



## Yearly Status Report - 2019-2020

### Part A

#### Data of the Institution

|                                               |                                         |
|-----------------------------------------------|-----------------------------------------|
| 1. Name of the Institution                    | JIS COLLEGE OF ENGINEERING (AUTONOMOUS) |
| Name of the head of the Institution           | Dr. Partha Sarkar                       |
| Designation                                   | Principal                               |
| Does the Institution function from own campus | Yes                                     |
| Phone no/Alternate Phone no.                  | 03325808560                             |
| Mobile no.                                    | 9330905758                              |
| Registered Email                              | principal_jisce@jisgroup.org            |
| Alternate Email                               | registrar.jisce@jisgroup.org            |
| Address                                       | Block-A, Phase-III                      |
| City/Town                                     | Kalyani                                 |
| State/UT                                      | West Bengal                             |
| Pincode                                       | 741235                                  |

#### 2. Institutional Status

|                                                                     |                                                 |
|---------------------------------------------------------------------|-------------------------------------------------|
| Autonomous Status (Provide date of Conformant of Autonomous Status) | <b>31-Oct-2011</b>                              |
| Type of Institution                                                 | <b>Co-education</b>                             |
| Location                                                            | <b>Urban</b>                                    |
| Financial Status                                                    | <b>private</b>                                  |
| Name of the IQAC co-ordinator/Director                              | <b>Dr. Papun Biswas</b>                         |
| Phone no/Alternate Phone no.                                        | <b>03325808560</b>                              |
| Mobile no.                                                          | <b>9433766654</b>                               |
| Registered Email                                                    | <b>iqac@jiscollge.ac.in</b>                     |
| Alternate Email                                                     | <b>dean_innovativelearnings@jiscollge.ac.in</b> |

### 3. Website Address

|                                                                          |                                                                                                                      |
|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Web-link of the AQAR: (Previous Academic Year)                           | <a href="https://www.jiscollge.ac.in/pdf/jisceaqar18-19.pdf">_https://www.jiscollge.ac.in/pdf/jisceaqar18-19.pdf</a> |
| <b>4. Whether Academic Calendar prepared during the year</b>             | <b>Yes</b>                                                                                                           |
| if yes,whether it is uploaded in the institutional website:<br>Weblink : | <a href="https://www.jiscollge.ac.in/pdf/aceven2019-20.pdf">https://www.jiscollge.ac.in/pdf/aceven2019-20.pdf</a>    |

### 5. Accreditation Details

| Cycle    | Grade    | CGPA        | Year of Accreditation | Validity           |                    |
|----------|----------|-------------|-----------------------|--------------------|--------------------|
|          |          |             |                       | Period From        | Period To          |
| <b>1</b> | <b>B</b> | <b>2.72</b> | <b>2009</b>           | <b>15-Jun-2009</b> | <b>14-Jun-2014</b> |
| <b>2</b> | <b>A</b> | <b>3.02</b> | <b>2015</b>           | <b>03-Mar-2015</b> | <b>02-Mar-2020</b> |

|                                         |                    |
|-----------------------------------------|--------------------|
| <b>6. Date of Establishment of IQAC</b> | <b>26-Jun-2010</b> |
|-----------------------------------------|--------------------|

### 7. Internal Quality Assurance System

| Quality initiatives by IQAC during the year for promoting quality culture |                 |                                       |
|---------------------------------------------------------------------------|-----------------|---------------------------------------|
| Item /Title of the quality initiative by IQAC                             | Date & Duration | Number of participants/ beneficiaries |
|                                                                           |                 |                                       |

|                                   |                  |     |
|-----------------------------------|------------------|-----|
| Odd Semester Result Analysis      | 14-Feb-2020<br>1 | 15  |
| IQAC Meeting                      | 25-Jul-2019<br>1 | 14  |
| Feedback Collection               | 08-Aug-2019<br>5 | 195 |
| Academic Administrative Audit     | 29-Jul-2019<br>2 | 215 |
| IQAC Meeting                      | 30-Oct-2019<br>1 | 15  |
| NBA Status                        | 06-Nov-2019<br>3 | 210 |
| Feedback Analysis                 | 18-Dec-2019<br>3 | 384 |
| Meeting for participation at NIRF | 20-Dec-2019<br>2 | 24  |
| IQAC Meeting                      | 04-Mar-2020<br>1 | 14  |
| Workshop on OBE                   | 17-Jan-2020<br>1 | 132 |
| <a href="#">View File</a>         |                  |     |

8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

| Institution/Department/Faculty                                | Scheme                                   | Funding Agency        | Year of award with duration | Amount  |
|---------------------------------------------------------------|------------------------------------------|-----------------------|-----------------------------|---------|
| JIS College of Engineering                                    | DST FIST                                 | DST, Govt. of India   | 2018<br>1825                | 6000000 |
| JIS College of Engineering - First Flipped Institute in India | Digital Pedagogy                         | World Bank Group      | 2018<br>365                 | 0       |
| JIS College of Engineering                                    | National Institutional Ranking Framework | Ministry of Education | 2020<br>365                 | 0       |
| No Files Uploaded !!!                                         |                                          |                       |                             |         |

|                                                               |                           |
|---------------------------------------------------------------|---------------------------|
| 9. Whether composition of IQAC as per latest NAAC guidelines: | Yes                       |
| Upload latest notification of formation of IQAC               | <a href="#">View File</a> |
| 10. Number of IQAC meetings held during the year :            | 3                         |

| The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Yes                                                 |                        |                      |                                             |                                          |                |                                             |                                            |                                                     |                   |                   |                       |                           |                        |                           |                              |                   |                           |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------------------|----------------------|---------------------------------------------|------------------------------------------|----------------|---------------------------------------------|--------------------------------------------|-----------------------------------------------------|-------------------|-------------------|-----------------------|---------------------------|------------------------|---------------------------|------------------------------|-------------------|---------------------------|--|
| Upload the minutes of meeting and action taken report                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <a href="#">View File</a>                           |                        |                      |                                             |                                          |                |                                             |                                            |                                                     |                   |                   |                       |                           |                        |                           |                              |                   |                           |  |
| <b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | No                                                  |                        |                      |                                             |                                          |                |                                             |                                            |                                                     |                   |                   |                       |                           |                        |                           |                              |                   |                           |  |
| <b>12. Significant contributions made by IQAC during the current year(maximum five bullets)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                     |                        |                      |                                             |                                          |                |                                             |                                            |                                                     |                   |                   |                       |                           |                        |                           |                              |                   |                           |  |
| 1. Successfully participated in NIRF and placed in a rank band within 300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                     |                        |                      |                                             |                                          |                |                                             |                                            |                                                     |                   |                   |                       |                           |                        |                           |                              |                   |                           |  |
| 2. Preparation and submission of IIQA and SSR for CYCLE 3 NAAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                     |                        |                      |                                             |                                          |                |                                             |                                            |                                                     |                   |                   |                       |                           |                        |                           |                              |                   |                           |  |
| 3. Academic Audit following NBA guidelines as per Tier I institutions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                     |                        |                      |                                             |                                          |                |                                             |                                            |                                                     |                   |                   |                       |                           |                        |                           |                              |                   |                           |  |
| 4. Implementation of Phase-2 Digital Pedagogy at Institute                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                     |                        |                      |                                             |                                          |                |                                             |                                            |                                                     |                   |                   |                       |                           |                        |                           |                              |                   |                           |  |
| 5. Participation in IIC and secured 4 star rating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                     |                        |                      |                                             |                                          |                |                                             |                                            |                                                     |                   |                   |                       |                           |                        |                           |                              |                   |                           |  |
| <div>No Files Uploaded !!!</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                     |                        |                      |                                             |                                          |                |                                             |                                            |                                                     |                   |                   |                       |                           |                        |                           |                              |                   |                           |  |
| <b>13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                     |                        |                      |                                             |                                          |                |                                             |                                            |                                                     |                   |                   |                       |                           |                        |                           |                              |                   |                           |  |
| <table border="1"> <thead> <tr> <th>Plan of Action</th> <th>Achivements/Outcomes</th> </tr> </thead> <tbody> <tr> <td>Implementation of Digital Pedagogy Phase II</td> <td>Improve in teaching learning methodology</td> </tr> <tr> <td>Academic Audit</td> <td>Conducted audit as per NBA Tier-I guideline</td> </tr> <tr> <td>Organizing three International Conferences</td> <td>Three international conferences have been organized</td> </tr> <tr> <td>Submission of SSR</td> <td>Submitted on time</td> </tr> <tr> <td>Participation in NIRF</td> <td>Successfully participated</td> </tr> <tr> <td>Participation in ARIIA</td> <td>Successfully participated</td> </tr> <tr> <td>End Semester result analysis</td> <td>Successfully done</td> </tr> <tr> <td colspan="2"><a href="#">View File</a></td> </tr> </tbody> </table> |                                                     | Plan of Action         | Achivements/Outcomes | Implementation of Digital Pedagogy Phase II | Improve in teaching learning methodology | Academic Audit | Conducted audit as per NBA Tier-I guideline | Organizing three International Conferences | Three international conferences have been organized | Submission of SSR | Submitted on time | Participation in NIRF | Successfully participated | Participation in ARIIA | Successfully participated | End Semester result analysis | Successfully done | <a href="#">View File</a> |  |
| Plan of Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Achivements/Outcomes                                |                        |                      |                                             |                                          |                |                                             |                                            |                                                     |                   |                   |                       |                           |                        |                           |                              |                   |                           |  |
| Implementation of Digital Pedagogy Phase II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Improve in teaching learning methodology            |                        |                      |                                             |                                          |                |                                             |                                            |                                                     |                   |                   |                       |                           |                        |                           |                              |                   |                           |  |
| Academic Audit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Conducted audit as per NBA Tier-I guideline         |                        |                      |                                             |                                          |                |                                             |                                            |                                                     |                   |                   |                       |                           |                        |                           |                              |                   |                           |  |
| Organizing three International Conferences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Three international conferences have been organized |                        |                      |                                             |                                          |                |                                             |                                            |                                                     |                   |                   |                       |                           |                        |                           |                              |                   |                           |  |
| Submission of SSR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Submitted on time                                   |                        |                      |                                             |                                          |                |                                             |                                            |                                                     |                   |                   |                       |                           |                        |                           |                              |                   |                           |  |
| Participation in NIRF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Successfully participated                           |                        |                      |                                             |                                          |                |                                             |                                            |                                                     |                   |                   |                       |                           |                        |                           |                              |                   |                           |  |
| Participation in ARIIA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Successfully participated                           |                        |                      |                                             |                                          |                |                                             |                                            |                                                     |                   |                   |                       |                           |                        |                           |                              |                   |                           |  |
| End Semester result analysis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Successfully done                                   |                        |                      |                                             |                                          |                |                                             |                                            |                                                     |                   |                   |                       |                           |                        |                           |                              |                   |                           |  |
| <a href="#">View File</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                     |                        |                      |                                             |                                          |                |                                             |                                            |                                                     |                   |                   |                       |                           |                        |                           |                              |                   |                           |  |
| <b>14. Whether AQAR was placed before statutory body ?</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Yes                                                 |                        |                      |                                             |                                          |                |                                             |                                            |                                                     |                   |                   |                       |                           |                        |                           |                              |                   |                           |  |
| <table border="1"> <thead> <tr> <th>Name of Statutory Body</th> <th>Meeting Date</th> </tr> </thead> <tbody> <tr> <td>Academic Council</td> <td>11-Aug-2021</td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                     | Name of Statutory Body | Meeting Date         | Academic Council                            | 11-Aug-2021                              |                |                                             |                                            |                                                     |                   |                   |                       |                           |                        |                           |                              |                   |                           |  |
| Name of Statutory Body                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Meeting Date                                        |                        |                      |                                             |                                          |                |                                             |                                            |                                                     |                   |                   |                       |                           |                        |                           |                              |                   |                           |  |
| Academic Council                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 11-Aug-2021                                         |                        |                      |                                             |                                          |                |                                             |                                            |                                                     |                   |                   |                       |                           |                        |                           |                              |                   |                           |  |

|                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ? | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 16. Whether institutional data submitted to AISHE:                                                              | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Year of Submission                                                                                              | 2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Date of Submission                                                                                              | 18-Feb-2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 17. Does the Institution have Management Information System ?                                                   | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| If yes, give a brief description and a list of modules currently operational (maximum 500 words)                | <p>JIS College of Engineering has its own Management Information System through which stakeholders can execute routine activities. This system operates on cloudbased platform that automates the administration, tracking, reporting of training events. It provides the platform through which any teacher and student may connect each other as and when required which in turns best quality of teachinglearning. The executes system has the following facilities as a) Centralize and automate administration b) Use selfservice and selfguided services c) Assemble and deliver learning content rapidly d) Consolidate training initiatives on a scalable webbased platform e) Support portability and standards f) Personalize content and enable knowledge reuse g) Integration with HR and Finance Section h) Administration tools i) Content Access j) Content development k) Content integration l) Skills management m) Assessment capabilities n) Adherence to standards Configuration? o) 24 by 7 Access with Security The following activity heads are maintained through MIS: 1. Accounts and financial management through ERP 2. Online Admission Process through ERP 3. Store and material requisition through ERP 4. HR Module, Staff attendance biometric and leave approval The institute has a full Learning Management system (LMS) [<a href="https://bluowl.in/lauth/login">https://bluowl.in/lauth/login</a>] for faculty and students for a smooth teachinglearning process. Through this LMS a faculty can conduct online classes, can give class contents in any</p> |

digital form, assignments, attendance, MCQ etc. for the students. At the same time, students also can access and download all the content sent by the instructor and can submit assignments, can post any query at his comfortable time. Students can know their own attendance in each theory and practical basis, mentees can communicate with his/her mentors and inform the requirements and required information. Faculty concern can identify their personal routine and as well class routine. Everyone can identify the progress of the syllabus completion of the topics. They may close look at the student's attendance and as well as students' performance of the corresponding subjects and guide accordingly. The library system consists of Central and departmental libraries considered as integrated Knowledge Resource Centers with array of print and digital information sources of every relevant field of academic and research activities. Central Library began the process of automation in 2004, with barcode technology using a fully automated process with commercial ILMS, LIBSYS version 4.0. In 2017, the College introduced webbased library management software, LibMan to improve and streamline library operations in a more effective and efficient manner. The software is extensively used for all library activities, like cataloging, circulation, Web OPAC, generating all the reports of the Library. Presently all the library books are circulated with the help of barcode technology. With the LibMan version 5.3, the library provides Web OPAC (Webbased Online Public Access Catalog) facility to its clients and users can search the library collection remotely. Link for OPAC [http://122.252.249.26:92/forms/frm\\_dashboard.aspx?id1001](http://122.252.249.26:92/forms/frm_dashboard.aspx?id1001)

## Part B

### CRITERION I – CURRICULAR ASPECTS

#### 1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

| Name of Programme | Programme Code | Programme Specialization | Date of Revision  |
|-------------------|----------------|--------------------------|-------------------|
| <b>BTech</b>      | <b>EE</b>      | <b>Electrical</b>        | <b>22/05/2019</b> |

|                           |             |                                                    |                   |
|---------------------------|-------------|----------------------------------------------------|-------------------|
|                           |             | <b>Engineering</b>                                 |                   |
| <b>BTech</b>              | <b>ECE</b>  | <b>Electronics and Communication Engineering</b>   | <b>22/05/2019</b> |
| <b>BTech</b>              | <b>IT</b>   | <b>Information Technology</b>                      | <b>22/05/2019</b> |
| <b>BTech</b>              | <b>CSE</b>  | <b>Computer Science and Engineering</b>            | <b>22/05/2019</b> |
| <b>BTech</b>              | <b>ME</b>   | <b>Mechanical Engineering</b>                      | <b>22/05/2019</b> |
| <b>BTech</b>              | <b>BME</b>  | <b>Bio-Medical Engineering</b>                     | <b>22/05/2019</b> |
| <b>BTech</b>              | <b>CE</b>   | <b>Civil Engineering</b>                           | <b>22/05/2019</b> |
| <b>Mtech</b>              | <b>EDPS</b> | <b>Electrical Devices and Power Systems</b>        | <b>22/05/2019</b> |
| <b>Mtech</b>              | <b>MCNT</b> | <b>Mobile Communication and Network Technology</b> | <b>22/05/2019</b> |
| <b>Mtech</b>              | <b>MME</b>  | <b>Mechanical Engineering</b>                      | <b>22/05/2019</b> |
| <a href="#">View File</a> |             |                                                    |                   |

