

Date: 11/06/2024

## Department of Information Technology

### 1<sup>st</sup> Board of Studies (BoS) Hybrid Meeting of Information Technology Department conducted on 11<sup>th</sup> June 2024 (Tuesday) at 10.30 am

#### 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 B.E. Information Technology 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 panel of Examiners for theory and lab courses.
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

| S. No. | Member Name and Designation   | Designation in the Committee                                    | Mode    |
|--------|---|---|---------|
| 1.     | Dr. Arun Saxena,<br>Assistant Professor & Head,<br>(Information Technology)<br>St. John College of Engineering and<br>Management, Palghar | BOS Chairman  | Offline |
| 2.     | Dr. Sunil Wankhade,<br>Professor & Head,<br>(Information Technology),<br>Rajiv Gandhi Institute of Technology,<br>Versova, Mumbai         | Nominated by the<br>Vice Chancellor,<br>University of<br>Mumbai | Online  |

|     |   |  |         |
|-----|---|--|---------|
| 3.  | Dr. Preeti Gupta,<br>Associate Professor and Program Chair,<br>School of Technology Management &<br>Engineering (STME),<br>SVKM's (NMIMS),<br>Navi Mumbai | Subject Expert 01,<br>Outside the parent<br>University<br>nominated by the<br>Academic Council |         |
| 4.  | Dr. Harivinod N.,<br>Associate Professor,<br>(Computer Engineering),<br>St. Joseph Engineering College,<br>Mangaluru, Karnataka                           | Subject Expert 02,<br>Outside the parent<br>University<br>nominated by the<br>Academic Council |         |
| 5.  | Mr. Anurag Sinha,<br>Consultant, Symphony FinTech, Andheri<br>Mumbai  | Industry Expert,<br>Nominated by the<br>Principal  |         |
| 6.  | Mr. Abhishek Gharat,<br>CEO, Kraft Pixel,<br>Vasai, Mumbai  | Alumni<br>Representative,<br>Nominated by the<br>Principal                                     |         |
| 7.  | Dr. Arun Kularni,<br>Professor, Thadomal Shahani Engineering<br>College, Bandra, Mumbai   | Expert from outside<br>the Autonomous<br>College,<br>Nominated by the<br>Principal             | Absent  |
| 8.  | Ms. Shraddha More,<br>Assistant Professor,<br>(Information Technology)<br>St. John College of Engineering and<br>Management, Palghar                      |  |         |
| 9.  | Ms. Tanvi Patil,<br>Assistant Professor,<br>(Information Technology)<br>St. John College of Engineering and<br>Management, Palghar                        |  |         |
| 10. | Mr. Abhaysinh Bhosle,<br>Assistant Professor,<br>(Information Technology)<br>St. John College of Engineering and<br>Management, Palghar                   | Member   | Offline |
| 11. | Ms. Maya Patil,<br>Assistant Professor,<br>(Information Technology)<br>St. John College of Engineering and<br>Management, Palghar                         |  |         |
| 12. | Ms. Priyanka Kamble,<br>Assistant Professor,<br>(Information Technology)  |  |         |

|     |   |  |  |
|-----|---|--|--|
|     | St. John College of Engineering and Management, Palghar   |  |  |
| 13. | Ms. Pratiksha Patil,<br>Assistant Professor,<br>(Information Technology)<br>St. John College of Engineering and Management, Palghar |  |  |



## Minutes of Meeting

Meeting was conducted on 12<sup>th</sup> June 2024. It started with welcome, introduction of BOS members and briefing of agenda of the 1<sup>st</sup> meeting to all members by Dr. Arun Saxena.

**Agenda 01:** To review and discuss on Curriculum design, development, and Implementation w.r.t NEP 2020 and Autonomy requirements.

**Resolution 01:** Curriculum design, development, and Implementation w.r.t NEP 2020 and Autonomy requirements reviewed and resolved that Information Technology Department follows guidelines from UGC and AICTE for credit distribution (Total 169 Credits from first year to final year).

**Agenda 02:** Approval of scheme SJCEM R-24 w.e.f. A. Y. 2024-25 for B.E. Information Technology Program.

**Resolution 02:**

SJCEM got autonomy from AY 2024-25, all students enrolled in first year in AY 2023-24 learnt same subjects as common curriculum offered by University of Mumbai under scheme REV- 2019 'C' Scheme. They all have gathered 38 credits by studying same subjects.

It is resolved in BOS meeting that all second year (Autonomous) students can be offered a new curriculum to get advantage of NEP 2020 and industry relevance. With respect to that, second year (autonomous) new scheme and syllabus is designed which will be effective from AY 2024-25.

Every year as the batch progresses to new academic year scheme and syllabus will be updated.

The scheme is shown below for semester 3rd & 4th.

