



Yearly Status Report - 2018-2019

Part A

Data of the Institution

| | |
|---|--|
| Part A | |
| Data of the Institution | |
| 1. Name of the Institution | JIS COLLEGE OF ENGINEERING |
| Name of the head of the Institution | Dr. Malay R Dave |
| Designation | Principal |
| Does the Institution function from own campus | Yes |
| Phone no/Alternate Phone no. | 03325822865 |
| Mobile no. | 9073370505 |
| Registered Email | iqac@jiscollege.ac.in |
| Alternate Email | info@jiscollege.ac.in |
| Address | Block A, Phase III, Kalyani, Nadia - 741235 West Bengal |
| City/Town | Kalyani |
| State/UT | West Bengal |
| Pincode | 741235 |

| 2. Institutional Status | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|------|---------------------------------------|-------------|-------------|-------|-------|------|----------------------|----------|--|-------------|-----------|---|---|------|------|-------------|-------------|---|---|------|------|-------------|-------------|
| Autonomous Status (Provide date of Conformant of Autonomous Status) | 31-Oct-2011 | | | | | | | | | | | | | | | | | | | | | | | | |
| Type of Institution | Co-education | | | | | | | | | | | | | | | | | | | | | | | | |
| Location | Urban | | | | | | | | | | | | | | | | | | | | | | | | |
| Financial Status | private | | | | | | | | | | | | | | | | | | | | | | | | |
| Name of the IQAC co-ordinator/Director | Dr. Papun Biswas | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone no/Alternate Phone no. | 09432011490 | | | | | | | | | | | | | | | | | | | | | | | | |
| Mobile no. | 9433766654 | | | | | | | | | | | | | | | | | | | | | | | | |
| Registered Email | iqac@jiscollege.ac.in | | | | | | | | | | | | | | | | | | | | | | | | |
| Alternate Email | info@jiscollege.ac.in | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. Website Address | | | | | | | | | | | | | | | | | | | | | | | | | |
| Web-link of the AQAR: (Previous Academic Year) | https://jiscollege.ac.in/pdf/jisceaqar17-18.pdf | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. Whether Academic Calendar prepared during the year | Yes | | | | | | | | | | | | | | | | | | | | | | | | |
| if yes,whether it is uploaded in the institutional website: Weblink : | https://www.jiscollege.ac.in/pdf/ac2018_2019.pdf | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. Accrediation Details | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>B</td> <td>2.72</td> <td>2009</td> <td>15-Jun-2009</td> <td>14-Jun-2014</td> </tr> <tr> <td>2</td> <td>A</td> <td>3.02</td> <td>2015</td> <td>03-Mar-2015</td> <td>02-Mar-2020</td> </tr> </tbody> </table> | | | | | | Cycle | Grade | CGPA | Year of Accrediation | Validity | | Period From | Period To | 1 | B | 2.72 | 2009 | 15-Jun-2009 | 14-Jun-2014 | 2 | A | 3.02 | 2015 | 03-Mar-2015 | 02-Mar-2020 |
| Cycle | Grade | CGPA | Year of Accrediation | Validity | | | | | | | | | | | | | | | | | | | | | |
| | | | | Period From | Period To | | | | | | | | | | | | | | | | | | | | |
| 1 | B | 2.72 | 2009 | 15-Jun-2009 | 14-Jun-2014 | | | | | | | | | | | | | | | | | | | | |
| 2 | A | 3.02 | 2015 | 03-Mar-2015 | 02-Mar-2020 | | | | | | | | | | | | | | | | | | | | |
| 6. Date of Establishment of IQAC | 26-Jun-2010 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. Internal Quality Assurance System | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quality initiatives by IQAC during the year for promoting quality culture | | | | | | | | | | | | | | | | | | | | | | | | | |
| Item /Title of the quality initiative by | Date & Duration | | Number of participants/ beneficiaries | | | | | | | | | | | | | | | | | | | | | | |