1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

| Programme with Code | Programme Specialization                           | Date of Introduction | Course with Code                                          | Date of Introduction |
|---------------------|----------------------------------------------------|----------------------|-----------------------------------------------------------|----------------------|
| <b>BTech</b>        | <b>Civil Engineering</b>                           | <b>01/07/2011</b>    | <b>Urban Planning CE 704C</b>                             | <b>01/07/2019</b>    |
| <b>Mtech</b>        | <b>Electrical Devices and Power Systems</b>        | <b>01/07/2005</b>    | <b>Power System Analysis EDPM101</b>                      | <b>01/07/2019</b>    |
| <b>Mtech</b>        | <b>Mobile Communication and Network Technology</b> | <b>01/07/2005</b>    | <b>WIRELESS AND MOBILE COMMUNICATION MCE101</b>           | <b>01/07/2019</b>    |
| <b>Mtech</b>        | <b>Mechanical Engineering</b>                      | <b>01/07/2009</b>    | <b>Mechatronics Systems- Applications Control MME 201</b> | <b>01/07/2019</b>    |
| <b>BTech</b>        | <b>Electrical Engineering</b>                      | <b>01/09/2000</b>    | <b>Advanced Electric Drives EE 802A</b>                   | <b>01/07/2019</b>    |
| <b>BTech</b>        | <b>Electronics and Communication Engineering</b>   | <b>01/09/2000</b>    | <b>Internet of Things (IOT) EC 702C</b>                   | <b>01/07/2019</b>    |
| <b>BTech</b>        | <b>Information Technology</b>                      | <b>01/09/2000</b>    | <b>Big Data Analytics</b>                                 | <b>01/07/2019</b>    |

|                           |                                         |                   |                                                  |                   |
|---------------------------|-----------------------------------------|-------------------|--------------------------------------------------|-------------------|
|                           |                                         |                   | <b>IT791A</b>                                    |                   |
| <b>BTech</b>              | <b>Computer Science and Engineering</b> | <b>01/09/2000</b> | <b>Data Warehousing and Data Mining CS606A</b>   | <b>01/07/2019</b> |
| <b>BTech</b>              | <b>Mechanical Engineering</b>           | <b>01/07/2009</b> | <b>Nuclear Power Generation Supply ME 702B</b>   | <b>01/07/2019</b> |
| <b>BTech</b>              | <b>Bio-Medical Engineering</b>          | <b>01/07/2003</b> | <b>RADIOTHERAPY NUCLEAR MEDICINE BME 802ABME</b> | <b>01/07/2019</b> |
| <a href="#">View File</a> |                                         |                   |                                                  |                   |

## 1.2 – Academic Flexibility

### 1.2.1 – New programmes/courses introduced during the Academic year

| Programme/Course          | Programme Specialization                           | Dates of Introduction |
|---------------------------|----------------------------------------------------|-----------------------|
| <b>Mtech</b>              | <b>Electrical Devices and Power Systems</b>        | <b>22/05/2019</b>     |
| <b>BTech</b>              | <b>Civil Engineering</b>                           | <b>22/05/2019</b>     |
| <b>BTech</b>              | <b>Bio-Medical Engineering</b>                     | <b>22/05/2019</b>     |
| <b>BTech</b>              | <b>Mechanical Engineering</b>                      | <b>22/05/2019</b>     |
| <b>BTech</b>              | <b>Electrical Engineering</b>                      | <b>22/05/2019</b>     |
| <b>BTech</b>              | <b>Electronics and Communication Engineering</b>   | <b>22/05/2019</b>     |
| <b>BTech</b>              | <b>Information Technology</b>                      | <b>22/05/2019</b>     |
| <b>BTech</b>              | <b>Computer Science and Engineering</b>            | <b>22/05/2019</b>     |
| <b>Mtech</b>              | <b>Mobile Communication and Network Technology</b> | <b>22/05/2019</b>     |
| <b>Mtech</b>              | <b>Mechanical Engineering</b>                      | <b>22/05/2019</b>     |
| <a href="#">View File</a> |                                                    |                       |

### 1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

| Name of programmes adopting CBCS | Programme Specialization                           | Date of implementation of CBCS/Elective Course System |
|----------------------------------|----------------------------------------------------|-------------------------------------------------------|
| <b>BTech</b>                     | <b>Civil Engineering</b>                           | <b>01/07/2019</b>                                     |
| <b>Mtech</b>                     | <b>Electrical Devices and Power Systems</b>        | <b>01/07/2019</b>                                     |
| <b>Mtech</b>                     | <b>Mobile Communication and Network Technology</b> | <b>01/07/2019</b>                                     |
| <b>Mtech</b>                     | <b>Mechanical Engineering</b>                      | <b>01/07/2019</b>                                     |
| <b>Mtech</b>                     | <b>Computer Science and Engineering</b>            | <b>01/07/2019</b>                                     |
| <b>BTech</b>                     | <b>Electrical Engineering</b>                      | <b>01/07/2019</b>                                     |
| <b>BTech</b>                     | <b>Electronics and</b>                             | <b>01/07/2019</b>                                     |

|       |                                  |            |
|-------|----------------------------------|------------|
|       | Communication Engineering        |            |
| BTech | Information Technology           | 01/07/2019 |
| BTech | Computer Science and Engineering | 01/07/2019 |
| BTech | Mechanical Engineering           | 01/07/2019 |
| BTech | Bio-Medical Engineering          | 01/07/2019 |

### 1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

| Value Added Courses                       | Date of Introduction | Number of Students Enrolled |
|-------------------------------------------|----------------------|-----------------------------|
| <b>No Data Entered/Not Applicable !!!</b> |                      |                             |
| <a href="#">View File</a>                 |                      |                             |

1.3.2 – Field Projects / Internships under taken during the year

| Project/Programme Title   | Programme Specialization                    | No. of students enrolled for Field Projects / Internships |
|---------------------------|---------------------------------------------|-----------------------------------------------------------|
| BTech                     | Electrical Engineering                      | 377                                                       |
| BTech                     | Electronics and Communication Engineering   | 402                                                       |
| BTech                     | Information Technology                      | 267                                                       |
| BTech                     | Computer Science and Engineering            | 537                                                       |
| BTech                     | Mechanical Engineering                      | 279                                                       |
| BTech                     | Bio-Medical Engineering                     | 123                                                       |
| BTech                     | Civil Engineering                           | 334                                                       |
| Mtech                     | Electrical Devices and Power Systems        | 16                                                        |
| Mtech                     | Mechanical Engineering                      | 7                                                         |
| Mtech                     | Mobile Communication and Network Technology | 1                                                         |
| <a href="#">View File</a> |                                             |                                                           |

### 1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

|           |     |
|-----------|-----|
| Students  | Yes |
| Teachers  | Yes |
| Employers | Yes |
| Alumni    | Yes |
| Parents   | Yes |

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution?  
(maximum 500 words)

| Feedback Obtained                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Feedbacks are taken from various stakeholders (students, teachers, parents, alumni and employers) on curricular, co-curricular and extracurricular activities regularly. The process of feedback collection is in online and</b> |

offline mode. The response rate and mean ratings of the feedback is taken on the basis of a nine point scales which are "Extremely Good (9)", "Very Good (8)", "Good (7)", "Moderately Good (6)", "Moderate (5)", "Somehow Tolerable (4)", "Poor (3)", "Very Poor (2)" and "Extremely Poor (1)". Final rating is marked as "Excellent" if Average Scores is greater than 8. Final rating is marked as "Very good" if average scores is less than or equal to 8 but greater than 6. Final rating is marked as "good" if average scores is less than or equal to 6 but greater than 4 and so on. The obtained feedbacks are analyzed and then gaps are identified and the same is approved by the department. Feedback analysis helps in monitoring and improving the quality of student's learning experiences and curriculum delivery. This is done by timely collection, analysis and reporting of student's feedback concerning teaching, learning and assessment. Through the feedback system the students and the stakeholders get opportunity to actively participate in the continuous improvement of programs. All the feedbacks received from various stakeholders are summarized and analysis is carried out at various levels. Recommendations concluded from the feedback are submitted to academic committee of institution for improvement in the academics. In addition to curriculum, feedback are also taken on co-curricular, extracurricular, Infrastructure and other facilities. These help in improving the overall development of the institution.

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

#### 2.1.1 – Demand Ratio during the year

| Name of the Programme | Programme Specialization                  | Number of seats available | Number of Application received | Students Enrolled |
|-----------------------|-------------------------------------------|---------------------------|--------------------------------|-------------------|
| BTech                 | Electrical Engineering                    | 120                       | 126                            | 119               |
| BTech                 | Mechanical Engineering                    | 120                       | 107                            | 101               |
| BTech                 | Bio-Medical Engineering                   | 60                        | 48                             | 45                |
| BTech                 | Civil Engineering                         | 120                       | 106                            | 102               |
| BTech                 | Computer Science and Engineering          | 120                       | 151                            | 142               |
| BTech                 | Electronics and Communication Engineering | 120                       | 128                            | 123               |
| BTech                 | Information Technology                    | 60                        | 71                             | 66                |

[View File](#)

### 2.2 – Catering to Student Diversity

#### 2.2.1 – Student - Full time teacher ratio (current year data)

| Year | Number of students enrolled in the institution (UG) | Number of students enrolled in the institution (PG) | Number of fulltime teachers available in the institution teaching only UG courses | Number of fulltime teachers available in the institution teaching only PG courses | Number of teachers teaching both UG and PG courses |
|------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------|
|      |                                                     |                                                     |                                                                                   |                                                                                   |                                                    |

|      |      |    |     |    |    |
|------|------|----|-----|----|----|
| 2019 | 2407 | 77 | 179 | 17 | 14 |
|------|------|----|-----|----|----|

## 2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

| Number of Teachers on Roll                                   | Number of teachers using ICT (LMS, e-Resources) | ICT Tools and resources available | Number of ICT enabled Classrooms | Number of smart classrooms | E-resources and techniques used |
|--------------------------------------------------------------|-------------------------------------------------|-----------------------------------|----------------------------------|----------------------------|---------------------------------|
| 210                                                          | 210                                             | 14                                | 65                               | 23                         | 20                              |
| <a href="#">View File of ICT Tools and resources</a>         |                                                 |                                   |                                  |                            |                                 |
| <a href="#">View File of E-resources and techniques used</a> |                                                 |                                   |                                  |                            |                                 |

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

In JIS College of Engineering, to establish an effective relationship between students and faculty members, a mentoring system has been introduced since its establishment. The primary objective of the mentoring system is to guide the students and monitor their activities in academic, extra-curricular and co-curricular activities. After taking admission at the college, each student is under a mentorship program and it continues up to their final semester. Faculty members of the institute work as mentors to their allotted students. In this continuous process, main objective is to i) improve the academic performance of the students ii) guide them in placement related activities ii) establishing a better faculty-student relationship iv) to make the students disciplined v) counsel their problems vi) maintain a continuous relation with parents by informing them about mentee's performance vii) to reduce the dropout percentage. Every faculty member gets a small group of students from each year after the approval from higher management and at department level. After allocation of mentees, faculty members (mentors) conduct a primary meeting with all mentees to collect basic information regarding them. Mentors also advise them to attend classes regularly (as 75 attendance is mandatory to appear in all examinations), inform them to contact immediately with his/her if the student faces any problem during studies. Usually the mentorship meeting is conducted on a regular basis (once in a month) but a student can communicate with his/her mentor individually at any time. All mentorship meeting information is properly documented. It is the duty of mentors to collect the information regarding their attendance from the LMS portal. Mentors also collect information of their mentee's marks in internal and semester examinations. With the help of a mentorship program, it is possible to identify the slow and advanced learners and to take action accordingly. If any student's attendance and marks are not satisfactory, mentors ask the student the reason for it. In some cases, mentors communicate with their guardians also. If required, mentors counsel the students with presence of Head of the Department and senior faculty members. If any student feels weakness in any subject (s), mentors communicate with the concerned teacher(s) and try to solve the problem. After getting information from the mentor, subject teachers arrange special classes which are very much helpful for slow learners. Concerned head of the departments regularly meet with the faculty members to know the updated status of their mentorship program. Mentors are encouraged to participate in the institutional speaker's corner program to improve their soft skill activities, in various cultural programs, in different sports activities and the annual institutional technical fest where students can develop their technical knowledge. Mentors also encourage students (those who are interested in higher study) to collaborate with them in projects or in paper writing in reputed journals or book chapters. As a result of the mentorship program, significant improvement between the faculty and student relationship is observed due to direct communication between mentors and mentees. Students maintain this good relationship with mentors even after graduation.

| Number of students enrolled in the institution | Number of fulltime teachers | Mentor : Mentee Ratio |
|------------------------------------------------|-----------------------------|-----------------------|
| 2484                                           | 210                         | 1:12                  |

## 2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

| No. of sanctioned positions | No. of filled positions | Vacant positions | Positions filled during the current year | No. of faculty with Ph.D |
|-----------------------------|-------------------------|------------------|------------------------------------------|--------------------------|
| 14                          | 14                      | Nil              | 14                                       | 6                        |

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )

| Year of Award | Name of full time teachers receiving awards from state level, national level, international level | Designation         | Name of the award, fellowship, received from Government or recognized bodies                                                                                                                    |
|---------------|---------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2019          | SWATI SIKDAR                                                                                      | Assistant Professor | Got Best Paper award at International Conference ICNNEE 2019 (Paper Name: A RETROSPECTIVE STUDY ON THE SHIFTING MODEL IN CLINICAL DIAGNOSTICS INTEGRATING DATA SCIENCE WITH MEDICAL TECHNOLOGY) |
| 2019          | SANDIP BAG                                                                                        | Associate Professor | Got Best Paper award at International Conference ICNNEE 2019 (Paper Name: A RETROSPECTIVE STUDY ON THE SHIFTING MODEL IN CLINICAL DIAGNOSTICS INTEGRATING DATA SCIENCE WITH MEDICAL TECHNOLOGY) |
| 2019          | SABYASACHI SEN                                                                                    | Dean                | Honorary member of American Chemical Society                                                                                                                                                    |
| 2019          | KARABI GANGULY                                                                                    | Assistant Professor | Got Best Paper award at ICNNEE 2019 (Paper Name: A RETROSPECTIVE STUDY ON THE SHIFTING MODEL IN CLINICAL DIAGNOSTICS INTEGRATING DATA SCIENCE WITH MEDICAL TECHNOLOGY)                          |
| 2019          | SAYANTI GUHA                                                                                      | Assistant Professor | Got Best Paper award at ICNNEE 2019 (Paper Name: A RETROSPECTIVE STUDY ON THE SHIFTING MODEL IN CLINICAL DIAGNOSTICS INTEGRATING DATA SCIENCE WITH MEDICAL TECHNOLOGY)                          |
| 2019          | KARABI GANGULY                                                                                    | Assistant Professor | Got Best Paper award in I3SET-2K19                                                                                                                                                              |

|                           |                      |                     |                                                                                                                                                                                |
|---------------------------|----------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           |                      |                     | (Paper Name: MOLECULAR IMAGING TECHNOLOGY: A PROMISING FRONTIER OF INTERVENTIONAL RADIOLOGY)                                                                                   |
| 2019                      | RINKI BHOWMICK       | Assistant Professor | Best Paper award in International Conference - ICNNEE 2019 (Paper Name: Graphitic Carbon Nitride (g-C <sub>4</sub> N <sub>3</sub> ): A Potential Nano-capacitor )              |
| 2019                      | RINKI BHOWMICK       | Assistant Professor | Best Paper award in International Conference I3SET-2K19 (Paper Name: Role of electrode in tuning quantum transport properties of Oxygen ended Zigzag Boron Carbide Nanoribbon) |
| 2019                      | DR. PRANATI RAKSHIT  | Professor           | Best Paper award in International Conference I3SET-2K19 (paper- Prediction Of Heart Disease Using Support Vector Machine With Feature Selection Method)                        |
| 2019                      | DR. INDRANATH SARKAR | Associate Professor | Best paper award received in the international conference ICNNEE2K19                                                                                                           |
| <a href="#">View File</a> |                      |                     |                                                                                                                                                                                |