**Second Year  
Semester – III  
SCHEME: SJCEMR–24**

| Course Code  | Vertical | Course Name                              | Contact Hrs. |          |           | Credit Allotted |          |          | Total Credits |
|--------------|----------|--|--------------|----------|-----------|-----------------|----------|----------|---------------|
|              |          |  | Th           | Tut      | Pr        | Th              | Tut      | Pr       |               |
| 24ITPCC301   | PCC      | Discrete Mathematics                     | 3            | 1        | -         | 3               | 1        | -        | 4             |
| 24ITPCC302   | PCC      | Data Structures                          | 3            | -        | 2         | 3               | -        | 1        | 4             |
| 24ITPCC303   | PCC      | Microprocessor and Computer Architecture | 3            | -        | 2         | 3               | -        | 1        | 4             |
| 24ITPCC304   | PCC      | Database Management System               | 2            | -        | 2         | 2               | -        | 1        | 3             |
| 24ITPCC305   | PCC      | Programming Language I (C++/Java)        | 1            | -        | 4         | 1               | -        | 2        | 3             |
| 24ITVEC301   | VEC      | Universal Human Values                   | 2            | 1        | -         | 2               | 1        | -        | 3             |
| 24ITAEC301   | AEC      | Basic Communication Skills – II          | -            | 1        | -         | -               | 1        | -        | 1             |
| <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 |            |            |            |           | Total      |
|--------------|----------|---|-------------------|------------|------------|------------|-----------|------------|
|              |          |   | IAE 1             | IAE 2      | ESE        | CA         | OR/P<br>R |            |
| 24ITPCC301   | PCC      | Discrete Mathematics                        | 20                | 20         | 60         | 25         | -         | 125        |
| 24ITPCC302   | PCC      | Data Structures                             | 20                | 20         | 60         | 25         | 25        | 150        |
| 24ITPCC303   | PCC      | Microprocessor and<br>Computer Architecture | 20                | 20         | 60         | 25         | -         | 125        |
| 24ITPCC304   | PCC      | Database Management System                  | 20                | 20         | 60         | 25         | 25        | 150        |
| 24ITPCC305   | PCC      | Programming Language I<br>(C++/Java)        | 10                | 10         | 30         | 50         | 25        | 125        |
| 24ITVEC301   | VEC      | Universal Human Values                      | 10                | 10         | 30         | 25         | -         | 75         |
| 24ITAEC301   | AEC      | Basic Communication Skills – II             | -                 | -          | -          | 25         | -         | 25         |
| <b>Total</b> |          |   | <b>100</b>        | <b>100</b> | <b>300</b> | <b>200</b> | <b>75</b> | <b>775</b> |

**Second Year  
Semester – IV  
SCHEME: SJCEMR–24**

| Course Code  | Vertical | Course Name   | Contact Hrs. |          |           | Credit Allotted |          |           | Total<br>Credits |
|--------------|----------|---|--------------|----------|-----------|-----------------|----------|-----------|------------------|
|              |          |   | Th           | Tut      | Pr        | Th              | Tut      | Pr        |                  |
| 24ITPCC401   | PCC      | Statistics and Probability                            | 2            | 1        | -         | 2               | 1        | -         | 3                |
| 24ITPCC402   | PCC      | Analysis of Algorithm                                 | 3            | -        | 2         | 3               | -        | 1         | 4                |
| 24ITPCC403   | PCC      | Computer Networks                                     | 3            | -        | 2         | 3               | -        | 1         | 4                |
| 24ITPCC404   | PCC      | Operating System                                      | 2            | -        | 2         | 2               | -        | 1         | 3                |
| 24ITPCC405   | PCC      | Programming Language II<br>(Python)                   | 1            | -        | 2         | 1               | -        | 1         | 2                |
| 24ITAEC401   | AEC      | Corporate Communication &<br>Employability Skills - I | -            | -        | 2         | -               | -        | 1         | 1                |
| 24ITVSE401   | VSEC     | Employability Enhancement<br>Program (Technical) - 1  | 1            | -        | 2         | 1               | -        | 1         | 2                |
| 24ITVSE402   | VSEC     | Industry Certification                                | -            | -        | -         | -               | -        | 1         | 1                |
| 24ITOJT401   | OJT      | Internship I  | -            | -        | -         | -               | -        | 2         | 2                |
| <b>Total</b> |          |   | <b>12</b>    | <b>1</b> | <b>12</b> | <b>12</b>       | <b>1</b> | <b>09</b> | <b>22</b>        |

| Course Code  | Vertical | Course Name  | Evaluation Scheme |            |            |            |            | Total      |
|--------------|----------|--|-------------------|------------|------------|------------|------------|------------|
|              |          |  | IAE 1             | IAE 2      | ESE        | CA         | OR/P<br>R  |            |
| 24ITPCC401   | PCC      | Statistics and Probability                         | 20                | 20         | 60         | 25         | -          | 125        |
| 24ITPCC402   | PCC      | Analysis of Algorithm                              | 20                | 20         | 60         | 25         | 25         | 150        |
| 24ITPCC403   | PCC      | Computer Networks                                  | 20                | 20         | 60         | 25         | -          | 125        |
| 24ITPCC404   | PCC      | Operating System                                   | 20                | 20         | 60         | 25         | -          | 125        |
| 24ITPCC405   | PCC      | Programming Language II (Python)                   | 10                | 10         | 30         | 25         | -          | 75         |
| 24ITAEC401   | AEC      | Corporate Communication & Employability Skills - I | -                 | -          | -          | 25         | -          | 25         |
| 24ITVSE401   | VSEC     | Employability Enhancement Program (Technical) - 1  | 10                | 10         | 30         | 25         | -          | 75         |
| 24ITVSE402   | VSEC     | Industry Certification                             | -                 | -          | -          | -          | 25         | 25         |
| 24ITOJT401   | OJT      | Internship I                                       | -                 | -          | -          | -          | 50         | 50         |
| <b>Total</b> |          |  | <b>100</b>        | <b>100</b> | <b>300</b> | <b>175</b> | <b>100</b> | <b>775</b> |

