXTC branch placements.

Meeting was then concluded with vote of thanks by BoS Chairman, Dr. Pandharinath Ghonge.

**BOS Chairman**

**Electronics and Telecommunication**

**Department**