## 2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

| Programme Name | Programme Code | Semester/ year | Last date of the last semester-end/ year-end examination | Date of declaration of results of semester-end/ year- end examination |
|----------------|----------------|----------------|----------------------------------------------------------|-----------------------------------------------------------------------|
| BTech          | ME             | 2nd Semester   | 05/08/2020                                               | 24/08/2020                                                            |
| BTech          | ECE            | 2nd Semester   | 05/08/2020                                               | 24/08/2020                                                            |
| BTech          | EE             | 2nd Semester   | 05/08/2020                                               | 24/08/2020                                                            |
| BTech          | IT             | 2nd Semester   | 05/08/2020                                               | 24/08/2020                                                            |

|                           |            |                     |                   |                   |
|---------------------------|------------|---------------------|-------------------|-------------------|
| <b>BTech</b>              | <b>ME</b>  | <b>2nd Semester</b> | <b>05/08/2020</b> | <b>24/08/2020</b> |
| <b>BTech</b>              | <b>CSE</b> | <b>2nd Semester</b> | <b>05/08/2020</b> | <b>24/08/2020</b> |
| <b>BTech</b>              | <b>BME</b> | <b>2nd Semester</b> | <b>05/08/2020</b> | <b>24/08/2020</b> |
| <a href="#">View File</a> |            |                     |                   |                   |

2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

| Number of complaints or grievances about evaluation | Total number of students appeared in the examination | Percentage  |
|-----------------------------------------------------|------------------------------------------------------|-------------|
| <b>29</b>                                           | <b>2229</b>                                          | <b>1.10</b> |

## 2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

|                                                                                                           |
|-----------------------------------------------------------------------------------------------------------|
| <a href="https://www.jiscollege.ac.in/pdf/jisce_1e.pdf">https://www.jiscollege.ac.in/pdf/jisce_1e.pdf</a> |
|-----------------------------------------------------------------------------------------------------------|

2.6.2 – Pass percentage of students

| Programme Code | Programme Name | Programme Specialization                         | Number of students appeared in the final year examination | Number of students passed in final year examination | Pass Percentage |
|----------------|----------------|--------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------|-----------------|
| <b>ME</b>      | <b>BTech</b>   | <b>Mechanical Engineering</b>                    | <b>92</b>                                                 | <b>87</b>                                           | <b>94.57</b>    |
| <b>IT</b>      | <b>BTech</b>   | <b>Information Technology</b>                    | <b>61</b>                                                 | <b>60</b>                                           | <b>98.36</b>    |
| <b>EE</b>      | <b>BTech</b>   | <b>Electrical Engineering</b>                    | <b>87</b>                                                 | <b>87</b>                                           | <b>100.00</b>   |
| <b>ECE</b>     | <b>BTech</b>   | <b>Electronics and Communication Engineering</b> | <b>129</b>                                                | <b>128</b>                                          | <b>99.22</b>    |
| <b>CSE</b>     | <b>BTech</b>   | <b>Computer Science and Engineering</b>          | <b>129</b>                                                | <b>128</b>                                          | <b>99.22</b>    |
| <b>CE</b>      | <b>BTech</b>   | <b>Civil Engineering</b>                         | <b>106</b>                                                | <b>106</b>                                          | <b>100.00</b>   |
| <b>BME</b>     | <b>BTech</b>   | <b>Bio-Medical Engineering</b>                   | <b>18</b>                                                 | <b>18</b>                                           | <b>100.00</b>   |
| <b>MCSE</b>    | <b>Mtech</b>   | <b>Computer Science and Engineering</b>          | <b>3</b>                                                  | <b>3</b>                                            | <b>100.00</b>   |
| <b>EDPS</b>    | <b>Mtech</b>   | <b>Electrical Devices and Power Systems</b>      | <b>12</b>                                                 | <b>12</b>                                           | <b>100.00</b>   |

[View File](#)

## 2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

[https://www.jiscollege.ac.in/pdf/jisce\\_sss.pdf](https://www.jiscollege.ac.in/pdf/jisce_sss.pdf)

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

**Yes**

Name of the teacher getting seed money

**Dean RD and Team**

[View File](#)

3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

| Type            | Name of the teacher awarded the fellowship | Name of the award                                                                                                                                                                                      | Date of award     | Awarding agency                    |
|-----------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------------------|
| <b>National</b> | <b>Dr. Indranath Sarkar</b>                | <b>Best paper award received in the international conference ICNNEE2K19</b>                                                                                                                            | <b>19/10/2019</b> | <b>ICNNEE Conference Committee</b> |
| <b>National</b> | <b>Swati Sikder</b>                        | <b>Got Best Paper award at International Conference ICNNEE 2019 (Paper Name: A RETROSPECTIVE STUDY ON THE SHIFTING MODEL IN CLINICAL DIAGNOSTICS INTEGRATING DATA SCIENCE WITH MEDICAL TECHNOLOGY)</b> | <b>19/10/2019</b> | <b>ICNNEE Conference Committee</b> |
| <b>National</b> | <b>Dr. Sandip Bag</b>                      | <b>Got Best Paper award at International Conference ICNNEE 2019 (Paper Name: A RETROSPECTIVE STUDY ON THE SHIFTING MODEL</b>                                                                           | <b>19/10/2019</b> | <b>ICNNEE Conference Committee</b> |

|                   |                         |                                                                                                                                                                                              |            |                                  |
|-------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------|
|                   |                         | IN CLINICAL<br>DIAGNOSTICS<br>INTEGRATING<br>DATA SCIENCE<br>WITH MEDICAL<br>TECHNOLOGY)                                                                                                     |            |                                  |
| National          | Swati Sikder            | Got Best<br>Paper award in<br>International<br>Conference<br>I3SET-2K19<br>(Paper Name:<br>MOLECULAR<br>IMAGING<br>TECHNOLOGY: A<br>PROMISING<br>FRONTIER OF<br>INTERVENTIONAL<br>RADIOLOGY) | 14/12/2019 | I3SET<br>Conference<br>Committee |
| International     | Dr.<br>Sabyasachi Sen   | Honorary<br>member of<br>American<br>Chemical<br>Society                                                                                                                                     | 13/11/2019 | American<br>Chemical<br>Society  |
| National          | Dr.Rimi Ghosh           | Fellowship                                                                                                                                                                                   | 19/05/2020 | Fellowship                       |
| National          | Sayanti Guha            | Fellowship                                                                                                                                                                                   | 20/09/2019 | Fellowship                       |
| National          | Madhuchanda<br>Dasgupta | Fellowship                                                                                                                                                                                   | 02/07/2019 | Fellowship                       |
| No file uploaded. |                         |                                                                                                                                                                                              |            |                                  |

### 3.2 – Resource Mobilization for Research

#### 3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

| Nature of the Project | Duration | Name of the funding<br>agency | Total grant<br>sanctioned | Amount received<br>during the year |
|-----------------------|----------|-------------------------------|---------------------------|------------------------------------|
| Major<br>Projects     | 365      | AICTE                         | 5                         | 5                                  |
| Major<br>Projects     | 365      | AICTE                         | 5                         | 5                                  |
| Major<br>Projects     | 1095     | AICTE                         | 7.88                      | 7.88                               |
| Major<br>Projects     | 365      | AICTE                         | 3.18                      | 3.18                               |
| Major<br>Projects     | 365      | AICTE                         | 3                         | 3                                  |
| Minor<br>Projects     | 365      | AICTE                         | 2.81                      | 2.81                               |
| Major<br>Projects     | 365      | AICTE                         | 3                         | 3                                  |
| Major<br>Projects     | 365      | AICTE                         | 3                         | 3                                  |

|                           |      |                                         |       |      |
|---------------------------|------|-----------------------------------------|-------|------|
| Any Other<br>(Specify)    | 1825 | Hash<br>Technologies<br>Private Limited | 58.25 | 5    |
| Major<br>Projects         | 1095 | WBDST                                   | 5.79  | 5.79 |
| <a href="#">View File</a> |      |                                         |       |      |

3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

|   |
|---|
| 9 |
|---|

### 3.3 – Innovation Ecosystem

3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

| Title of workshop/seminar                                                                    | Name of the Dept.                                                              | Date       |
|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------|
| One-week FDP on Innovations - IPR – Startups                                                 | JIS College of Engineering, Institutional Innovation Council                   | 06/03/2020 |
| Workshop on IPR Awareness                                                                    | JIS College of Engineering, Institutional Innovation Council                   | 15/01/2020 |
| Entrepreneurship and Innovation as Career Opportunity                                        | JIS College of Engineering, Institutional Innovation Council                   | 13/08/2019 |
| Workshop on Idea to Innovation                                                               | JIS College of Engineering, Institutional Innovation Council                   | 02/08/2019 |
| Workshop on Startup Business Idea to Innovation                                              | JIS College of Engineering, Institutional Innovation Council                   | 04/05/2020 |
| FDP on -IPR-Startup and Innovation: High level motivational speech for budding entrepreneurs | Innovationm Cell, JIS College of Engineering, Institutional Innovation Council | 29/06/2020 |
| FDP on -IPR-Startup and Innovation: Idea generation                                          | Innovationm Cell, JIS College of Engineering, Institutional Innovation Council | 29/06/2020 |
| FDP on -IPR-Startup and Innovation: Entrepreneurial journey                                  | Innovationm Cell, JIS College of Engineering, Institutional Innovation Council | 30/06/2020 |
| FDP on -IPR-Startup and Innovation: Design Thinking                                          | Innovationm Cell, JIS College of Engineering, Institutional Innovation Council | 02/07/2019 |
| FDP on -IPR-Startup and Innovation: Innovation-Startup                                       | Innovationm Cell, JIS College of Engineering, Institutional Innovation Council | 24/07/2019 |
| FDP on -IPR-Startup and                                                                      | Innovationm Cell, JIS                                                          | 16/06/2020 |

|                                                                              |                                                                               |                   |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------|
| <b>Innovation: Innovation-IPR</b>                                            | <b>College of Engineering, Institutional Innovation Council</b>               |                   |
| <b>Workshop on Innovation: Integrated Hackathon SIH2020</b>                  | <b>JIS College of Engineering, Institutional Innovation Council</b>           | <b>18/07/2019</b> |
| <b>Celebration of International IPR day: A Mock Parliament</b>               | <b>JIS College of Engineering, Institutional Innovation Council</b>           | <b>26/04/2020</b> |
| <b>Modern IT Industry: A Entrepreneurship view</b>                           | <b>JIS College of Engineering, IT Dept., Institutional Innovation Council</b> | <b>07/04/2020</b> |
| <b>IPR Awareness Training on Angular JS Node JS</b>                          | <b>JIS College of Engineering, Institutional Innovation Council</b>           | <b>11/10/2019</b> |
| <b>IPR Awareness Training on Python Programming</b>                          | <b>JIS College of Engineering, Institutional Innovation Council</b>           | <b>16/12/2019</b> |
| <b>IPR Awareness Training Cyber Law and Cyber Security</b>                   | <b>JIS College of Engineering, Institutional Innovation Council</b>           | <b>19/07/2019</b> |
| <b>Entrepreneurship Awareness Camp Under DST-NIMAT Project</b>               | <b>JIS College of Engineering, Institutional Innovation Council</b>           | <b>26/08/2019</b> |
| <b>IPR Awareness Workshop on Electrical Design with Auto CAD 3D Printing</b> | <b>JIS College of Engineering, Institutional Innovation Council</b>           | <b>19/11/2019</b> |
| <b>IPR Awareness Workshop on PLC AUTOMATION</b>                              | <b>JIS College of Engineering, Institutional Innovation Council</b>           | <b>13/12/2019</b> |
| <b>WORKSHOP ON AWARENESS/MENTORING SESSION ON IPR IP MANAGEMENT</b>          | <b>JIS College of Engineering, Institutional Innovation Council</b>           | <b>15/01/2020</b> |
| <a href="#">View File</a>                                                    |                                                                               |                   |

### 3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

| Title of the innovation                                 | Name of Awardee                                   | Awarding Agency                              | Date of award     | Category          |
|---------------------------------------------------------|---------------------------------------------------|----------------------------------------------|-------------------|-------------------|
| <b>ARIIA Ranking</b>                                    | <b>ARIIA</b>                                      | <b>Ministry of Education, Govt. of India</b> | <b>18/08/2020</b> | <b>Academy</b>    |
| <b>Best Innovative Project at Kshitij, IIT Kharagpu</b> | <b>Kshitij, IIT KharagpuKshitij, IIT Kharagpu</b> | <b>IIT Kharagpur</b>                         | <b>17/01/2020</b> | <b>Innovation</b> |
| <b>No file uploaded.</b>                                |                                                   |                                              |                   |                   |

### 3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

| Incubation | Name | Sponsored By | Name of the | Nature of Start- | Date of |
|------------|------|--------------|-------------|------------------|---------|
|------------|------|--------------|-------------|------------------|---------|

| Center                                              |                        |                                                | Start-up                                            | up                        | Commencement      |
|-----------------------------------------------------|------------------------|------------------------------------------------|-----------------------------------------------------|---------------------------|-------------------|
| <b>JIS Innovation and Incubation Center (JISIIC</b> | <b>Innovation Labs</b> | <b>Industry support (ALVIS TYRE PVT. LTD.)</b> | <b>Electric-Environment friendly-Economic Class</b> | <b>Product Innovation</b> | <b>16/08/2019</b> |
| <b>No file uploaded.</b>                            |                        |                                                |                                                     |                           |                   |

### 3.4 – Research Publications and Awards

#### 3.4.1 – Ph. Ds awarded during the year

| Name of the Department                       | Number of PhD's Awarded |
|----------------------------------------------|-------------------------|
| <b>Computer Science Engineering</b>          | <b>1</b>                |
| <b>Electronics Communication Engineering</b> | <b>1</b>                |
| <b>Electrical Engineering</b>                | <b>2</b>                |

#### 3.4.2 – Research Publications in the Journals notified on UGC website during the year

| Type                      | Department                    | Number of Publication | Average Impact Factor (if any) |
|---------------------------|-------------------------------|-----------------------|--------------------------------|
| <b>International</b>      | <b>CSE</b>                    | <b>22</b>             | <b>1.38</b>                    |
| <b>International</b>      | <b>ECE</b>                    | <b>11</b>             | <b>2.07</b>                    |
| <b>International</b>      | <b>IT</b>                     | <b>14</b>             | <b>2.73</b>                    |
| <b>International</b>      | <b>ME</b>                     | <b>17</b>             | <b>2.38</b>                    |
| <b>International</b>      | <b>Physics</b>                | <b>8</b>              | <b>2.83</b>                    |
| <b>International</b>      | <b>Chemistry</b>              | <b>6</b>              | <b>2</b>                       |
| <b>International</b>      | <b>Mathematics</b>            | <b>5</b>              | <b>0.9</b>                     |
| <b>International</b>      | <b>Electrical Engineering</b> | <b>3</b>              | <b>1.5</b>                     |
| <b>International</b>      | <b>Biomedical Engineering</b> | <b>5</b>              | <b>2.1</b>                     |
| <b>International</b>      | <b>Civil Engineering</b>      | <b>2</b>              | <b>1.8</b>                     |
| <a href="#">View File</a> |                               |                       |                                |