Regarding third year and final year, 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 semester V, professional communication and ethics-II of 2 credits can be replaced with employability enhancement program (technical) and Mini project- 2A of 2 credits can be replaced with skill based lab with mini project (1 credit) and corporate communication and employability skill-I (1 credit).
- In semester VI, Skill base Lab Course: MAD & PWA Lab and Sensor Lab of 1 credit each 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 semester VII, Major project- I of 3 credits can be replaced with Major project -I (2 credits) and corporate communication and employability skill-II (1 credit)

- In semester VIII Major project-II of 6 credits can be replace with industry certification (1 credit) and major project (5 credits).

Following is the modified scheme for third year and final year Information Technology.

**Third Year  
Semester – V  
SCHEME: SJCEM R-24**

| Course Code     | Vertical | Course Name                                       | Contact Hrs |          |           | Credit Allotted |          |          | Total Credits |
|-----------------|----------|---|-------------|----------|-----------|-----------------|----------|----------|---------------|
|                 |          |   | Th          | Tut      | Pr        | Th              | Tut      | Pr       |               |
| 24ITPCC501      | PCC      | Internet Programming                              | 3           | -        | 2         | 3               | -        | 1        | 4             |
| 24ITPCC502      | PCC      | Computer Network Security                         | 3           | -        | 2         | 3               | -        | 1        | 4             |
| 24ITPCC503      | PCC      | Entrepreneurship and E-Business                   | 3           | -        | -         | 3               | -        | -        | 3             |
| 24ITPCC504      | PCC      | Software Engineering                              | 3           | -        | -         | 3               | -        | 0.5      | 3.5           |
| 24ITPEC501<br>X | PEC      | Department Level Optional Course 1                | 3           | -        | -         | 3               | -        | -        | 3             |
| 24ITVSE501      | VSEC     | DevOPs Lab  | -           | -        | 4         | -               | -        | 2        | 2             |
| 24ITAEC501      | AEC      | Corporate Communication & Employability Skills- I | -           | -        | 2         | -               | -        | 1        | 1             |
| 24ITVSE502      | VSEC     | Employability Enhancement Program (Technical)     | -           | -        | 4         | -               | -        | 1.5      | 1.5           |
| 24ITVSE503      | VSEC     | Skill Based Lab with Mini Project                 | -           | -        | 2         | -               | -        | 1        | 1             |
| <b>Total</b>    |          |   | <b>15</b>   | <b>0</b> | <b>16</b> | <b>15</b>       | <b>0</b> | <b>8</b> | <b>23</b>     |

| Course Code | Vertical | Course Name                        | Evaluation Scheme |       |     |    |     |       |
|-------------|----------|------------------------------------|-------------------|-------|-----|----|-----|-------|
|             |          |                                    | IAE-1             | IAE-2 | ESE | TW | Ext | Total |
| 24ITPCC501  | PCC      | Internet Programming               | 20                | 20    | 60  | 25 | 25  | 150   |
| 24ITPCC502  | PCC      | Computer Network Security          | 20                | 20    | 60  | 25 | 25  | 150   |
| 24ITPCC503  | PCC      | Entrepreneurship and E-Business    | 20                | 20    | 60  | -  | -   | 100   |
| 24ITPCC504  | PCC      | Software Engineering               | 20                | 20    | 60  | 25 | -   | 125   |
| 24ITPEC501X | PEC      | Department Level Optional Course 1 | 20                | 20    | 60  | -  | -   | 100   |
| 24ITVSE501  | VSEC     | DevOPs Lab                         | -                 | -     | -   | 25 | 50  | 75    |

|              |      |  |     |     |     |     |     |            |
|--------------|------|--|-----|-----|-----|-----|-----|------------|
| 24ITAEC501   | AEC  | Corporate Communication & Employability Skills - I | -   | -   | -   | 25  | -   | 25         |
| 24ITVSE502   | VSEC | Employability Enhancement Program (Technical)      | -   | -   | -   | 25  | -   | 25         |
| 24ITVSE503   | VSEC | Skill Based Lab with Mini Project                  | -   | -   | -   | 25  | 25  | 50         |
| <b>Total</b> |      |  | 100 | 100 | 300 | 175 | 125 | <b>800</b> |

| DLOC          | Code        | Course                                |
|---------------|-------------|---------------------------------------|
| <b>DLOC 1</b> | 24ITPEC5011 | Microcontroller Embedded Programming  |
|               | 24ITPEC5012 | Advance Data Management Technologies  |
|               | 24ITPEC5013 | Computer Graphics & Multimedia System |
|               | 24ITPEC5014 | Advanced Data structure and Analysis  |