| IQAC | | |
|--|------------------|------|
| Workshop on OBE | 20-Nov-2018 1 | 161 |
| Workshop on OBE | 09-Mar-2019 1 | 165 |
| Innovative Idea Competition | 20-Jan-2019 5 | 510 |
| International Conference on Digital pedagogy | 01-Apr-2019 2 | 306 |
| workshop on Microsoft in Digital Education | 03-Apr-2019 1 | 180 |
| IQAC Meeting | 14-May-2019 1 | 17 |
| Academic Audit | 03-Jun-2019 3 | 166 |
| Feedback from stakeholders | 03-Sep-2018 3 | 3612 |
| Parent Teacher Meet | 27-Apr-2019 1 | 251 |
| JISTech | 08-Mar-2019 2 | 2388 |
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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 PI: Dr. Sabyasachi Sen, Dean R&D, Head-Physics Co-PI: Dr. Papun Biswas, Head-EE | DST FIST | DST, Govt. Of India | 2018 1825 | 6000000 |
| Jis College of Engineering - First flip institute in India | Digital Pedagogy | World Bank Group | 2018 365 | 0 |
| Jis College of Engineering - IIC two star rank | IIC | MIC | 2019 180 | 0 |
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

| Upload latest notification of formation of IQAC | View File | | | | | | | | | | | | |
|---|---|----------------|----------------------|---|---|--|-------------|----------------|---|---|--|---------------------------|--|
| 10. Number of IQAC meetings held during the year : | 9 | | | | | | | | | | | | |
| 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 | View File | | | | | | | | | | | | |
| 11. Whether IQAC received funding from any of the funding agency to support its activities during the year? | Yes | | | | | | | | | | | | |
| If yes, mention the amount | 209000 | | | | | | | | | | | | |
| Year | 2019 | | | | | | | | | | | | |
| 12. Significant contributions made by IQAC during the current year(maximum five bullets) | | | | | | | | | | | | | |
| <p>? Implementation Monitoring of Digital Pedagogy for UG programs ? Monitoring on implementation of Learning Management System ? Verification of Regulation Book under Autonomous structure for curriculum reforms (following AICTE guideline) ? Academic Audit following NBA guidelines as per Tier I institutions ? Comparative analysis for growth with respect to national and international standards Academic audit as per NACC Autonomus Institute guidelines</p> | | | | | | | | | | | | | |
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| 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 | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Plan of Action</th> <th>Achivements/Outcomes</th> </tr> </thead> <tbody> <tr> <td>Implementation of Modern Digital Pedagogy for all the UG programmms</td> <td>Achieved in teaching learning methodology</td> </tr> <tr> <td>Establishment of Second Digital Studio</td> <td>Established</td> </tr> <tr> <td>Academic Audit</td> <td>Identified the "as is" situation and suggested the "to be" parameters for further action to the concerned Departments where the Academic Audit was being carried out.</td> </tr> <tr> <td>Organizing International Technical Symposium & International Conference</td> <td>Nurturing the innovative mind to fulfill the current industrial demand</td> </tr> <tr> <td colspan="2" style="text-align: center;">View File</td> </tr> </tbody> </table> | | Plan of Action | Achivements/Outcomes | Implementation of Modern Digital Pedagogy for all the UG programmms | Achieved in teaching learning methodology | Establishment of Second Digital Studio | Established | Academic Audit | Identified the "as is" situation and suggested the "to be" parameters for further action to the concerned Departments where the Academic Audit was being carried out. | Organizing International Technical Symposium & International Conference | Nurturing the innovative mind to fulfill the current industrial demand | View File | |
| Plan of Action | Achivements/Outcomes | | | | | | | | | | | | |
| Implementation of Modern Digital Pedagogy for all the UG programmms | Achieved in teaching learning methodology | | | | | | | | | | | | |
| Establishment of Second Digital Studio | Established | | | | | | | | | | | | |
| Academic Audit | Identified the "as is" situation and suggested the "to be" parameters for further action to the concerned Departments where the Academic Audit was being carried out. | | | | | | | | | | | | |
| Organizing International Technical Symposium & International Conference | Nurturing the innovative mind to fulfill the current industrial demand | | | | | | | | | | | | |
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| 14. Whether AQAR was placed before statutory body ? | Yes | | | | | | | | | | | | |