#### 3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

| Department                                       | Number of Publication |
|--------------------------------------------------|-----------------------|
| <b>Electrical Engineering</b>                    | <b>1</b>              |
| <b>Chemistry</b>                                 | <b>5</b>              |
| <b>Information Technology</b>                    | <b>4</b>              |
| <b>Mechanical Engineering</b>                    | <b>2</b>              |
| <b>Electronics and Communication Engineering</b> | <b>5</b>              |
| <b>Computer Science Engineering</b>              | <b>17</b>             |
| <b>Biomedical Engineering</b>                    | <b>4</b>              |
| <b>Mathematics</b>                               | <b>6</b>              |

|                           |   |
|---------------------------|---|
| Physics                   | 1 |
| <a href="#">View File</a> |   |

#### 3.4.4 – Patents published/awarded during the year

| Patent Details                                                              | Patent status | Patent Number  | Date of Award |
|-----------------------------------------------------------------------------|---------------|----------------|---------------|
| Smart and Green Dustbin                                                     | Filed         | 201931031450   | 03/08/2019    |
| Smart Cap for Specially Able Person                                         | Filed         | 201931031448   | 03/08/2019    |
| Smart Toilet                                                                | Filed         | 201931031417   | 03/06/2019    |
| Tribrid IoT based Smart Washing Machine                                     | Filed         | 201931031419   | 03/06/2019    |
| Automated Portable Wheelchair                                               | Published     | 201931028279A  | 06/09/2019    |
| Improved BiCycle                                                            | Published     | 201931028485   | 06/09/2019    |
| Helping Wheel Chair                                                         | Filed         | 201931028484   | 15/07/2019    |
| Wood cutting machine having sensor                                          | Published     | 201931031418 A | 06/09/2019    |
| Plastic Brick-an environment friendly solution to green building technology | Filed         | 201931031449   | 03/06/2019    |
| PNEUMATIC MATTRESS                                                          | Filed         | 201931031451   | 03/06/2019    |
| <a href="#">View File</a>                                                   |               |                |               |

3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

| Title of the Paper        | Name of Author | Title of journal     | Year of publication | Citation Index | Institutional affiliation as mentioned in the publication | Number of citations excluding self citation |
|---------------------------|----------------|----------------------|---------------------|----------------|-----------------------------------------------------------|---------------------------------------------|
| <b>Nil</b>                | <b>Nil</b>     | <b>Data uploaded</b> | <b>Nil</b>          | <b>Nil</b>     | <b>Nil</b>                                                | <b>Nil</b>                                  |
| <a href="#">View File</a> |                |                      |                     |                |                                                           |                                             |

#### 3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

| Title of the Paper        | Name of Author | Title of journal     | Year of publication | h-index     | Number of citations excluding self citation | Institutional affiliation as mentioned in the publication |
|---------------------------|----------------|----------------------|---------------------|-------------|---------------------------------------------|-----------------------------------------------------------|
| <b>Null</b>               | <b>Null</b>    | <b>Data uploaded</b> | <b>Null</b>         | <b>Null</b> | <b>Null</b>                                 | <b>Null</b>                                               |
| <a href="#">View File</a> |                |                      |                     |             |                                             |                                                           |

### 3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

| Number of Faculty                  | International | National  | State      | Local      |
|------------------------------------|---------------|-----------|------------|------------|
| <b>Attended/Seminars/Workshops</b> | <b>6</b>      | <b>85</b> | <b>270</b> | <b>Nil</b> |
| <b>Presented papers</b>            | <b>21</b>     | <b>11</b> | <b>8</b>   | <b>Nil</b> |
| <b>Resource persons</b>            | <b>Nil</b>    | <b>4</b>  | <b>2</b>   | <b>1</b>   |
| <a href="#">View File</a>          |               |           |            |            |

### 3.5 – Consultancy

#### 3.5.1 – Revenue generated from Consultancy during the year

| Name of the Consultant(s) department         | Name of consultancy project                         | Consulting/Sponsoring Agency                                                                                                   | Revenue generated (amount in rupees) |
|----------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>Electronics Communication Engineering</b> | <b>Electric-Environment friendly-Economic Class</b> | <b>Eastern Rubber Industries, Factory: Shed No. 8A, Phase-II, Kalyani</b>                                                      | <b>320000</b>                        |
| <b>Mechanical Engineering</b>                | <b>Piezo Tyre'</b>                                  | <b>SH Manufacturing Trading Pvt. Ltd., 43 B 55, Kalyani Industrial Estate, Block D, Kalyani, West Bengal 741235</b>            | <b>345000</b>                        |
| <b>Electrical Engineering</b>                | <b>'SOLAR TOTO'</b>                                 | <b>ALVIS TYRE PVT. LTD., A-12, 13, 14, PHASE -II , KALYANI INDUSTRIAL ESTATE KALYANI WB 741235</b>                             | <b>320000</b>                        |
| <b>Electrical Engineering</b>                | <b>Battery less solar street light</b>              | <b>Nirmala Foundation, 90 Feet Rd, Kandivali, Thakur Complex, Kandivali East, Mumbai, Maharashtra 400101</b>                   | <b>275000</b>                        |
| <b>Civil Engineering</b>                     | <b>Soli Testing</b>                                 | <b>Meghna Construction, Civil and Structural Contractor, B-4/27, Kalyani, PIN-741235 , email: meghnaconstruction@yahoo.com</b> | <b>230000</b>                        |
| <a href="#">View File</a>                    |                                                     |                                                                                                                                |                                      |

#### 3.5.2 – Revenue generated from Corporate Training by the institution during the year

| Name of the Consultant(s) department | Title of the programme     | Agency seeking / training | Revenue generated (amount in rupees) | Number of trainees |
|--------------------------------------|----------------------------|---------------------------|--------------------------------------|--------------------|
| <b>NIPU</b>                          | <b>Training on Digital</b> | <b>NPIU</b>               | <b>290000</b>                        | <b>29</b>          |

No file uploaded.

**3.6 – Extension Activities**

3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

| Title of the activities                                                                                                | Organising unit/agency/<br>collaborating agency        | Number of teachers<br>participated in such<br>activities | Number of students<br>participated in such<br>activities |
|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|
| <b>A Mother is she<br/>who can take the<br/>place of all<br/>others, but whose<br/>place no one else<br/>can take"</b> | <b>Women Cell and<br/>Community Club with<br/>NSS</b>  | <b>6</b>                                                 | <b>5</b>                                                 |
| <b>Republic Day<br/>Celebration</b>                                                                                    | <b>NCC , JIS College<br/>of Engineering</b>            | <b>6</b>                                                 | <b>100</b>                                               |
| <b>Independence Day<br/>Celebration</b>                                                                                | <b>NCC , JIS College<br/>of Engineering</b>            | <b>14</b>                                                | <b>102</b>                                               |
| <b>Yoga Day<br/>Celebration</b>                                                                                        | <b>NCC , JIS College<br/>of Engineering</b>            | <b>5</b>                                                 | <b>58</b>                                                |
| <b>Tree Plantation<br/>Program</b>                                                                                     | <b>NCC , JIS College<br/>of Engineering</b>            | <b>5</b>                                                 | <b>60</b>                                                |
| <b>Vigilance<br/>Awareness Week-</b>                                                                                   | <b>NSS with<br/>Community Club</b>                     | <b>3</b>                                                 | <b>78</b>                                                |
| <b>SHORT-FILM<br/>COMPETITION</b>                                                                                      | <b>Literature Club<br/>with NSS</b>                    | <b>4</b>                                                 | <b>250</b>                                               |
| <b>JISCEX Talk</b>                                                                                                     | <b>Literature Club<br/>in association with<br/>NSS</b> | <b>3</b>                                                 | <b>39</b>                                                |
| <b>Gulmohar" an<br/>evening with the<br/>aroma of Nature</b>                                                           | <b>Environment Club<br/>with NSS</b>                   | <b>5</b>                                                 | <b>80</b>                                                |
| <b>Children Day<br/>Celebration</b>                                                                                    | <b>Community Club<br/>with NSS</b>                     | <b>5</b>                                                 | <b>65</b>                                                |
| <a href="#">View File</a>                                                                                              |                                                        |                                                          |                                                          |

3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

| Name of the activity          | Award/Recognition                   | Awarding Bodies   | Number of students<br>Benefited |
|-------------------------------|-------------------------------------|-------------------|---------------------------------|
| <b>Health and<br/>Hygiene</b> | <b>TSC/IGC 2019 Gold<br/>medal</b>  | <b>TSC/IGC</b>    | <b>150</b>                      |
| <b>Tree Plantation</b>        | <b>NSS- Appreciation<br/>letter</b> | <b>Lions Club</b> | <b>280</b>                      |
| <a href="#">View File</a>     |                                     |                   |                                 |

3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

| Name of the scheme | Organising unit/Agen | Name of the activity | Number of teachers | Number of students |
|--------------------|----------------------|----------------------|--------------------|--------------------|
|--------------------|----------------------|----------------------|--------------------|--------------------|

|                           |                         |            |                                 |                                 |
|---------------------------|-------------------------|------------|---------------------------------|---------------------------------|
|                           | cy/collaborating agency |            | participated in such activities | participated in such activities |
|                           | <b>Data uploaded</b>    | <b>Nil</b> | <b>Nil</b>                      | <b>Nil</b>                      |
| <a href="#">View File</a> |                         |            |                                 |                                 |

### 3.7 – Collaborations

3.7.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

| Nature of activity        | Participant          | Source of financial support | Duration   |
|---------------------------|----------------------|-----------------------------|------------|
| <b>Nil</b>                | <b>Data uploaded</b> | <b>Nil</b>                  | <b>Nil</b> |
| <a href="#">View File</a> |                      |                             |            |

3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

| Nature of linkage | Title of the linkage | Name of the partnering institution/ industry /research lab with contact details | Duration From     | Duration To       | Participant              |
|-------------------|----------------------|---------------------------------------------------------------------------------|-------------------|-------------------|--------------------------|
| <b>Internship</b> | <b>Internship</b>    | <b>Centre For The Sustainable Use Of Natural And Social Resources</b>           | <b>05/08/2019</b> | <b>04/09/2019</b> | <b>Sibaji Dey</b>        |
| <b>Internship</b> | <b>Internship</b>    | <b>Digiarise</b>                                                                | <b>05/08/2019</b> | <b>04/09/2019</b> | <b>Pritam Saha</b>       |
| <b>Internship</b> | <b>Internship</b>    | <b>Identifeye Solutions</b>                                                     | <b>11/12/2019</b> | <b>10/03/2020</b> | <b>SANJU JANA</b>        |
| <b>Internship</b> | <b>Internship</b>    | <b>Leadership Development Association</b>                                       | <b>02/07/2019</b> | <b>01/09/2019</b> | <b>SUBRADEV SARKAR</b>   |
| <b>Internship</b> | <b>Internship</b>    | <b>Pole Techlabs Private Limited</b>                                            | <b>19/08/2019</b> | <b>18/10/2019</b> | <b>Ankita Chatterjee</b> |
| <b>Internship</b> | <b>Internship</b>    | <b>Quasix Solutions Private Limited</b>                                         | <b>03/01/2020</b> | <b>02/07/2020</b> | <b>Dipankar Ghosh</b>    |
| <b>Internship</b> | <b>Internship</b>    | <b>SEOMantra. Pro</b>                                                           | <b>31/08/2019</b> | <b>30/09/2019</b> | <b>Shreya Das</b>        |
| <b>Internship</b> | <b>Internship</b>    | <b>TechGeekers</b>                                                              | <b>22/07/2019</b> | <b>21/09/2019</b> | <b>Papai Ghosh</b>       |
| <b>Internship</b> | <b>Internship</b>    | <b>Travarsa Private Limited</b>                                                 | <b>19/11/2019</b> | <b>18/02/2020</b> | <b>Shreya Das</b>        |
| <b>Internship</b> | <b>Internship</b>    | <b>Youth Empowerment</b>                                                        | <b>11/08/2019</b> | <b>10/09/2019</b> | <b>Sibaji Dey</b>        |

[View File](#)

3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

| Organisation                                           | Date of MoU signed | Purpose/Activities                            | Number of students/teachers participated under MoUs |
|--------------------------------------------------------|--------------------|-----------------------------------------------|-----------------------------------------------------|
| <b>Enterprise Development Institute, Kolkata (EDI)</b> | <b>30/07/2019</b>  | <b>Stratups, Entrepreneurship development</b> | <b>325</b>                                          |
| <a href="#">View File</a>                              |                    |                                               |                                                     |

#### CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

##### 4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

| Budget allocated for infrastructure augmentation | Budget utilized for infrastructure development |
|--------------------------------------------------|------------------------------------------------|
| <b>207.25</b>                                    | <b>196.1</b>                                   |

4.1.2 – Details of augmentation in infrastructure facilities during the year

| Facilities                                                                                      | Existing or Newly Added |
|-------------------------------------------------------------------------------------------------|-------------------------|
| <b>Classrooms with Wi-Fi OR LAN</b>                                                             | <b>Existing</b>         |
| <b>Number of important equipments purchased (Greater than 1-0 lakh) during the current year</b> | <b>Existing</b>         |
| <b>Campus Area</b>                                                                              | <b>Existing</b>         |
| <b>Video Centre</b>                                                                             | <b>Existing</b>         |
| <b>Seminar halls with ICT facilities</b>                                                        | <b>Existing</b>         |
| <b>Classrooms with LCD facilities</b>                                                           | <b>Existing</b>         |
| <b>Seminar Halls</b>                                                                            | <b>Existing</b>         |
| <b>Laboratories</b>                                                                             | <b>Existing</b>         |
| <b>Class rooms</b>                                                                              | <b>Existing</b>         |
| <a href="#">View File</a>                                                                       |                         |

##### 4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

| Name of the ILMS software | Nature of automation (fully or patially) | Version    | Year of automation |
|---------------------------|------------------------------------------|------------|--------------------|
| <b>LibMan TM</b>          | <b>Fully</b>                             | <b>4.6</b> | <b>2004</b>        |

4.2.2 – Library Services

| Library Service Type | Existing    |              | Newly Added |            | Total       |              |
|----------------------|-------------|--------------|-------------|------------|-------------|--------------|
| <b>Text Books</b>    | <b>4370</b> | <b>87015</b> | <b>35</b>   | <b>318</b> | <b>4405</b> | <b>87333</b> |
| <b>Reference</b>     | <b>1850</b> | <b>2000</b>  | <b>27</b>   | <b>45</b>  | <b>1877</b> | <b>2045</b>  |

|                           |             |             |            |            |             |             |
|---------------------------|-------------|-------------|------------|------------|-------------|-------------|
| <b>Books</b>              |             |             |            |            |             |             |
| <b>e-Books</b>            | <b>645</b>  | <b>645</b>  | <b>Nil</b> | <b>Nil</b> | <b>645</b>  | <b>645</b>  |
| <b>Journals</b>           | <b>Nil</b>  | <b>Nil</b>  | <b>Nil</b> | <b>Nil</b> | <b>Nil</b>  | <b>Nil</b>  |
| <b>e-Journals</b>         | <b>274</b>  | <b>274</b>  | <b>Nil</b> | <b>Nil</b> | <b>274</b>  | <b>274</b>  |
| <b>CD &amp; Video</b>     | <b>2324</b> | <b>2900</b> | <b>10</b>  | <b>20</b>  | <b>2334</b> | <b>2920</b> |
| <b>Library Automation</b> | <b>1</b>    | <b>1</b>    | <b>Nil</b> | <b>Nil</b> | <b>1</b>    | <b>1</b>    |
| <a href="#">View File</a> |             |             |            |            |             |             |