**Third Year  
Semester – VI  
SCHEME: SJCEM R-24**

| Course Code     | Vertical | Course Name                                   | Contact Hrs |     |    | Credit Allotted |     |    | Total Credits |
|-----------------|----------|---|-------------|-----|----|-----------------|-----|----|---------------|
|                 |          |   | Th          | Tut | Pr | Th              | Tut | Pr |               |
| 24ITPCC60<br>1  | PCC      | Data Mining & Business Intelligence           | 3           | -   | 2  | 3               | -   | 1  | 4             |
| 24ITPCC60<br>2  | PCC      | Web X.0                                       | 3           | -   | 2  | 3               | -   | 1  | 4             |
| 24ITPCC60<br>3  | PCC      | Wireless Technology                           | 2           | 1   | -  | 2               | 1   | -  | 3             |
| 24ITPCC60<br>4  | PCC      | AI and DS – 1                                 | 3           | -   | 2  | 3               | -   | 1  | 4             |
| 24ITPEC60<br>1X | PEC      | Department Level Optional Course 2            | 3           | -   | -  | 3               | -   | -  | 3             |
| 24ITVSE60<br>1  | VSE<br>C | Employability Enhancement Program (Technical) | -           | -   | 4  | -               | -   | 2  | 2             |
| 24ITVSE60<br>2  | AEC      | Industry Certification                        | -           | -   | -  | -               | -   | 1  | 1             |
| 24ITOJT60<br>1  | VSE<br>C | Internship - II                               | -           | -   | -  | -               | -   | 1  | 1             |
| <b>Total</b>    |          |   | 14          | 1   | 10 | 14              | 1   | 7  | <b>22</b>     |

| Course Code  | Vertical | Course Name                                  | Evaluation Scheme |            |            |            |            |            |
|--------------|----------|--|-------------------|------------|------------|------------|------------|------------|
|              |          |  | IAE-1             | IAE-2      | ESE        | TW         | Ext        | Total      |
| 24ITPCC601   | PCC      | Data Mining & Business Intelligence          | 20                | 20         | 60         | 25         | 25         | 150        |
| 24ITPCC602   | PCC      | Web X.0                                      | 20                | 20         | 60         | 25         | 25         | 150        |
| 24ITPCC603   | PCC      | Wireless Technology                          | 20                | 20         | 60         | 25         | -          | 125        |
| 24ITPCC604   | PCC      | AI and DS – 1                                | 20                | 20         | 60         | 25         | 25         | 150        |
| 24ITPEC601X  | PEC      | Department Level Optional Course 2           | 20                | 20         | 60         | -          | -          | 100        |
| 24ITVSE601   | VSE<br>C | Employability Enhancement Program (Technical | -                 | -          | -          | 50         | -          | 50         |
| 24ITVSE602   | AEC      | Industry Certification                       | -                 | -          | -          | -          | 25         | 25         |
| 24ITOJT601   | VSE<br>C | Internship - II                              | -                 | -          | -          | -          | 50         | 50         |
| <b>Total</b> |          |  | <b>100</b>        | <b>100</b> | <b>300</b> | <b>150</b> | <b>150</b> | <b>800</b> |

| DLOC          | Code        | Course                       |
|---------------|-------------|------------------------------|
| <b>DLOC 2</b> | 24ITPEC6011 | Software Architecture        |
|               | 24ITPEC6012 | Image Processing             |
|               | 24ITPEC6013 | Green IT                     |
|               | 24ITPEC6014 | Ethical Hacking and Forensic |

**Final Year  
Semester – VII  
SCHEME: SJCEM R-24**

| Course Code     | Vertical | Course Name                        | Contact Hrs |     |    | Credit Allotted |     |    | Total Credits |
|-----------------|----------|------------------------------------|-------------|-----|----|-----------------|-----|----|---------------|
|                 |          |                                    | Th          | Tut | Pr | Th              | Tut | Pr |               |
| 24ITPCC701      | PCC      | AI and DS –II                      | 3           | -   | 2  | 3               | -   | 1  | 4             |
| 24ITPCC702      | PCC      | Internet of Everything             | 3           | -   | 2  | 3               | -   | 1  | 4             |
| 24ITPEC701<br>X | PEC      | Department Level Optional Course 3 | 3           | -   | -  | 3               | -   | -  | 3             |
| 24ITPEC702<br>X | PEC      | Department Level Optional Course 4 | 3           | -   | -  | 3               | -   | -  | 3             |
| 24ILO701X       | OE       | Institute Level Optional Course 1  | 3           | -   | -  | 3               | -   | -  | 3             |