| Name of Statutory Body | Meeting Date |
|--|---|
| Board of Governance | 13-Sep-2019 |
| 15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ? | Yes |
| Date of Visit | 09-Aug-2019 |
| 16. Whether institutional data submitted to AISHE: | Yes |
| Year of Submission | 2019 |
| Date of Submission | 26-Feb-2019 |
| 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 having its own Management Information System (http://jis.creatrixcampus.com/user/login) through which stake holders can execute the routine activities. This system operates on cloud based 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 having the following facilities as ? Centralize and automate administration ? Use selfservice and selfguided services ? Assemble and deliver learning content rapidly ? Consolidate training initiatives on a salable webbased platform ? Support portability and standards ? Personalize content and enable knowledge reuse ? Integration with HR and Finance Section ? Administration tools ? Content Access ? Content development ? Content integration ? Skills management ? Assessment capabilities ? Adherence to standards ? Configuration ? 24 by 7 Access ? Security Students can know their own attendance in each theory and practical basis, they can receive the study material from the concerned faculty member, and mentees can communicate with his/her mentors and</p> |

inform the requirements and required information. Parents can also know their children performance and daily academic activities through the 'CREATRIX portal or 'CREATRIX APP' Faculty concern can identify their personal routine and as well class routine also. They can fix up their lesson plan, session plan and upload the study material for the required classes. Each individual can identify the progress of the syllabus completion of the particular topics. They may close look on the students attendance and as well as students performance of the corresponding subjects and guide accordingly. Administrative people can execute the daily routine work through their module, such as different types of report generation, report comparisons etc. 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 5. Library and information science 6. Online Attendance Monitoring System 7. Online Feedback Collection System 8. Online Learning Management System

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 |
|-------------------|----------------|--|------------------|
| BTech | CE | Civil Engineering | 02/07/2018 |
| BTech | BME | Bio Medical Engineering | 02/07/2018 |
| Mtech | EDPS | M.Tech in Electrical Devices And Power Systems | 06/07/2018 |
| Mtech | PGCS | Post Graduate In Computer Science | 06/07/2018 |
| Mtech | MCNT | M.Tech in Mobile Communication And Networking Technology | 06/07/2018 |
| Mtech | MME | M.Tech in Mechanical Engineering | 06/07/2018 |

| | | | |
|---------------------------|-----|---|------------|
| BTech | CSE | Computer Science | 02/07/2018 |
| BTech | IT | Information Technology | 02/07/2018 |
| BTech | ECE | Electronics and Communication Engineering | 02/07/2018 |
| BTech | EE | Electrical Engineering | 02/07/2018 |
| BTech | ME | Mechanical Engineering | 02/07/2018 |
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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 |
|---------------------------|---|----------------------|------------------|----------------------|
| BTech | Civil Engineering | 16/08/2018 | 18CV5DEAPL | 16/08/2018 |
| BTech | Bio medical Engineering | 16/08/2018 | 18MLBIPCIA | 16/08/2018 |
| BTech | Bio medical Engineering | 16/08/2018 | 18MLBIPCMI | 16/08/2018 |
| BTech | Computer Science & Engineering | 16/08/2018 | 18CI7GECDI | 16/08/2018 |
| BTech | Electrical Engineering | 16/08/2018 | 18EE7DEHVE | 16/08/2018 |
| BTech | Electronics and Communication Engineering | 17/08/2018 | 18EC5DE1AL | 17/08/2018 |
| BTech | Information Technology | 16/08/2019 | 18TE7DCMMC | 16/08/2018 |
| BTech | Mechanical Engineering | 16/08/2018 | 18ME3DCSOM | 16/08/2018 |
| BTech | Electrical Engineering | 16/08/2018 | 18EE5DCMC1 | 16/08/2018 |
| BTech | Electronics and Communication Engineering | 16/08/2018 | 18EC5DE1CA | 16/08/2018 |
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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

| Programme/Course | Programme Specialization | Dates of Introduction |
|------------------|--------------------------|-----------------------|
| BTech | Biomedical Engineering | 09/07/2018 |
| BTech | Civil Engineering | 09/07/2018 |

| | | |
|---------------------------|---|------------|
| BTech | Mechanical Engineering | 09/07/2018 |
| BTech | Electrical Engineering | 09/07/2018 |
| BTech | Electronics & Communication Engineering | 09/07/2018 |
| BTech | Information Technology | 09/07/2018 |
| BTech | Computer Science & Engineering | 09/07/2018 |
| View File | | |