4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

| Name of the Teacher           | Name of the Module                                             | Platform on which module is developed                                | Date of launching e-content |
|-------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------|
| <b>Dr. Karabi Ganguly</b>     | <b>Engineering Physiology Anatomy</b>                          | <b>Various platforms like Zoom, Google Meet, othe softwares etc.</b> | <b>17/05/2020</b>           |
| <b>Mr. Uttiya Kar</b>         | <b>Database Management</b>                                     | <b>Various platforms like Zoom, Google Meet, othe softwares etc.</b> | <b>16/05/2020</b>           |
| <b>Dr. Sabyasachi Sen</b>     | <b>Weins Law and Raleygh Jeans Law of Black body radiation</b> | <b>Various platforms like Zoom, Google Meet, othe softwares etc.</b> | <b>21/06/2020</b>           |
| <b>Dr. Debasish Das</b>       | <b>Point Crossing in Railway Engineering</b>                   | <b>Various platforms like Zoom, Google Meet, othe softwares etc.</b> | <b>27/03/2020</b>           |
| <b>Dr. Papun Biswas</b>       | <b>Control System-I</b>                                        | <b>Various platforms like Zoom, Google Meet, othe softwares etc.</b> | <b>06/06/2020</b>           |
| <b>Dr. Sudipta Sahana</b>     | <b>Object Oriented Programming using Java</b>                  | <b>Various platforms like Zoom, Google Meet, othe softwares etc.</b> | <b>31/05/2020</b>           |
| <b>Dr. Biswarup Neogi</b>     | <b>Basic Electronics Engineering</b>                           | <b>Various platforms like Zoom, Google Meet, othe softwares etc.</b> | <b>25/06/2020</b>           |
| <b>Mr. Sumanta Chatterjee</b> | <b>Digital Electronics and Computer Organization</b>           | <b>Various platforms like Zoom, Google Meet, othe softwares etc.</b> | <b>16/06/2020</b>           |
| <b>Mr. Soumyabrata Saha</b>   | <b>Data Structure and Algorithm</b>                            | <b>Various platforms like Zoom, Google Meet, othe</b>                | <b>17/06/2020</b>           |

|                           |                         |                                                               |            |
|---------------------------|-------------------------|---------------------------------------------------------------|------------|
|                           |                         | softwares etc.                                                |            |
| Dr. Sandip Ghosh          | Power Plant Engineering | Various platforms like Zoom, Google Meet, othe softwares etc. | 13/06/2020 |
| <a href="#">View File</a> |                         |                                                               |            |

#### 4.3 – IT Infrastructure

##### 4.3.1 – Technology Upgradation (overall)

| Type         | Total Co<br>mputers | Computer<br>Lab | Internet | Browsing<br>centers | Computer<br>Centers | Office | Departme<br>nts | Available<br>Bandwidt<br>h (MBPS/<br>GBPS) | Others |
|--------------|---------------------|-----------------|----------|---------------------|---------------------|--------|-----------------|--------------------------------------------|--------|
| Existin<br>g | 902                 | 16              | 100      | 16                  | 1                   | 3      | 11              | 100                                        | 0      |
| Added        | 0                   | 0               | 0        | 0                   | 0                   | 0      | 0               | 0                                          | 0      |
| Total        | 902                 | 16              | 100      | 16                  | 1                   | 3      | 11              | 100                                        | 0      |

##### 4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

|                |
|----------------|
| 500 MBPS/ GBPS |
|----------------|

##### 4.3.3 – Facility for e-content

| Name of the e-content development facility | Provide the link of the videos and media centre and recording facility                                                                            |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Digital Studio                             | <a href="https://www.jiscollege.ac.in/naacssr2020/miscellaneous-videos.php">https://www.jiscollege.ac.in/naacssr2020/miscellaneous-videos.php</a> |

#### 4.4 – Maintenance of Campus Infrastructure

##### 4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

| Assigned Budget on<br>academic facilities | Expenditure incurred on<br>maintenance of academic<br>facilities | Assigned budget on<br>physical facilities | Expenditure incurred on<br>maintenance of physical<br>facilities |
|-------------------------------------------|------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------|
| 226.65                                    | 206.83                                                           | 297.8                                     | 262.12                                                           |

##### 4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website)

**1. Maintenance of Physical Facilities:** The physical facilities are maintained by the Institutions engineering section, which comprises competent civil engineer and electrical engineers. The services of plumbers, electricians, and computer analysts are available round the clock in the campus. Electrical engineer is responsible for the uninterrupted power supply and maintenance of equipment. The Administrative Officer with a team of members headed by site engineer monitor the maintenance and cleanliness of the buildings, classrooms, labs, furniture, campus.

**1.1. Maintenance and utilization of Classrooms, Furniture:** Classrooms with furniture, teaching aids are maintained by the respective department staff and attendants and supervised by the respective Head of the Department. The Heads of Departments report to the administration periodically for all the maintenance works. Minor repairs are registered in a maintenance logbook maintained in the office.

**1.2. Electrical Maintenance:** There is an Electrical Team under Maintenance department headed by site

engineer which maintains all electrical properties including DG sets, Power supply System. This team maintains a log of all major equipment. They have a Maintenance Logbook. The team does preventive maintenance and periodical health check as per laid down. 1.3. Maintenance and utilization of Sports and Games Facility The sports equipments, fitness equipments, ground and various courts in Campus are supervised and maintained by the Physical Instructor. Expensive equipments in the fitness centre are maintained through Maintenance Contract. 1.4. Maintenance and Utilisation of Library and Library Resources The library staff is clearly instructed in the care and handling of library documents, particularly during processing, shelving and conveyance of documents. The following steps need to be taken: ? Bound volumes are not to be sorted out from their fore edges, as this process weakens the binding. ? Dust should not be allowed to deposit on the documents because the collection of dust causes staining of documents and promote chemical and biological problems. ? Proper pest management is done to minimize the problems caused by insects. 1.5. Maintenance of Campus Cleanliness Cleaning of the campus areas and hostels is performed daily in the morning before the regular classes begin with the help of the outsourced housekeeping team. Toilets are cleaned thrice daily. The whole campus area is maintained by the housekeeping supervisor who will be reporting the completion of work to the maintenance department. 2. Maintenance of Laboratories: Faculty in charge of a Lab is responsible for maintenance of all the equipment facilities in the Lab. Normally the institute has policy that while buying any equipment for Lab in purchase order itself there is clause that supplier trains the Lab technician and supplies documents and Tools/Spares. The Heads of Departments report to the administration periodically for all the maintenance works. Stock registers, asset registers, logbooks, tools and plant registers are maintained by the respective laboratories to report entries and defects arising for rectification. 3. Maintaining Computers and IT related equipment: System Administrator along with technicians and instructors who are responsible for repair and maintenance of equipment and computers including network related issues and surveillance system.

<https://jiscollge.ac.in/naacssr2020/pdf/sopofmaintenance.pdf>

## CRITERION V – STUDENT SUPPORT AND PROGRESSION

### 5.1 – Student Support

#### 5.1.1 – Scholarships and Financial Support

|                                      | Name/Title of the scheme                                                                                                                                               | Number of students | Amount in Rupees |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------|
| Financial Support from institution   | Tuition Fee Waiver, NPTEL Examination Half Fee Assistance, Half Freeship, Institutional Scholarship Scheme (Category 1), Institutional Scholarship Scheme (Category 2) | 1128               | 14733340         |
| Financial Support from Other Sources |                                                                                                                                                                        |                    |                  |
| a) National                          | NSP –Post Matric Merit cum Means, SVMCM, SC/ST/OBC Scholarship,                                                                                                        | 368                | 12888400         |

|                           |                                                                             |            |            |
|---------------------------|-----------------------------------------------------------------------------|------------|------------|
|                           | <b>District Welfare,<br/>Aikyashree<br/>Scholarship,<br/>Kanyashree -K2</b> |            |            |
| <b>b)International</b>    | <b>Nil</b>                                                                  | <b>Nil</b> | <b>Nil</b> |
| <a href="#">View File</a> |                                                                             |            |            |

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

| Name of the capability enhancement scheme        | Date of implemetation | Number of students enrolled | Agencies involved |
|--------------------------------------------------|-----------------------|-----------------------------|-------------------|
| <b>Mock Interview Preparation</b>                | <b>05/07/2019</b>     | <b>633</b>                  | <b>EDUSPIRE</b>   |
| <b>Pseudo code Training - Technical training</b> | <b>21/08/2019</b>     | <b>603</b>                  | <b>IN-HOUSE</b>   |
| <b>PLC SCADA Training</b>                        | <b>07/01/2020</b>     | <b>35</b>                   | <b>ARDENT</b>     |
| <b>Soft Skill Interview Preparation</b>          | <b>20/01/2020</b>     | <b>567</b>                  | <b>EDUSPIRE</b>   |
| <b>Aptitude, Verbal, Non Verbal Training</b>     | <b>22/01/2020</b>     | <b>1604</b>                 | <b>EDUSPIRE</b>   |
| <b>Revit and total Station Training</b>          | <b>12/02/2020</b>     | <b>43</b>                   | <b>CADD POINT</b> |
| <b>International Day of YOGA Celebration</b>     | <b>21/06/2020</b>     | <b>401</b>                  | <b>IN-HOUSE</b>   |
| <a href="#">View File</a>                        |                       |                             |                   |

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

| Year        | Name of the scheme                                                     | Number of benefited students for competitive examination | Number of benefited students by career counseling activities | Number of students who have passed in the comp. exam | Number of students placed |
|-------------|------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------|---------------------------|
| <b>2020</b> | <b>Session for Mental Strength and Stress Management in daily life</b> | <b>Nil</b>                                               | <b>144</b>                                                   | <b>Nil</b>                                           | <b>571</b>                |
| <b>2020</b> | <b>Career Counselling for Safe Practice in Healthcare</b>              | <b>Nil</b>                                               | <b>55</b>                                                    | <b>Nil</b>                                           | <b>Nil</b>                |
| <b>2020</b> | <b>Career Counseling for</b>                                           | <b>Nil</b>                                               | <b>85</b>                                                    | <b>Nil</b>                                           | <b>Nil</b>                |

|                           |                                                                                             |             |             |             |             |
|---------------------------|---------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|
|                           | <b>Industrial Engineering &amp; Process Automation</b>                                      |             |             |             |             |
| <b>2020</b>               | <b>Career Counseling for Entrepreneurship</b>                                               | <b>65</b>   | <b>Nill</b> | <b>Nill</b> | <b>Nill</b> |
| <b>2020</b>               | <b>Guidance for competitive examinations CAT/GMAT</b>                                       | <b>85</b>   | <b>Nill</b> | <b>3</b>    | <b>Nill</b> |
| <b>2019</b>               | <b>Guidance for competitive examinations GATE</b>                                           | <b>120</b>  | <b>Nill</b> | <b>3</b>    | <b>Nill</b> |
| <b>2019</b>               | <b>Guidance for competitive examinations GRE</b>                                            | <b>30</b>   | <b>Nill</b> | <b>2</b>    | <b>Nill</b> |
| <b>2019</b>               | <b>Guidance for competitive examinations IES, UPSC, WEST BENGAL CIVIL SERVICE, RAILWAYS</b> | <b>220</b>  | <b>Nill</b> | <b>Nill</b> | <b>Nill</b> |
| <b>2019</b>               | <b>Career Counseling for exposures in Software Industries</b>                               | <b>Nill</b> | <b>155</b>  | <b>Nill</b> | <b>Nill</b> |
| <b>2019</b>               | <b>Career Counseling for Machine Learning and Data Science</b>                              | <b>Nill</b> | <b>180</b>  | <b>Nill</b> | <b>Nill</b> |
| <a href="#">View File</a> |                                                                                             |             |             |             |             |

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

| Total grievances received | Number of grievances redressed | Avg. number of days for grievance redressal |
|---------------------------|--------------------------------|---------------------------------------------|
| <b>4</b>                  | <b>4</b>                       | <b>5</b>                                    |

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

| On campus                     |                                 |                           | Off campus                          |                                 |                           |
|-------------------------------|---------------------------------|---------------------------|-------------------------------------|---------------------------------|---------------------------|
| Name of organizations visited | Number of students participated | Number of students placed | Name of organizations visited       | Number of students participated | Number of students placed |
| <b>BYJUS</b>                  | <b>286</b>                      | <b>15</b>                 | <b>Narayan Industries Pvt. Ltd.</b> | <b>11</b>                       | <b>3</b>                  |
| <a href="#">View File</a>     |                                 |                           |                                     |                                 |                           |

#### 5.2.2 – Student progression to higher education in percentage during the year

| Year                      | Number of students enrolling into higher education | Programme graduated from | Department graduated from                        | Name of institution joined           | Name of programme admitted to |
|---------------------------|----------------------------------------------------|--------------------------|--------------------------------------------------|--------------------------------------|-------------------------------|
| <b>2020</b>               | <b>1</b>                                           | <b>B. Tech</b>           | <b>Computer Science and Engineering</b>          | <b>IIT Bombay</b>                    | <b>M Tech</b>                 |
| <b>2020</b>               | <b>1</b>                                           | <b>B. Tech</b>           | <b>Computer Science and Engineering</b>          | <b>ISM, Dhanbad</b>                  | <b>MBA</b>                    |
| <b>2020</b>               | <b>1</b>                                           | <b>B. Tech</b>           | <b>Mechanical Engineering</b>                    | <b>MAKAUT</b>                        | <b>MBA</b>                    |
| <b>2020</b>               | <b>1</b>                                           | <b>B. Tech</b>           | <b>Computer Science and Engineering</b>          | <b>JISIASR</b>                       | <b>M Tech (Data Science)</b>  |
| <b>2020</b>               | <b>3</b>                                           | <b>B. Tech</b>           | <b>Computer Science and Engineering</b>          | <b>MAKAUT</b>                        | <b>M Tech (CSE)</b>           |
| <b>2020</b>               | <b>1</b>                                           | <b>B. Tech</b>           | <b>Electronics and Communication Engineering</b> | <b>MAKAUT</b>                        | <b>M. Tech (MVD)</b>          |
| <b>2020</b>               | <b>1</b>                                           | <b>B. Tech</b>           | <b>Information Technology</b>                    | <b>Tripura University</b>            | <b>M Tech</b>                 |
| <b>2020</b>               | <b>1</b>                                           | <b>B. Tech</b>           | <b>Mechanical Engineering</b>                    | <b>Symbiosis International, Pune</b> | <b>MBA</b>                    |
| <b>2020</b>               | <b>2</b>                                           | <b>B. Tech</b>           | <b>Electrical Engineering</b>                    | <b>Tripura University</b>            | <b>MBA</b>                    |
| <b>2020</b>               | <b>8</b>                                           | <b>B. Tech</b>           | <b>Information Technology</b>                    | <b>MAKAUT</b>                        | <b>M.Tech(IT)</b>             |
| <a href="#">View File</a> |                                                    |                          |                                                  |                                      |                               |

#### 5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

| Items       | Number of students selected/ qualifying |
|-------------|-----------------------------------------|
| <b>GATE</b> | <b>3</b>                                |

|                           |           |
|---------------------------|-----------|
| <b>Any Other</b>          | <b>13</b> |
| <a href="#">View File</a> |           |

#### 5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

| Activity                                                        | Level                | Number of Participants |
|-----------------------------------------------------------------|----------------------|------------------------|
| <b>JISCEX Talk: Kichu Kotha Kichu Golpo</b>                     | <b>Institutional</b> | <b>30</b>              |
| <b>Amar Rabindranath</b>                                        | <b>Institutional</b> | <b>45</b>              |
| <b>Article Writing Competition</b>                              | <b>Institutional</b> | <b>25</b>              |
| <b>Short-film Competition</b>                                   | <b>Institutional</b> | <b>50</b>              |
| <b>Poetry Competition</b>                                       | <b>Institutional</b> | <b>42</b>              |
| <b>Essay Writing Competition</b>                                | <b>Institutional</b> | <b>35</b>              |
| <b>A Poetic Endeavour titled Come, Let's Talk About Love...</b> | <b>Institutional</b> | <b>14</b>              |
| <b>Lions Club Football Tournament</b>                           | <b>Institutional</b> | <b>140</b>             |
| <a href="#">View File</a>                                       |                      |                        |