|              |      |   |    |   |    |    |   |   |    |
|--------------|------|---|----|---|----|----|---|---|----|
| 24ITVSEC701  | VSEC | Secure Application Development                    | -  | - | 2  | -  | - | 1 | 1  |
| 24ITVSEC702  | VSEC | Recent Open Source Project Lab                    | -  | - | 2  | -  | - | 1 | 1  |
| 24ITAEC701   | AEC  | Corporate Communication & Employability Skills-II | -  | - | 2  | -  | - | 1 | 1  |
| 24ITPRJ701   | PRJ  | Major Project 1                                   | -  | - | 4  | -  | - | 2 | 2  |
| <b>Total</b> |      |   | 15 | 0 | 14 | 15 | 0 | 7 | 22 |

| Course Code  | Vertical | Course Name                                       | Evaluation Scheme |       |     |     |     |       |
|--------------|----------|---|-------------------|-------|-----|-----|-----|-------|
|              |          |   | IAE-1             | IAE-2 | ESE | TW  | Ext | Total |
| 24ITPCC701   | PCC      | AI and DS –II                                     | 20                | 20    | 60  | 25  | 25  | 150   |
| 24ITPCC702   | PCC      | Internet of Everything                            | 20                | 20    | 60  | 25  | 25  | 150   |
| 24ITPEC701X  | PEC      | Department Level Optional Course 3                | 20                | 20    | 60  | -   | -   | 100   |
| 24ITPEC702X  | PEC      | Department Level Optional Course 4                | 20                | 20    | 60  | -   | -   | 100   |
| 24ILO701X    | OE       | Institute Level Optional Course-1                 | 20                | 20    | 60  | -   | -   | 100   |
| 24ITVSEC701  | VSEC     | Secure Application Development                    |                   |       |     | 25  |     | 25    |
| 24ITVSEC702  | VSEC     | Recent Open Source Project Lab                    |                   |       |     | 25  |     | 25    |
| 24ITAEC701   | AEC      | Corporate Communication & Employability Skills-II |                   |       |     | 25  | -   | 25    |
| 24ITPRJ701   | PRJ      | Major Project 1                                   | -                 | -     | -   | 25  | 50  | 75    |
| <b>Total</b> |          |   | 100               | 100   | 300 | 150 | 100 | 750   |

| DLOC          | Code        | Course                     |
|---------------|-------------|----------------------------|
| <b>DLOC 3</b> | 24ITPEC7011 | Storage Area Network       |
|               | 24ITPEC7012 | High Performance computing |
|               | 24ITPEC7013 | Infrastructure Security    |
|               | 24ITPEC7014 | Software Testing and QA    |

|               |             |                              |
|---------------|-------------|------------------------------|
| <b>DLOC 4</b> | 24ITPEC7021 | MANET                        |
|               | 24ITPEC7022 | AR – VR                      |
|               | 24ITPEC7023 | Quantum Computing            |
|               | 24ITPEC7024 | Information Retrieval System |

| ILOC          | Course Code | Institute Optional Course-I                 |
|---------------|-------------|---|
| <b>ILOC 1</b> | 24ILO7011   | Product Lifecycle Management                |
|               | 24ILO7012   | Reliability Engineering                     |
|               | 24ILO7013   | Management Information System               |
|               | 24ILO7014   | Design of Experiments                       |
|               | 24ILO7015   | Operation Research                          |
|               | 24ILO7016   | Cyber Security and Laws                     |
|               | 24ILO7017   | Disaster Management and Mitigation Measures |
|               | 24ILO7018   | Energy Audit and Management                 |
|               | 24ILO7019   | Development Engineering                     |

**Final Year  
Semester – VIII  
SCHEME: SJCEM R-24**

| Course Code     | Vertical | Course Name                           | Contact Hrs |     |    | Credit Allotted |     |    | Total Credits |
|-----------------|----------|---------------------------------------|-------------|-----|----|-----------------|-----|----|---------------|
|                 |          |                                       | Th          | Tut | Pr | Th              | Tut | Pr |               |
| 24ITPCC801      | PCC      | Blockchain and DLT                    | 3           | -   | 2  | 3               | -   | 1  | 4             |
| 24ITPEC801<br>X | PEC      | Department Level<br>Optional Course 5 | 3           | -   | -  | 3               | -   | -  | 3             |
| 24ITPEC802<br>X | PEC      | Department Level<br>Optional Course 6 | 3           | -   | -  | 3               | -   | -  | 3             |

|              |          |                                    |    |   |    |    |   |   |           |
|--------------|----------|------------------------------------|----|---|----|----|---|---|-----------|
| 24ILOC802X   | OE       | Institute Level Optional Course 2  | 3  | - | -  | 3  | - | - | 3         |
| 24ITVSE802   | VSE<br>C | Cloud computing                    | -  | - | 2  | -  | - | 1 | 1         |
| 24ITVSE801   | VSEC     | Industry Certification             | -  | - | -  | -  | - | 1 | 1         |
| 24ITPRJ801   | PRJ      | Major Project 2 / Internship - III | -  | - | 10 | -  | - | 5 | 5         |
| <b>Total</b> |          |                                    | 12 | 0 | 14 | 12 | 0 | 8 | <b>20</b> |