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 |
|----------------------------------|---|---|
| BTech | Computer Science Engineering | 09/07/2018 |
| BTech | Information Technology | 09/07/2018 |
| BTech | Electronics & Communication Engineering | 09/07/2018 |
| BTech | Electrical Engineering | 09/07/2018 |
| BTech | Mechanical Engineering | 09/07/2018 |
| BTech | Civil Engineering | 09/07/2018 |
| BTech | Biomedical Engineering | 09/07/2018 |

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 |
|--|----------------------|-----------------------------|
| Developing Soft Skills and Personality | 09/07/2018 | 340 |
| Introduction to Programming in C | 09/07/2018 | 263 |
| Programming, Data Structures and Algorithms using Python | 09/07/2018 | 194 |
| Data Base Management Systems | 09/07/2018 | 168 |
| The Joy of Computing using Pythonity | 09/07/2018 | 126 |
| Digital Circuits | 09/07/2018 | 45 |
| Introduction to Internet of Things | 09/07/2018 | 89 |
| Numerical methods | 09/07/2018 | 79 |
| Analog communication | 09/07/2018 | 34 |
| Biology for engineers and other non-biologists | 09/07/2018 | 32 |
| View File | | |

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 | APPSARA | 1 |
| BTech | Beanstalkedu Services Private Limited | 1 |
| BTech | Blakcoat | 1 |
| BTech | Centre For The Sustainable Use Of Natural And Social Resources | 1 |
| BPEd | Cessini Technology Private Limited | 1 |
| BTech | CollegeDunia Web Private Limited | 2 |
| BTech | Corporate Shiksha | 2 |
| BTech | Digiarise | 1 |
| BTech | Environmental And Animal Research Society | 1 |
| BTech | Flying Boat Foundation | 1 |
| View File | | |

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 |
|---|
| <p>Students feedback is filled by both UG and PG Students in every semester. Feedback is received on varied aspects of the college including location, office, canteen, laboratory, library, administration and academics. The points are calculated according to the grades given by the students in various criteria. The grades are given as A, B, C, D, E (A5, B4, C3, D2, E1). The Average and percentage of various criteria are calculated. The strength and weaknesses mentioned by the students are summarized. Feedback is also collected from the parents during Parent Teacher Meetings (PTMs) that are organised by each and every department of the college. Suggestions and comments given by the guardians are also taken into account for future development. The different areas where improvements are required are discussed in respective committees/departments. The proposals given by the different committees and departments are discussed in Governing Body of the college for necessary action. Strengths of the college are also taken into consideration for further upgradation. Online feedback has been collected through the google doc, Institutional website from various stakeholders and followed by summarized the feedback for assessment based on the Institutional Benchmark and submitted to IQAC. Concerned Departments initiate the process for corrective measures and</p> |

further improvement based on the suggestion of IQAC.

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 | CSE | 120 | 135 | 125 |
| BTech | ECE | 120 | 120 | 86 |
| BTech | CE | 120 | 120 | 71 |
| BTech | ME | 120 | 120 | 79 |
| BTech | IT | 60 | 69 | 64 |
| BTech | BME | 60 | 60 | 35 |
| BTech | EE | 120 | 120 | 111 |
| Mtech | CSE | 18 | 15 | 15 |
| Mtech | EDPS | 18 | 18 | 16 |
| Mtech | ME | 18 | 10 | 11 |
| Mtech | MCNT | 18 | 6 | 3 |
| MBA | MBA | 60 | 40 | 34 |

[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 |
|------|---|---|---|---|--|
| 2018 | 2858 | 105 | 161 | 12 | 149 |