### 5.3 – Student Participation and Activities

#### 5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

| Year        | Name of the award/medal                                  | National/ Internaional | Number of awards for Sports | Number of awards for Cultural | Student ID number     | Name of the student      |
|-------------|----------------------------------------------------------|------------------------|-----------------------------|-------------------------------|-----------------------|--------------------------|
| <b>2020</b> | <b>Sardar Jodh Singh Memorial Challengers Tournament</b> | <b>National</b>        | <b>1</b>                    | <b>Nil</b>                    | <b>JIS/2018 /0208</b> | <b>Suvabeed Laha</b>     |
| <b>2020</b> | <b>Reunion Cup Cricket Tournament</b>                    | <b>National</b>        | <b>1</b>                    | <b>Nil</b>                    | <b>JIS/2018 /0208</b> | <b>Suvabeed Laha</b>     |
| <b>2019</b> | <b>Essay Writing Competition</b>                         | <b>National</b>        | <b>Nil</b>                  | <b>1</b>                      | <b>JIS/2018 /0332</b> | <b>Deb Sekhar Roy</b>    |
| <b>2019</b> | <b>Challengers Cup Football Tournament</b>               | <b>National</b>        | <b>1</b>                    | <b>Nil</b>                    | <b>JIS/2016 /0791</b> | <b>Ritwick Mukherjee</b> |
| <b>2019</b> | <b>Lions Club Football Tournament</b>                    | <b>National</b>        | <b>1</b>                    | <b>Nil</b>                    | <b>JIS/2016 /0791</b> | <b>Ritwick Mukherjee</b> |
| <b>2019</b> | <b>Rampage 2K19 Football</b>                             | <b>National</b>        | <b>1</b>                    | <b>Nil</b>                    | <b>JIS/2016 /0791</b> | <b>Ritwick Mukherjee</b> |

|                           | Tournament                  |          |     |   |               |                    |
|---------------------------|-----------------------------|----------|-----|---|---------------|--------------------|
| 2020                      | Poetry Competition          | National | Nil | 1 | JIS/2018/0343 | Debojyoti Senguota |
| 2020                      | Short-Film Competition      | National | Nil | 1 | JIS/2018/0332 | Debojyoti Senguota |
| 2020                      | Article Writing Competition | National | Nil | 1 | JIS/2018/0343 | Deb Sekhar Roy     |
| <a href="#">View File</a> |                             |          |     |   |               |                    |

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Student Council fosters students' leadership quality and administrative ability to impel their zeal to create masterly and exemplary personalities. The institutional ingenious students are selected as the executive members of the Student Council which also nominates student representatives in Academic Council, IQAC and Class Review Committee. Students Council: Chairman: Prof. (Dr.) Malay R. Dave, Principal Faculty Advisor: Prof. (Dr.) Prasanta Kumar Bardhan, Dean-Students Affair President: Ms. Ankita Senchoudhury, CSE 2nd Year Vice President: Ms. Tiyaisha Patra, EE 2nd Year General Secretary: Mr. Nilanjan Bhattacharjee, ECE 2nd Year Four distinct domains of Student Council are A. Academic B. Administrative C. Extracurricular and D. Sports. A. Academic: As nominated by Dean- Students Affair, either President or Vice-president becomes student representative in Academic Council and IQAC. Student members in IQAC express views and propel the quality policies formulated and adapted by the institution among the student fraternity. Class Review Committee constituted by student representatives to assist institution towards academic plan implementation and progress of every course. Students in the Library Committee provide their opinion in the procurement of textbooks, journals and other learning materials. NPTEL Local Chapter e-Learning Centre with active students from each department drives the activities under the flagship of SWAYAM NPTEL, INTERNSHALA and attracts other unaware students. The Student Branch of Computer Society of India actively organizes various programs to reach higher cognitive levels and to enlighten their peers. The Student Branch of IEI leads, organizes programs to bring benefit to the students and increase their confidence and provide a didactic experience. IEEE Student Branch vibrantly organizes various technical events to edify students. B. Administrative Students are active at the Anti-ragging Committee, Mentoring for Ragging Prevention Anti-ragging Squad to prohibit ragging in campus and Hostel. In Hostel Canteen Management Committee, hostellers are involved in every aspect related to smooth run of hostels, canteens through various internal working committees. Women Cell aims to enlighten the girl students and employees about their legal right and to strive towards the empowerment of the women. Girl students are important stake and committee members of this Cell. C. Extracurricular Under the council specific clubs are being constituted. Each club has an individual working committee of students. In Science Club the students transmit the recent developments in Science and Technology over the world. Computer Society Club provides potential resources for assisting learners and by their peers share recent breakthroughs. Engineering Modeling Club guides outstanding students in their creative engineering model design. Community Connect Club with active involvement of students across teams serves the society whenever needed. Photography and Trekking Club triggers students to capture the unseen and explore the unknown. In the Environmental Educational Club students make college campus green and pollution free. Art and Literary Society and Music

Club foster and nurture the creative spirit of the students. All Clubs persuade students' extracurricular potentiality. D. Sports Council is formed by the student members along with faculty mentors in coordination with the Student Sports Convener Secretary and performs various sports activities.

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Yes, the Alumni Association of JIS College of Engineering is registered under the West Bengal Societies Registration Act, 1961 bearing the number S/2L/707. The Alumni Association of JIS College of Engineering organizes regular basis ALUMNI MEET a programme to facilitate, consolidate and coordinate Alumni Activities at JIS College of Engineering. The planned objective was to interact with the alumni, planning different passed out batches, database updating of the alumni association, Taking Alumni Feedback etc. was conducted successfully.

5.4.2 – No. of registered Alumni:

6680

5.4.3 – Alumni contribution during the year (in Rupees) :

276000

5.4.4 – Meetings/activities organized by Alumni Association :

JISCE Alumni Meet was held at the college premises on 18th Jan'20 by the Alumni Association of JIS College of Engineering. A total of 307 alumnus graced the meet ranging from 2004 to 2018 graduates. Many of them came with their spouse children. The objective of the alumni meet was to foster a sense of community among alumni and supporting a sense of connectedness back to the institution. The program started with the welcome address by Dr. Malay R Dave, Principal JISCE. R S Prasanna, famous Bollywood director was the guest of the program and he addressed the crowd. Dr. P.K. Bardhan Dean Student Affairs addressed the alumni and shared his experience about dealing the students from 2004 to current graduates. Mr. Raja Roy Chowdhury (2007) - President Mr. Sourav Chakraborty (2007) - General Secretary of the Alumni Association of JISCE addressed the alumni and briefed them with the aim of the association and subsequent activities to be executed in the upcoming times. One-minute silence was marked in the condolence of the alumni who have left us for the heavenly abode. Alumni from the first batch were called upon the stage to share their memories down the lane. The current students as honor to their seniors showcased an excellent dance and singing performance. The crowd cheered them a lot, even the alumni took part with them followed by a small surprise documentary video to recreate golden old days. Group photograph was taken in front of the main staircase to give a nostalgic touch. At the lunch, great bonhomie was observed everywhere with old students reviving their old memories with their batch mates, seniors and juniors. Many of the current students were also seen interacting with their graduated seniors and learning from their experiences. In all, the ambience was electric with people seen chatting and enjoying in groups. After lunch, Dr. Sila Singh Ghosh, Registrar JISCE interacted with the alumni and shared the journey of JISCE from 2004 to till date. She informed the alumni about the various avenues through which they can easily connect and work with JISCE in the areas of RD. Alumni were introduced to Flipped Learning pedagogy were shown around the digital studios. The alumni revived their old memories by visiting their old classrooms talking to the senior teachers of their time. It was like a dreamy fairytale scenario where the old and the new were amalgamating. Vote of Thanks was delivered by Kavya Jaiswal (MBA 2017), Joint Secretary Alumni Association of JISCE. The smiles,

hugs and togetherness the meet witnessed shows that alumni meet is not just an assemblage of old students, but a wonderful coming together of people from different walks of life to reminisce the great moments that they spent with their friends in the good old days.

## **CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT**

### **6.1 – Institutional Vision and Leadership**

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

**Practice-1: Decentralized Purchase Committee** Purchase Committee in JISCE is a group of designated staff established for independent review and evaluation of purchasing documentation whose main objective is to recommend the most appropriate supplier or service provider based on price, quality, stock availability, references, credentials, etc. The Institutional Purchase Committee is managed by the administrative officer who has the responsibility for the successful outcome of required purchase activities, under the guidance of the Principal. Objectives: i. To collect and analyze the requisitions placed by departmental purchase committees. ii. To prepare the annual procurement plan of the institution. iii. To facilitate the management to allocate the required fund. iv. To provide support to the departmental HoDs/Lab In-charge/Faculty members for procurement of goods/services in an efficient, economic, and transparent manner. v. To ensure that equipment/accessories are procured through the standard procedure in major minor purchases of the institution. Institutional Purchase Committee is comprised of the following members: i. Principal ii. Deans iii. Registrar (Nominated by Management) iv. Administrative Officer v. HoD/ Faculty In-charge of Dept. concerned vi. Representative from Accounts vii. Representative from Store The Librarian can propose the purchases of books and periodicals for the Institutional Library within the sanctioned Budget Grant, on the recommendation of the HoDs of Departments concerned. Stationary is supplied generally by the Institution for which the Head of the Department sends an indent to the Institution's Store through the Principal. Heads of the Depts. exercise their flexibility in choosing the vendors who deliver the required quantity and quality of any requisition. **Case-2: Decentralized Recruitment System** To reach a broad array of excellent and diverse applicants, the institute has implemented active recruitment strategies, where the department plays a major role. Successful hiring often depends not only on short-term recruitment strategies but also on long-term strategies for building and developing a diverse professional network that can help future recruiting efforts. Departments develop and pursue an active recruitment plan by establishing major criteria for evaluating candidates, well in advance of the application deadline. This is a best practice for reducing biases in evaluating candidates throughout the process, including selecting a shortlist of candidates, arriving at the list of candidates for interview. Short-listed candidates at the departmental level are proposed to the Principal for campus interviews. It is the department as a whole that recommends the appointment to the Principal and is responsible for the quality of the faculty, and the new colleague is responsible for the department as a whole. Prior to inviting candidates to campus, departments prepare and forward the proposed list of candidates for interview. Deans review the candidates and alternates and then respond to the Department Chair with questions/comments and/or approval to invite candidates to campus. Candidates for Assistant Professor positions or Professors are interviewed by the appropriate Deans along with the Department Chair also present. As soon as the candidate has accepted the offer, the department communicates with all candidates, thanking them for their interest and informing them that the search has concluded.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

## 6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

| Strategy Type                                              | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Admission of Students                                      | The Institute has a well-organized and transparent admission system. All the admissions are based on merit in accordance with the rank obtained in the WBJEE or rank obtained in all India level entrance examinations JEE (Main). There has been a betterment in the admission regarding the quality of students.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Industry Interaction / Collaboration                       | Industry Institute Interaction is being established at the institution for quite a long time which has further improved. Institute has interaction and collaboration with reputed research organizations, industries, and institutions in India and abroad. It has more than 35 MOUs and has several interdisciplinary and multidisciplinary projects in collaboration with other reputed industries and organizations. The Institute student and faculty exchange programs in collaboration with Indian and Foreign Universities/Institutions.                                                                                                                                                                                                                                                                                       |
| Human Resource Management                                  | Delegations of power are improved through accurate identification of key responsibility areas at different levels like Principal, Registrar, Deans, Controller of Examination, HODs. Participatory Management has been more pronounced through the active functioning of various non-statutory committees and subcommittees for various functional activities comprising representatives from teachers, nonteaching staff, and students. It improved the involvement of staff in organizing different programmes of the college. The performance appraisal system is fully digitized through e-governance and best performers are encouraged through awards like 'JIS-Samman' and monetary incentives. It creates a positive competition among faculty members towards self-improvement leading to better human resource development. |
| Library, ICT and Physical Infrastructure / Instrumentation | Institute Central Library has nearly 89300 books and 363 books were added during the 2019-2020 period with                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

renewal of existing eBooks and e-journals. Augmented the LED/LCD Projectors, provided a state-of-the-art video conferencing facility, increased the capacity of the Wi-Fi facility from 50 Mbps to 100 Mbps. More improvements have been done to the effective use of Digital Library, Spoken Tutorial from IIT-Bombay, QEEE Program, and learning from NPTEL MOOCs courses.

#### Curriculum Development

The curriculum structure and syllabus for all programs are formed under the Board of Studies (BOS) which includes reputed academicians and industry experts. A regular assessment of the curriculum is done through feedback from the students, alumni, subject experts, and employers. The suggestions received are considered for inclusion in the curriculum or syllabus in each revision made in the interval of 3 years. Care is taken to ensure adherence to norms and guidelines prescribed the AICTE and UGC like project-based learning, modern elective papers as well as topics relevant to competitive exams like GATE, IES, CAT, etc

#### Teaching and Learning

The outcome-Based Education (OBE) system is practiced. All the faculties are trained in the contemporary as well as innovative methods of teaching and encouraged to attend various programs on modern pedagogy. An advanced digital teaching-learning process called Flipped Learning is being successfully practiced for the last 3 which is primarily based on a continuous evaluation system. In flipped learning the less cognitive tasks like remembering and understanding are done at home and complex cognitive tasks like applying, analyzing, evaluating, and creating is done at the classroom. The group learning space is indulged to enhance communication skills.

#### Examination and Evaluation

The Controller of Examination organizes the Continuous Internal Evaluation Tests, the Semester End Examination, and the evaluation of the answer scripts. Steps are taken to ensure that the question papers conform to the standards of Bloom's Taxonomy. The E-Governance in examination system has pushed it one step ahead of traditional systems. The entire evaluation process is digitized and

teachers can evaluate the exam papers online anytime anywhere. The results of the semester-end examinations are published within 30 days from the date of completion of the examinations. Supplementary examinations are conducted with the regular semester examination system.

#### Research and Development

The institution provides extensive opportunities to the faculty and students for research and development. It has nurtured the centers of excellence, instrumentation center, high computing infrastructure exclusively for research and development. The vibrant research and development activity in the college has resulted in receiving grants from organizations like DST, AICTE, UGC, etc. and consultancies from a few industries. Faculties are primarily involved in research projects that are beneficial to society. Financial help is provided to faculties by sponsoring registration fees for professional body memberships and towards accepted papers published in national and international Conferences.