| Course Code  | Vertical | Course Name                        | Evaluation Scheme |       |     |     |     |       |
|--------------|----------|------------------------------------|-------------------|-------|-----|-----|-----|-------|
|              |          |                                    | IAE-1             | IAE-2 | ESE | TW  | Ext | Total |
| 24ITPCC801   | PCC      | Blockchain and DLT                 | 20                | 20    | 60  | 25  | 25  | 150   |
| 24ITPEC801X  | PEC      | Department Level Optional Course 5 | 20                | 20    | 60  | -   | -   | 100   |
| 24ITPEC802X  | PEC      | Department Level Optional Course 6 | 20                | 20    | 60  | -   | -   | 100   |
| 24ILOC802X   | OE       | Institute Level Optional Course 2  | 20                | 20    | 60  | -   | -   | 100   |
| 24ITVSE802   | VSEC     | Cloud computing                    | -                 | -     | -   | 25  | 25  | 50    |
| 24ITVSE801   | VSEC     | Industry Certification             | -                 | -     | -   | -   | 25  | 25    |
| 24ITPRJ801   | PRJ      | Major Project 2 / Internship - III | -                 | -     | -   | 75  | 50  | 125   |
| <b>Total</b> |          |                                    | 80                | 80    | 240 | 125 | 125 | 650   |

| DLOC          | Code        | Course                       |
|---------------|-------------|------------------------------|
| <b>DLOC 5</b> | 24ITPEC8011 | Big Data Analytics           |
|               | 24ITPEC8012 | Reinforcement learning       |
|               | 24ITPEC8013 | Simulation and Modelling     |
|               | 24ITPEC8014 | Knowledge Management         |
| <b>DLOC 6</b> | 24ITPEC8021 | User Interface Design        |
|               | 24ITPEC8022 | Robotics                     |
|               | 24ITPEC8023 | ERP                          |
|               | 24ITPEC8024 | Cloud computing and Services |

| ILOC          | Course Code | Institute Optional Course-I                 |
|---------------|-------------|---|
| <b>ILOC 2</b> | 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                    |

**Agenda 03 :** To discuss and review the Academic productivity in classroom and laboratory to meet the requirement of Outcome based Education

**Resolution 03:**

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

**Agenda 04:**

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

**Resolution 04:**

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 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

### Semester- III

| Course Code | Vertical | Course Name                       | Examiner 1  | Examiner 2   | Examiner 3   |
|-------------|----------|-----------------------------------|---|--|--|
| 24ITPC C302 | PCC      | Data Structures                   | Mr. Abhaysinh Bhosale<br>SJCEM<br>7875279135<br>abhaysinhb@sjcem.edu.in     | Mrs. Vishakha Shelke<br>DJSCE<br>9819420431<br>vishakha.shelke@djsce.ac.in | Mrs. Prachiti Pimple<br>SFIT<br>7666017251<br>prachiti@sfit.ac.in            |
| 24ITPC C304 | PCC      | Database Management System        | Ms. Tanvi s Patil<br>SJCEM<br>8552045569<br>tanvip@sjcem.edu.in             | Mrs. Priya Chaudhari<br>SFIT<br>9860326761<br>priyachaudhari@sfit.ac.in    | Mrs. Sneha Sankhe<br>Theem College<br>9975231923<br>sneha.sakhne@themcoe.org |
| 24ITPC C305 | PCC      | Programming Language I (C++/Java) | Mr. Manthankumar Surti<br>SJCEM<br>9574587420<br>manthankumars@sjcem.edu.in | Ms. Tanvi s Patil<br>SJCEM<br>8552045569<br>tanvip@sjcem.edu.in            | Dr. Nilesh Patil<br>DJSCE<br>7350791320<br>nilesh.p@djsce.ac.in              |

### Semester- IV

| Course Code | Vertical | Course Name                | Examiner 1   | Examiner 2   | Examiner 3  |
|-------------|----------|----------------------------|--|--|---|
| 24ITPC C401 | PCC      | Statistics and Probability | Ms. Dhanashree Pawagi<br>SJCEM<br>9624017727<br>dhanashreep@sjcem.edu.in | Ms. Reshma Chavan<br>SJCEM<br>98670 30907<br>reshmac@sjcem.edu.in          | Mayur Gohil<br>VCET, Vasai<br>8355801862<br>mayurgohil@gmail.com        |
| 24ITPC C402 | PCC      | Analysis of Algorithm      | Mr. Abhaysinh Bhosale<br>SJCEM<br>7875279135<br>abhaysinhb@sjcem.edu.in  | Mrs. Vishakha Shelke<br>DJSCE<br>9819420431<br>vishakha.shelke@djsce.ac.in | Mrs. Prachiti Pimple<br>SFIT<br>7666017251<br>prachiti@sfit.ac.in       |
| 24ITPC C403 | PCC      | Computer Networks          | Ms. Maya Patil<br>SJCEM<br>9970407910<br>mayap@sjcem.edu.in              | Dr. Arun Saxena<br>SJCEM<br>9839152015<br>aruns@sjcem.edu.in               | Mrs. Krunali Vartak<br>VCET<br>8149707902<br>Krunali.vartak@vcet.edu.in |