### 6.2.2 – Implementation of e-governance in areas of operations:

| E-governance area        | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Planning and Development | The IQAC is responsible for all planning and development of the institute. Apart from the internal meetings it receives vital inputs from feedback committees to engage in a continuous evaluation and developmental framework. The plans made through IQAC are validated by the Academic Council and Board of Governors through e-governance portals which help in effective documentation regarding policy making and effective implementation. The important resolutions from all key meetings are circulated through the institutional website. |
| Administration           | The administration of office dealing with faculty, staff, and students are controlled through dedicated e-governance portal which plays a key role in monitoring daily attendance, leave approvals at various level and all associated documentation regarding the up-gradation of faculties and staffs. It also deals with student information and relevant database                                                                                                                                                                               |

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               | management for processing various certificates issued to students on account of varying needs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Finance and Accounts          | Salaries of teaching and non-teaching staff are processed through dedicated e-governance modules and all remittances are online. Finance modules are well equipped to take care of automatic tax deductions as per government rules. Separate heads are present to include financial support and related expenditure for faculty and staff development and training issues. All purchases leading to accounts are digitized through a variety of modules under the e-governance portal which helps to perfectly organize periodic financial audits.                                                                                                                                                               |
| Student Admission and Support | The admission of students is based on online data furnished by the WBJEE admissions committee. All the students allotted to the college furnish admission data in the online application form. A dedicated e-governance portal integrates the entrance board with institutional credentials for processing a transparent and professional admission process. A separate e-governance portal named LMS provides digital support to students in terms of lecture videos of each and every class along with various assignments to support continuous evaluation. Students can also access their class attendance and all digital content for effective learning, especially during pandemics.                       |
| Examination                   | Mindlogicx is a dedicated e-governance portal that has fully digitized the examinations and evaluation for the last 2 years. The portal is improved over time for a better user interface. Examinations forms are filled online and admit card is also generated by students through e-governance portal where attendance is approved by concerned HODs. Internal and semester exam results are published through the college website to students and parents under password control. Results are also analyzed to study the growth of students over past years through the e-governance portal. It is being planned to integrate the system with CO-PO assessment in support of ongoing outcome-based education. |

**6.3 – Faculty Empowerment Strategies**

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

| Year        | Name of Teacher                      | Name of conference/<br>workshop attended<br>for which financial<br>support provided                                                                    | Name of the<br>professional body for<br>which membership<br>fee is provided | Amount of support |
|-------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------|
| <b>Nil</b>  | <b>Mr. Tanmoy<br/>Dutta</b>          | <b>International<br/>Conference On<br/>Nanotechnology<br/>Nano-materials<br/>For Energy And<br/>Environment<br/>(ICNNEE 2019)</b>                      | <b>NA</b>                                                                   | <b>3000</b>       |
| <b>2019</b> | <b>Ms. Ananya<br/>Barman</b>         | <b>International<br/>Conference On<br/>Nanotechnology<br/>Nano-materials<br/>For Energy And<br/>Environment<br/>(ICNNEE 2019)</b>                      | <b>NA</b>                                                                   | <b>3000</b>       |
| <b>2019</b> | <b>Mrs. Sonali<br/>Bhattacharyya</b> | <b>International<br/>Conference on<br/>Research in<br/>Intelligent and<br/>Computing in<br/>Engineering<br/>(RICE-2019)</b>                            | <b>NA</b>                                                                   | <b>5000</b>       |
| <b>2019</b> | <b>Dr. Indranath<br/>Sarkar</b>      | <b>International<br/>Conference on<br/>Research in<br/>Intelligent and<br/>Computing in<br/>Engineering<br/>(RICE-2019)</b>                            | <b>NA</b>                                                                   | <b>5000</b>       |
| <b>2019</b> | <b>Dr. Sandip<br/>Bag</b>            | <b>International<br/>Conference on<br/>Industry<br/>Interactive<br/>Innovations in<br/>Science,<br/>Engineering and<br/>Technology<br/>(I3SET2K19)</b> | <b>NA</b>                                                                   | <b>3000</b>       |
| <b>2019</b> | <b>Dr. Dharmpal<br/>Singh</b>        | <b>International<br/>Conference on<br/>Industry<br/>Interactive<br/>Innovations in<br/>Science,<br/>Engineering and<br/>Technology<br/>(I3SET2K19)</b> | <b>NA</b>                                                                   | <b>3000</b>       |
| <b>2019</b> | <b>Ms. Swati</b>                     | <b>International</b>                                                                                                                                   | <b>NA</b>                                                                   | <b>7000</b>       |

|                           |                                 |                                                                                                                                                          |                                                |             |
|---------------------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------|
|                           | <b>Sikdar</b>                   | <b>conference on<br/>Advancements In<br/>Biomedical<br/>Instrumentation<br/>And Its<br/>Application In<br/>Healthcare For<br/>Benefit Of<br/>Mankind</b> |                                                |             |
| <b>2019</b>               | <b>Dr. Bikramjit<br/>Sarkar</b> | <b>1st<br/>International<br/>Conference on<br/>Innovation in<br/>Modern Science<br/>and Technology<br/>(ICIMSAT-2019)</b>                                | <b>NA</b>                                      | <b>7000</b> |
| <b>2019</b>               | <b>Dr. Sandip<br/>Ghosh</b>     | <b>2nd<br/>International<br/>Conference on<br/>Mechanical<br/>Materials and<br/>Renewable<br/>Energy (ICMMRE<br/>- 2019)</b>                             | <b>Society of<br/>Automotive<br/>Engineers</b> | <b>8600</b> |
| <b>2019</b>               | <b>Dr.<br/>Sabyasachi Sen</b>   | <b>International<br/>Conference on<br/>Industry<br/>Interactive<br/>Innovations in<br/>Science,<br/>Engineering and<br/>Technology<br/>(I3SET2K19)</b>   | <b>NA</b>                                      | <b>3000</b> |
| <a href="#">View File</a> |                                 |                                                                                                                                                          |                                                |             |

6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

| <b>Year</b> | <b>Title of the<br/>professional<br/>development<br/>programme<br/>organised for<br/>teaching staff</b> | <b>Title of the<br/>administrative<br/>training<br/>programme<br/>organised for<br/>non-teaching<br/>staff</b> | <b>From date</b>  | <b>To Date</b>    | <b>Number of<br/>participants<br/>(Teaching<br/>staff)</b> | <b>Number of<br/>participants<br/>(non-teaching<br/>staff)</b> |
|-------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------|-------------------|------------------------------------------------------------|----------------------------------------------------------------|
| <b>2019</b> | <b>Faculty<br/>Staff<br/>training<br/>programme<br/>on<br/>Continuous<br/>Evaluation<br/>Process</b>    | <b>Faculty<br/>Staff<br/>training<br/>programme<br/>on<br/>Continuous<br/>Evaluation<br/>Process</b>           | <b>01/07/2019</b> | <b>03/07/2019</b> | <b>125</b>                                                 | <b>25</b>                                                      |
| <b>2019</b> | <b>Profession<br/>Developmen<br/>t on Funda</b>                                                         | <b>Profession<br/>Developmen<br/>t on Funda</b>                                                                | <b>08/07/2019</b> | <b>10/07/2019</b> | <b>12</b>                                                  | <b>5</b>                                                       |

|      |                                                                                                                    |                                                                                                                    |            |            |     |    |
|------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|------------|------------|-----|----|
|      | mentals Research trends in Advanced welding, Organized By ME Dept., JISCE                                          | mentals Research trends in Advanced welding, Organized By ME Dept., JISCE                                          |            |            |     |    |
| 2019 | Nil                                                                                                                | Staff Training on Admission management system                                                                      | 11/07/2019 | 13/07/2019 | Nil | 28 |
| 2019 | Administrative Training programme on Learning Management System (LMS), Organized By EE Dept., JISCE                | Administrative Training programme on Learning Management System (LMS), Organized By EE Dept., JISCE                | 15/07/2019 | 19/07/2019 | 18  | 4  |
| 2019 | Staff Training Program on Fire extinguisher handling tips, JISCE                                                   | Staff Training Program on Fire extinguisher handling tips, JISCE                                                   | 12/08/2019 | 14/08/2019 | 25  | 12 |
| 2019 | Administrative Training programme on Institutional Learning Management System (LMS), Organized By CSE Dept., JISCE | Administrative Training programme on Institutional Learning Management System (LMS), Organized By CSE Dept., JISCE | 19/08/2019 | 21/08/2019 | 22  | 4  |
| 2019 | Training Program on Creatrix portal, EE, JISCE                                                                     | Training Program on Creatrix portal, EE, JISCE                                                                     | 21/08/2019 | 23/08/2019 | 13  | 4  |

|                           |                                                                                                                        |                                                                                                                        |            |            |    |     |
|---------------------------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|------------|------------|----|-----|
| 2019                      | AICTE sponsored program on "Environmental Crisis and Sustainable Development", Department of Chemistry, JISCE, Kalyani | AICTE sponsored program on "Environmental Crisis and Sustainable Development", Department of Chemistry, JISCE, Kalyani | 02/09/2019 | 07/09/2019 | 34 | 4   |
| 2019                      | Professional Development Program on Automation Robotics, ECE, JISCE                                                    | Professional Development Program on Automation Robotics, ECE, JISCE                                                    | 24/09/2019 | 27/09/2019 | 16 | 4   |
| 2019                      | Professional Development on Site Organisation in Civil Engineering Industry, CE, JISCE                                 | Nil                                                                                                                    | 12/11/2019 | 18/11/2019 | 8  | Nil |
| <a href="#">View File</a> |                                                                                                                        |                                                                                                                        |            |            |    |     |

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

| Title of the professional development programme                                                                         | Number of teachers who attended | From Date  | To date    | Duration |
|-------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------|------------|----------|
| FDP on Recent Trends in Cyber Security Blockchain                                                                       | 1                               | 29/04/2020 | 02/05/2020 | 4        |
| International Workshop on Global Challenges and Opportunities in Remote Instruction with Alamo Colleges District, JISCE | 45                              | 27/04/2020 | 27/04/2020 | 1        |
| Faculty Orientation Programme                                                                                           | 10                              | 03/02/2020 | 07/02/2020 | 5        |

|                                                                                                                                                        |     |            |            |    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|------------|----|
| Faculty Development Programme on Flipped Learning                                                                                                      | 132 | 04/07/2019 | 06/07/2019 | 3  |
| Faculty Orientation Programme                                                                                                                          | 12  | 05/08/2019 | 09/08/2019 | 5  |
| Refresher Course on Avant Grade theoretical Modelling and state of Art Experimental Techniques in Nano Electronics Devices in Nano Electronics Devices | 32  | 10/12/2019 | 20/12/2019 | 10 |
| AICTE sponsored STTP on Environmental Crisis and Sustainable Development                                                                               | 21  | 02/09/2019 | 07/09/2019 | 6  |
| UGC Sponsored Orientation Program                                                                                                                      | 1   | 18/11/2019 | 07/12/2019 | 18 |
| Five Day Faculty Development Program on Data Science and Big Data Analytics                                                                            | 1   | 13/01/2020 | 17/01/2020 | 5  |
| AICTE Sponsored Short Term Training Program (STTP) on Industrial Automation                                                                            | 18  | 20/01/2020 | 27/01/2020 | 7  |
| <a href="#">View File</a>                                                                                                                              |     |            |            |    |

6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

| Teaching  |           | Non-teaching |           |
|-----------|-----------|--------------|-----------|
| Permanent | Full Time | Permanent    | Full Time |
| 14        | 14        | 5            | 5         |

6.3.5 – Welfare schemes for

| Teaching           | Non-teaching            | Students           |
|--------------------|-------------------------|--------------------|
| Medical Facility , | Medical Facility, Group | MOOCS platform for |

|                                                                  |                                                            |                                                                                                                                   |
|------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Group Insurance, Waving of Tuition fees for wards, Personal Loan | Insurance, Waving of Tuition fees for wards, Personal Loan | digital contents, class notes, continuous evaluation, Sharing of Pre-Recorded Class Lectures, Sharing recording of online classes |
|------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|

#### 6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

JIS College of Engineering conducts both independent external audit (statutory audit) as well as internal audit. JIS College of Engineering categorically reiterates that it has carried out internal and external audits in a timely manner with no serious financial irregularity ever reported. The timelines for the same are rigorously adhered to and executed with the necessary due diligence. Whereas statutory audit is done once in a year, internal audit is executed on a half yearly basis. Internal audits streamline all transactions and check the compliance level across the hierarchy. Internal audit is more focused on authenticity of financial transactions and monitoring of tax and other regulatory compliances which is conducted by M/S Subhendu Dutta Co, Cost Accountant, FRN No: 100863, 66 Malanga Lane, Kolkata 700012 for the year 2014-15, 2015-16 and 2016-17 and DPC Associates, Cost Accountants, FRN No: 001147, 3 Kapallitala Lane, 1ST Floor, Kolkata 700012 for the year 2017-18 and 2018-19. M/s. Bandyopadhyay Associates, Chartered Accountants of 350 (370/6) Pearapore Road, P.O.-Sheoraphuli, Dist- Hooghly, Pin-712223 West Bengal is appointed which conduct the external audit in accordance with Generally Accepted Auditing Principles as prescribed by relevant regulatory authorities. They conduct the audit procedures to obtain reasonable assurance about whether the financial statements are free from material misstatement and give a true and fair view of the state of affairs at the year end. The external auditors also review the status of procedural and transactional compliance in all financial transactions of JIS College of Engineering largely conducted through ERP.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

| Name of the non government funding agencies /individuals | Funds/ Grnats received in Rs. | Purpose                       |
|----------------------------------------------------------|-------------------------------|-------------------------------|
| Jinnovation Pvt. Ltd.                                    | 100000                        | Best Innovative Project Award |
| <a href="#">View File</a>                                |                               |                               |

6.4.3 – Total corpus fund generated

|           |
|-----------|
| 160694540 |
|-----------|

#### 6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

| Audit Type     | External |                    | Internal |                            |
|----------------|----------|--------------------|----------|----------------------------|
|                | Yes/No   | Agency             | Yes/No   | Authority                  |
| Academic       | Yes      | Nirmala Foundation | Yes      | JIS College Of Engineering |
| Administrative | Yes      | Nirmala Foundation | Yes      | JIS College Of Engineering |

**6.5.2 – Activities and support from the Parent – Teacher Association (at least three)**

**1. Regular parent -teacher meet both department and institutional to discuss about the educational progress of the students. This helps to understand the problems faced by the students that hinder them in studying and also the teachers can convey the progress of the students to their parents. 2. Parents are involved in various committees which promote the healthy academic and Institutional growth. 3. Parents support to promote social responsibility among students.**

**6.5.3 – Development programmes for support staff (at least three)**

**1. Hands-on training on Firefighting was conducted for the laboratory assistants, attendants, and all security staff. 2. Seminars on Solar Energy and related electrical home appliances (lighting, fan, etc.) were conducted by the Electrical Engineering department 3. Awareness Seminar on Road Safety was conducted by the civil engineering department**

**6.5.4 – Post Accreditation initiative(s) (mention at least three)**

**1) Establishment of a new building for Civil Engineering 2) Establishment of a full-scale digital studio with a preview theater 3) Implementation of digital pedagogy in the form of flipped learning 4) Construction of new 22 ICT based flipped classrooms for practicing digital pedagogy 5) Construction of new cafeteria**

**6.5.5 – Internal Quality Assurance System Details**

|                                        |            |
|----------------------------------------|------------|
| a) Submission of Data for AISHE portal | <b>Yes</b> |
| b) Participation in NIRF               | <b>Yes</b> |
| c) ISO certification                   | <b>Yes</b> |
| d) NBA or any other quality audit      | <b>Yes</b> |

**6.5.6 – Number of Quality Initiatives undertaken during the year**

| Year        | Name of quality initiative by IQAC                     | Date of conducting IQAC | Duration From     | Duration To       | Number of participants |
|-------------|--------------------------------------------------------|-------------------------|-------------------|-------------------|------------------------|
| <b>2019</b> | <b>Academic Audit</b>                                  | <b>29/07/2019</b>       | <b>29/07/2019</b> | <b>30/07/2019</b> | <b>150</b>             |
| <b>2020</b> | <b>Faculty Orientation Program</b>                     | <b>06/01/2020</b>       | <b>06/01/2020</b> | <b>07/01/2020</b> | <b>12</b>              |
| <b>2020</b> | <b>Beyond Curriculum Training Program</b>              | <b>13/01/2020</b>       | <b>13/01/2020</b> | <b>18/01/2020</b> | <b>319</b>             |
| <b>2020</b> | <b>IPR Awareness Programme</b>                         | <b>21/02/2020</b>       | <b>21/02/2020</b> | <b>21/02/2020</b> | <b>98</b>              |
| <b>2019</b> | <b>FDP on Flipped Learning</b>                         | <b>03/07/2019</b>       | <b>03/07/2019</b> | <b>05/07/2019</b> | <b>132</b>             |
| <b>2019</b> | <b>Flipped Learning Workshop for 1st year students</b> | <b>13/08/2019</b>       | <b>13/08/2019</b> | <b>14/08/2019</b> | <b>65</b>              |

|                   |                                                                                     |            |            |            |     |
|-------------------|-------------------------------------------------------------------------------------|------------|------------|------------|-----|
| 2019              | International Conference on Nanotechnology Nanomaterials for energy and Environment | 18/10/2019 | 18/10/2019 | 19/10/2019 | 160 |
| No file uploaded. |                                                                                     |            |            |            |     |

## CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

| Title of the programme                                                              | Period from | Period To  | Number of Participants |      |
|-------------------------------------------------------------------------------------|-------------|------------|------------------------|------|
|                                                                                     |             |            | Female                 | Male |
| The DAY with MAA: Little Help to Some Extent                                        | 10/05/2020  | 11/05/2020 | 63                     | Nill |
| A child loved today will spread the love tomorrow: Distribution of food and clothes | 14/11/2019  | 14/11/2019 | 23                     | Nill |

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

| Percentage of power requirement of the University met by the renewable energy sources                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>The 5 Kw p Roof top SPV Power Plant is being set up in the college. Necessary instruments for the execution of the project have been installed. The various data of this SPV power plant is recorded and an analysis is on process. The inverter used is an isolated solar inverter which synchronizes the power from SPV plant with the existing grid. This inverter goes into an isolated state when the existing grid supply is cut off. The estimated energy that can be generated from this plant is calculated using the technical specifications of the modules, inverter and other equipment used in the project. A simulation model has been made using PVSYST, a SPV simulation software for loss analysis.</p> <p>Objective of this Initiative: i) To provide the power for the PEAK load by usual grid compensation with SPV. ii) Observation of Bus bars synchronization. iii) Estimation of annualize life cycle cost of this project for 20 years. iv) Estimation of carbon credit from the project. v) Estimation for modernization of West Bengal power plant with implementing SPV system to provide peak load demand.</p> |

7.1.3 – Differently abled (Divyangjan) friendliness

| Item facilities     | Yes/No | Number of beneficiaries |
|---------------------|--------|-------------------------|
| Physical facilities | Yes    | 22                      |
| Provision for lift  | Yes    | 16                      |
| Ramp/Rails          | Yes    | 16                      |

|                                                                 |            |            |
|-----------------------------------------------------------------|------------|------------|
| <b>Braille Software/facilities</b>                              | <b>Yes</b> | <b>1</b>   |
| <b>Rest Rooms</b>                                               | <b>Yes</b> | <b>22</b>  |
| <b>Scribes for examination</b>                                  | <b>No</b>  | <b>Nil</b> |
| <b>Special skill development for differently abled students</b> | <b>Yes</b> | <b>5</b>   |

#### 7.1.4 – Inclusion and Situatedness

| Year        | Number of initiatives to address locational advantages and disadvantages | Number of initiatives taken to engage with and contribute to local community | Date              | Duration  | Name of initiative                                                | Issues addressed                                                                                       | Number of participating students and staff |
|-------------|--------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------|-----------|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------|
| <b>2019</b> | <b>1</b>                                                                 | <b>1</b>                                                                     | <b>12/08/2019</b> | <b>1</b>  | <b>Awareness for water conservation</b>                           | <b>Spreading awareness for water conservation</b>                                                      | <b>20</b>                                  |
| <b>2019</b> | <b>1</b>                                                                 | <b>1</b>                                                                     | <b>02/11/2019</b> | <b>1</b>  | <b>Awareness on energy conservation</b>                           | <b>Spreading awareness on energy conservation</b>                                                      | <b>20</b>                                  |
| <b>2020</b> | <b>1</b>                                                                 | <b>1</b>                                                                     | <b>12/01/2020</b> | <b>1</b>  | <b>Vivek Yatra- a rally from JISCE to Kalyani Railway Station</b> | <b>Propagation of the philosophy and the ideals of Swami Vivekananda for which he lived and worked</b> | <b>90</b>                                  |
| <b>2020</b> | <b>1</b>                                                                 | <b>1</b>                                                                     | <b>14/03/2020</b> | <b>1</b>  | <b>Awareness programme on the Novel Corona Virus and Dengue</b>   | <b>Spreading awareness of the Novel Corona Virus and Dengue</b>                                        | <b>60</b>                                  |
| <b>2020</b> | <b>1</b>                                                                 | <b>1</b>                                                                     | <b>10/04/2020</b> | <b>15</b> | <b>Installed Barricades in the</b>                                | <b>Social distancing</b>                                                                               | <b>14</b>                                  |

|      |   |   |            |    |                                                                                                                |                                               |    |
|------|---|---|------------|----|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----|
|      |   |   |            |    | market area in association with Kalyani Municipality                                                           |                                               |    |
| 2020 | 1 | 1 | 12/04/2020 | 15 | Stationed Trained Security Personnel distributed sanitizers and masks to the people entering the market        | Hand Sanitization Face masking                | 5  |
| 2020 | 1 | 1 | 15/04/2020 | 5  | Opened up a help desk with the college authority to spread awareness about the Novel Corona Virus and COVID-19 | Spreading awareness of the Novel Corona Virus | 11 |

[View File](#)

#### 7.1.5 – Human Values and Professional Ethics

| Title                                            | Date of publication | Follow up(max 100 words) |
|--------------------------------------------------|---------------------|--------------------------|
| Students Hand Book [Ethics for students]         | 08/07/2019          | Regular basis            |
| Key Responsibility Area (KRA) [Ethics for staff] | 08/07/2019          | Regular basis            |

#### 7.1.6 – Activities conducted for promotion of universal Values and Ethics

| Activity                     | Duration From | Duration To | Number of participants |
|------------------------------|---------------|-------------|------------------------|
| Induction Program            | 02/08/2019    | 22/08/2019  | 534                    |
| Swachh Bharat Abhiyan        | 01/10/2019    | 02/10/2019  | 280                    |
| Swachhta Pakhwada            | 01/07/2019    | 15/07/2019  | 137                    |
| AICTE sponsored UHV Training | Nil           | Nil         | 5                      |

[View File](#)

### 7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

Restricted entry of automobiles inside the campus

Use of Bicycles/ Battery powered vehicles inside the campus

Pedestrian Friendly pathways maintained inside the campus

Ban on use of Plastic inside the campus

Landscaping with trees and plants inside the campus

OnGrid Solar Power Plant installed in the campus

LED Lights are installed in the campus

## 7.2 – Best Practices

### 7.2.1 – Describe at least two institutional best practices

**Best Practice - 1** Title of the Practice Centre for Innovation, Incubation and Entrepreneurship (IIPC) Objectives of the Practice To facilitate Innovation through Research and collaboration for translating domain expertise into products or technologies. To Foster entrepreneurial spirit, promote start-ups by providing appropriate incubation facilities, offer consultancy services and improve industry institute interaction. The Context Envisages creating products and technologies that address the societal needs and also nurture the innovative minds. Create an ecosystem for innovation and entrepreneurship through incubation support, facilitation of technology transfer for commercialization by multidisciplinary approach. Provide the opportunity for students to use their learning to solve complex engineering challenges, through projects. Transform prototypes and proof of concepts into Product/Technology/Service across the campus through JIS TechFest. The Practice The Industry Institute Partnership cell (IIPC) is instrumental in keeping strong bonding with Industry. Few illustrations are Microsoft faculty Connection, IBM TGMC, Infosys Campus Connect, collaboration with Texas Instruments etc. Recommendations are: Direct involvement of industry personnel in framing out autonomous curriculum syllabus to make role-ready, industry ready engineers. - Industry personnel in Board of Studies of the departments Industry representative in Academic Council - Industrial training/ visits for the students with faculty coordinators Industry sponsored projects / electives Industry sponsored research Skill orientation programme of the students directly by the Industry experts. - Industry members in maintaining quality / standard i.e. In IQAC Evidence of Success Became a hub for entrepreneurial activities across the state. Build strong network of Mentors/Advisors across the verticals. Provides necessary infrastructure support to incubate to progress in their ideas. Facilitates interaction between industry, institution and funding agencies to transform concept to commercialization Leverage schemes of the Government bodies towards promoting entrepreneurship. Problems Encountered and Resources Required Encouraging students to be a part of the session after the regular academic activities was the only issue. But with more students showing promise of being a part of the event after a few interactive sessions, we hope that the issue is as expected, only short lived. However, by organizing different activities by the IIPC a good culture developed that helped in initiating good number of IPRs.

**Best Practice - 2** Title of the Practice Igniting Young Minds with the Spirit of Innovation Objectives of the Practice The Institute has developed innovation cell as a part of RD cell way back in 2015 and through metamorphosis as per MHRD directive the same is now Institutional Innovation Council. Major objectives of this council are as follows: To nurture creative thinking, self-thinking and design thinking skills of each student. To provide an opportunity for apply their theoretical understanding in solution of complex scientific and engineering challenges through project. Promotion of idea generation starting from very 1st year,

mentoring them towards prototype to product development leading to technology transfer for commercialization through multidisciplinary approach. To create product and technologies that directly addresses societal issues. To enhance Industry Institute interaction and solution of live industrial problems. To provide financial and intellectual support towards patenting to granting and finally leading towards start-up creation through appropriate incubation.

**Context Bridging the gap between knowing and doing** A number of reports have predicted that large number of engineering students graduating per year are not employable of there is notable gap between information acquired and skill required in the Industry front. Hence, it is the need of the hour that students apply their learning into development of complex engineering projects which would make them ready for the future.

**Building the future of the Nation: Self-reliant India** Leaving aside the age-old convention of job-seeker we need a paradigm shift in students' perception from very 1st year. They would be exposed towards self-thinking, ideation, prototype development, mentored towards licensing and product development there by igniting the spirit of entrepreneurship skills.

**Working for the Mankind** To make students socially responsible by solving problems that directly address burning societal issues related to health, water and energy.

**Impact of Industry 4.0** To make students ready with skills that a machine and automation can do i.e. imagination, creativity, collaboration.

**The Practice 'Igniting young minds with the spirit of innovation'** is practiced through a number of number of initiatives. One dedicated design lab has been established with dedicated faculty mentor. The design lab is equipped with facilities of carrying out UG and PG level project works. This lab has been recognized as Centre of Excellence by CII. Every year selected students are invited by CII, BCII to showcase their achievements and promotion towards industrial mentorship. To bridge the gap between studying and realizing project papers have been added in curriculum of all departments from very 1st year. Leadership talk, awareness about patent, GI and copyright generation are carried as an activity of Institutional Innovation Council as MIC drive, IIC driven and self-driven activities. Annual technical symposium is organized for encouraging students towards converting their young ideas into prototype development where in experts from Industry are invited as evaluator for getting feedback of outside society and helping students with develop projects with industrial inputs. Providing industry exposure to the students though industry visits and projects having significant industry requirements. Selected projects from technical symposium are provided with full financial support for IPR filing to granting. One Centre of excellence has been created with MIPT, Russia for collaborative research work involving teachers and students of either country. Keeping in mind the facts of Industry 4.0 latest labs on cutting edge technologies has been established one of them is 3D printing facilities. This facility is unique as it provides an exposure towards additive manufacturing new product development. It helps students to materialize their novel ideas into reality and also can acts as a basic infrastructure of product development and start-up creation. Area of application is multidisciplinary where teachers and students from electrical, mechanical, biomedical can work together. Vertical project group concept is another unique feature of this practice where in each project group is formed of 4 students from 1st year, 3 students from 2nd year, 3 students form 3rd year, 2 from final year with faculty mentor at the top. The objective is that Knowledge and skills would flow across generation of students form the faculty mentor. Within the group they can act as peer enhancing their skills for working in a group

**Developing leadership skills** A project undertaken should not have its natural death with students passing out, rather the concept undertaken would be completed and finally that can lead towards product development and related customization. This groups can act as budding start-ups. Groups could be with inter-departmental students also which would further enhance the quality of project through crosspollination of ideas.

**Constraints** Time

management: To adjust with regular pattern of traditional examination system and prepare for that, sometimes it is difficult for the students to decide over the priority. In this context guidance from faculty mentor is very crucial.

Societal impact: To motivate students towards a career of entrepreneur which is some time difficult due to socio economic issues. Evidence of Success The Innovation Council of JISCE has ranked 4 star in 2018-19 and 5 star in 2019-20. One start-up company entitled 'JINNOAVTION' has been created involving teachers and students. More than 100 IPRs have been filed in past 5 years with 4 received granting till date. Three project received crowd funding for further development (in 2019-20) The Institute has produced some notable entrepreneurs who has established their own signature in the industrial front namely, Mr. Joydeep Mondal, MD CEO of AAKAR Innovation, Mr. Kanad Chatterjee 2005, CEO AwsomU (Online Retail Brand), Managing Director - Acrossinfinity Inc., Digital Marketing Manager -TCS (alumnus JISCE) and so forth. 3D printing facilities is across departments. One interdisciplinary project of Civil Engineering, Electrical Engineering and Computer Science and Engineering developed with 3D printing system received 1st prize in IIT-KGP Technical symposium. Sturdy growth in number of students' publications in past three years.

Problems Encountered and Resources Required 'Igniting young minds with the spirit of innovation' is not just cluster of words any incumbent has to realize the basic philosophy behind this. Hence, it is always difficult to make every student understand the philosophy of focusing of skills of innovations leaving behind the traditional booking system of education. The problem is pronounced in 1st year when students transform from school education to college education and the change in mindset from preparing for examinations to learning for application-analysis-evaluation and creation. Herein the role of faculty mentors is very important as any misunderstanding might deviate major focus of this practice.

Implementing vertical project group with interdisciplinary students-coordinating is not always easy as it requires the involvement of a number of departments. Coordination, monitoring and evaluation needs higher level participation from all. Finally, the key is creativity, collaboration and communication with this the practice of inculcating an ambience of innovation would really ignite all young minds of the Institute.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<https://www.jiscollege.ac.in/pdf/Industry-Institute-Partnership-Cell.pdf>,  
<https://www.jiscollege.ac.in/digital-learning.php#side-collaps-12>

### 7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

**Implementation of Digital Pedagogy in the form of Flipped Learning** A recent survey has pointed out that 64 per cent of fresh Indian graduates are not acceptable to the industry as these students are not equipped to apply their learning in most cases. Even though the new generation of Indian students are digitally native, in most cases, teaching and learning methodologies have not been able to keep pace with the times. The Institution made a paradigm shift in teaching-learning process by introducing "Flipped Learning" and got recognition for being the pioneer institution in India to initiate full- scale Flipped Learning in Engineering education. Traditionally, in class, a teacher will disseminate knowledge to the students. The students are expected to take notes, ask questions, and then remember and understand this knowledge. After the class or lecture while the students are working along, they are expected to use this knowledge in higher cognitive activities that involve them applying, analyzing and evaluating. In this traditional approach, contents play the main role, not application. This is not the effective environment for the learning, and it is

not the best use of instructor or the students' time. More importantly, it is certainly not the way in which students will be asked to work when they enter the employment market. The flipped learning approach overcome this weakness by flipping the stages of learning. In flipped learning, knowledge transfer to students takes place prior to class through creation and transfer of the digital contents takes place prior to class through creation and transfer of the digital contents such as topic related to videos PDFs, flowcharts, animations, interviews, notes etc. prepared by the instructor with his own short video clip at the beginning giving a brief summary of the digital content and its importance- all made available through a learning management system (LMS). The lower-level cognitive tasks generally involve watching, remembering and understanding digital contents, questions in a discussion forum, and sharing ideas or posting and answering and put into the hands of the students through their devices. Flipped Learning bridges the gap between students' ability to consume information and their ability to apply the information that they have consumed in a coherent and intelligent way. In Flipped Learning at the institute, the knowledge is transferred to students before the class through supporting material digitally available well in advance. Students carry out lower-level cognitive tasks, such as understanding and remembering, on their own before coming to class. Once in class, students can concentrate on higher-level and more complicated tasks such as applying, analyzing, and critically evaluating the concepts. In the classroom, students are offered a dynamic interactive group learning environment and an indirect instruction space in which a teacher's role is elevated to that of a moderator in a live brainstorming session.

Provide the weblink of the institution

<http://www.jiscollege.ac.in/pdf/new-methodology.pdf>

## 8.Future Plans of Actions for Next Academic Year

1. Curriculum Modification 2. More stress on practicing digital pedagogy in the form of flipped learning 3. Practicing blended learning model for all UG and PG courses. 4. Internship through Industry Partners 5. Focus on organizing more pre-placement training sessions 6. Increase the number of MoU 7. Planning for better NIRF ranking 8. Organizing at least three International Conferences in a calendar year. 9. Planning for better ARIIA ranking 10. Planning for ISO Certification 11. Participating in all kinds of initiatives from AICTE, MoE 12. Organizing idea competitions and product development competitions 13. Planning to increase the publications in Scopus / WoS 14. Planning for more patent submissions and granting 15. Planning for conduction of more co- and extra-curricular activities 16. More and more social activities through NCC/NSS 17. Revisit of Vision and Mission of the Institute 18. Strengthening the RD activities of the Institute 19. Strengthening the SLC activities 20. Revisit the intake vs admission statistics and further decisions on seat matrix