|                |      |   |   |   |  |
|----------------|------|---|---|---|--|
| 24ITPC<br>C404 | PCC  | Operating System                                      | Ms. Tanvi s Patil<br>SJCEM<br>8552045569<br>tanvip@sjcem.edu.in             | Mr. Manthankumar Surti<br>SJCEM<br>9574587420<br>manthankumars@sjcem.edu.in | Dr. Yogita Mane<br>TCET<br>9764257447<br>yogita.ydmane@gmail.com             |
| 24ITPC<br>C405 | PCC  | Programming Language II (Python)                      | Mr. Manthankumar Surti<br>SJCEM<br>9574587420<br>manthankumars@sjcem.edu.in | Ms. Tanvi s Patil<br>SJCEM<br>8552045569<br>tanvip@sjcem.edu.in             | Dr. Nilesh Patil<br>DJSCE<br>7350791320<br>nilesh.p@djsce.ac.in              |
| 24ITAE<br>C401 | AEC  | Employability Enhancement Program – 3 (Communication) | Mr. Beatrice Lobo,<br>SJCEM<br>98216 64410,<br>beatricel@sjcem.edu.in       | Dr. Eknath Patil,<br>SJCEM<br>99211 18025<br>eknathp@sjcem.edu.in           | Mr. Rishabh Melwanki,<br>VCET, Vasai<br>9029353539<br>rishabhm2355@gmail.com |
| 24ITVS<br>E401 | VSEC | Employability Enhancement Program – 4 (Technical)     | Mr. Beatrice Lobo<br>SJCEM<br>98216 64410<br>beatricel@sjcem.edu.in         | Dr. Eknath Patil<br>SJCEM<br>99211 18025<br>eknathp@sjcem.edu.in            | Mr. Rishabh Melwanki<br>VCET, Vasai<br>9029353539<br>rishabhm2355@gmail.com  |

### Semester- V

| Course Code | Vertical | Course Name               | Examiner 1  | Examiner 2  | Examiner 3  |
|-------------|----------|---------------------------|---|---|---|
| 24ITPCC501  | PCC      | Internet Programming      | Ms. Tanvi s Patil<br>SJCEM<br>8552045569<br>tanvip@sjcem.edu.in         | Ms. Abira Banik<br>SJCEM<br>943674140<br>abirab@sjcem.edu.in    | Ms. Annies Minu<br>SFIT<br>99672 11380<br>anniesminu@sfit.ac.in         |
| 24ITPCC502  | PCC      | Computer Network Security | Dr. Arun Saxena,<br>SJCEM<br>9839152015<br>aruns@sjcem.edu.in           | Ms. Maya Patil<br>SJCEM<br>9970407910<br>mayap@sjcem.edu.in     | Mrs. Krunali Vartak<br>VCET<br>8149707902<br>Krunali.vartak@vcet.edu.in |
| 24ITVSE501  | VSEC     | DevOPs Lab                | Mr. Abhaysinh Bhosale<br>SJCEM<br>7875279135<br>abhaysinhb@sjcem.edu.in | Ms. Tanvi s Patil<br>SJCEM<br>8552045569<br>tanvip@sjcem.edu.in | Mrs. Priya Chaudhari<br>SFIT<br>9860326761<br>priyachaudhari@sfit.ac.in |
| 24ITVSE     | VSEC     | Skill                     | Ms. Tanvi s Patil   | Dr. Nilesh Patil  | Mrs. Sneha Sankhe   |

|     |  |                             |  |   |  |
|-----|--|-----------------------------|--|---|--|
| 503 |  | Based Lab with Mini Project | SJCEM<br>8552045569<br>tanvip@sjcem.edu.in | DJSCE<br>7350791320<br>nilesh.p@djsce.ac.in | Theem College<br>9975231923<br>sneha.sakhne@theemcoe.org |
|-----|--|-----------------------------|--|---|--|

### Semester- VI

| Course Code | Vertical | Course Name                                   | Examiner 1  | Examiner 2  | Examiner 3  |
|-------------|----------|---|---|---|---|
| 24ITPC C601 | PCC      | Data Mining & Business Intelligence           | Ms. Tanvi Patil<br>SJCEM<br>8552045569<br>tanvip@sjcem.edu.in               | Ms. Annes Minu<br>SFIT<br>99672 11380<br>anniesminu@sfit.ac.in          | Ms. Snehal Mhatre<br>VCET<br>72197 04314<br>snehal.mhatre@vceet.edu.in        |
| 24ITPC C602 | PCC      | Web X.0                                       | Mr. Manthankumar Surti<br>SJCEM<br>9574587420<br>manthankumars@sjcem.edu.in | Mrs. Priya Chaudhari<br>SFIT<br>9860326761<br>priyachaudhari@sfit.ac.in | Mrs. Sneha Sankhe<br>Theem College<br>9975231923<br>sneha.sakhne@theemcoe.org |
| 24ITPC C604 | PCC      | AI and DS – 1                                 | Ms. Tanvi Patil<br>SJCEM<br>8552045569<br>tanvip@sjcem.edu.in               | Ms. Maya Patil,<br>SJCEM<br>9970407910<br>mayap@sjcem.edu.in            | Mrs. Sneha Sankhe<br>Theem College<br>9975231923<br>sneha.sakhne@theemcoe.org |
| 24ITVS E601 | VSEC     | Employability Enhancement Program (Technical) | Mr. Beatrice Lobo<br>SJCEM<br>98216 64410,<br>beatricel@sjcem.edu.in        | Dr. Eknath Patil<br>SJCEM<br>99211 18025<br>eknathp@sjcem.edu.in        | Mr. Rishabh Melwanki<br>VCET Vasai<br>rishabhm2355@gmail.com                  |

### Semester- VII

| Course Code | Vertical | Course Name            | Examiner 1  | Examiner 2  | Examiner 3   |
|-------------|----------|------------------------|---|---|--|
| 24ITPC C701 | PCC      | AI and DS –II          | Ms. Tanvi Patil<br>SJCEM<br>8552045569<br>tanvip@sjcem.edu.in | Mrs. Anagha Patil<br>VCET<br>90040 78402<br>anagha.patil@vceet.edu.in | Dr. Nilesh Patil<br>DJSCE<br>7350791320<br>nilesh.p@djsce.ac.in        |
| 24ITPC C702 | PCC      | Internet of Everything | Dr. Arun Saxena,<br>SJCEM<br>9839152015<br>aruns@sjcem.edu.in | Ms. Annes Minu<br>SFIT<br>99672 11380<br>anniesminu@sfit.ac.in        | Ms. Snehal Mhatre<br>VCET<br>72197 04314<br>snehal.mhatre@vceet.edu.in |

|                |     |                       |  |   |   |
|----------------|-----|-----------------------|--|---|---|
| 24ITPRJ<br>701 | PRJ | Major<br>Project<br>1 | Mr. Manthankumar<br>Surti<br>SJCEM<br>9574587420<br>manthankumars@sjc<br>em.edu.in | Dr. Nilesh Patil<br>DJSCE<br>7350791320<br>nilesh.p@djsce.a<br>c.in | Mrs. Sneha Sankhe<br>Theem College<br>9975231923<br>sneha.sakhne@thee<br>mcoe.org |
|----------------|-----|-----------------------|--|---|---|

### Semester- VIII

| Course Code     | Vertical | Course Name           | Examiner 1   | Examiner 2  | Examiner 3   |
|-----------------|----------|-----------------------|--|---|--|
| 24ITPCC<br>801  | PCC      | Blockchain and DLT    | Dr. Arun Saxena,<br>SJCEM<br>9839152015<br>aruns@sjcem.e<br>du.in      | Mrs. Anagha Patil<br>VCET<br>90040 78402<br>anagha.patil@vcet.<br>edu.in      | Dr. Nilesh Patil<br>DJSCE<br>7350791320<br>nilesh.p@djsce.ac.in                      |
| 24ITPEC8<br>02X | PEC      | User Interface Design | Dr. Arun Saxena<br>SJCEM<br>9839152015<br>aruns@sjcem.e<br>du.in       | Mr. Abhysinh<br>Bhosale<br>SJCEM<br>7875279135<br>abhaysinhb@sjcem<br>.edu.in | Mr. Rupesh Mishra<br>SFIT<br>8767952077<br>rupeshmishra@sfit.a<br>c.in               |
| 24ILOC8<br>02X  | OE       | Project Management    | Ms. Tanvi S<br>Patil<br>SJCEM<br>8552045569<br>tanvip@sjcem.<br>edu.in | Dr. Arun Saxena<br>SJCEM<br>9839152015<br>aruns@sjcem.edu.i<br>n              | Dr. Archana Ekbote<br>VCET<br>9850673911<br>archan.ekbote@vcet.<br>edu.in            |
| 24ITVSE<br>802  | VSEC     | Cloud computing       | Mrs. Maya Patil<br>SJCEM<br>9970407910<br>mayap@sjcem.<br>edu.in       | Dr. Yogita Mane<br>TCET<br>9764257447<br>yogita.ydmane@g<br>mail.com          | Mrs. Vaishali<br>Shirsath<br>VCET<br>8408013344<br>vaishali.shirsath@vc<br>et.edu.in |
| 24ITPRJ8<br>01  | PRJ      | Major<br>Project 2    | Dr. Arun Saxena<br>SJCEM<br>9839152015<br>aruns@sjcem.e<br>du.in       | Dr. Nilesh Patil<br>DJSCE<br>7350791320<br>nilesh.p@djsce.ac.i<br>n           | Mrs. Sneha Sankhe<br>Theem College<br>9975231923<br>sneha.sakhne@thee<br>mcoe.org    |

#### Agenda 05:

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 05:**

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

There were no additional points to discuss, the meeting concluded with a vote of thanks by Ms. Shraddha More.

**Dr. Arun Saxena**

**BOS Chairman**

**Information Technology Department**