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 | Numberof smart classrooms | E-resources and techniques used |
|----------------------------|---|-----------------------------------|----------------------------------|---------------------------|---------------------------------|
| 161 | 161 | 6 | 24 | 30 | 28 |
| No file uploaded. | | | | | |
| No file uploaded. | | | | | |

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

Yes mentoring system is well in place at the Institute. Each member of the departments is attached to Mentorship programme. The faculty members are entrusted with the task of mentoring 10 to 15 students. They are responsible for academic and personal mentoring. This is to strengthen the bonds of appreciation and affection that exists between teachers and students. Interaction with students and counseling them help in their personal development. Tutors may keep the progress of the students in the Teacher's diary. This method

ensures one to one assistance provided to the students. Regular workshop on mentorship is organized at the beginning of each semester. Once the term starts for the new students immediately the students are assigned to their mentors. The guardians were also informed the name of the mentor of their wards.

| Number of students enrolled in the institution | Number of fulltime teachers | Mentor : Mentee Ratio |
|--|-----------------------------|-----------------------|
| 2858 | 161 | 1:18 |

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 |
|-----------------------------|-------------------------|------------------|--|--------------------------|
| 161 | 161 | Nil | 24 | 15 |

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 | Papun Biswas | Associate Professor | AICTE UKEIRI Leadership Development Program |
| 2018 | DEBASREE MITRA | Assistant Professor | Most innovative College East Zone on the occasion of Internship Day |
| 2018 | DEBASREE MITRA | Assistant Professor | Local Chapter rating A |
| 2018 | DEBASREE MITRA | Assistant Professor | Local Chapter rating A |
| 2019 | Dharmpal Singh | Associate Professor | UKIERI LDP PROGRAM |
| 2019 | Bikramjit Sarkar | Associate Professor | UKIERI LDP PROGRAM |
| 2019 | Rupak Bhattacharjee | Assistant Professor | Topper in Introductory mathematical Methods for Biologists |
| 2018 | Shyam Sundar Santra | Assistant Professor | Short term research internship for inspire fellows under Newton Bhabha programme INDIA DST and UK British Council |
| 2019 | Sabyasachi Sen | Associate Professor | MHRD IIC FOUR STAR Ranking |
| 2018 | Trina Dutta | Assistant Professor | TOPPER of Five percent in Outcome Based Pedagogic |

| | | | |
|---------------------------|-------------|---------------------|-----------------------------------|
| | | | principles for effective teaching |
| 2019 | Kaustav Das | Assistant Professor | Best Teacher Innovation |
| View File | | | |

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 | ECE | 8th | 05/06/2019 | 02/07/2019 |
| BTech | EE | 2nd | 11/06/2019 | 08/08/2019 |
| BTech | EE | 4th | 10/06/2019 | 08/08/2019 |
| BTech | EE | 6th | 13/06/2019 | 08/08/2019 |
| BTech | EE | 8th | 05/06/2019 | 02/07/2019 |
| BTech | CIVIL | 2nd | 11/06/2019 | 08/08/2019 |
| BTech | CIVIL | 4th | 10/06/2019 | 08/08/2019 |
| BTech | CIVIL | 6th | 13/06/2019 | 08/08/2019 |
| BTech | CIVIL | 8th | 07/06/2019 | 02/07/2019 |
| BTech | ME | 2nd | 11/06/2019 | 08/08/2019 |
| BTech | ME | 4th | 10/06/2019 | 08/08/2019 |
| BTech | ME | 6th | 11/06/2019 | 08/08/2019 |
| BTech | ME | 8th | 07/06/2019 | 02/07/2019 |
| BTech | BME | 2nd | 11/06/2019 | 08/08/2019 |
| BTech | BME | 4th | 10/06/2019 | 08/08/2019 |
| BTech | BME | 6th | 13/06/2019 | 08/08/2019 |
| BTech | BME | 8th | 07/06/2019 | 02/07/2019 |
| BTech | CSE | 2nd | 11/06/2019 | 08/08/2019 |
| BTech | CSE | 4th | 10/06/2019 | 08/08/2019 |
| BTech | CSE | 6th | 13/06/2019 | 08/08/2019 |
| BTech | CSE | 8th | 05/06/2019 | 02/07/2019 |
| BTech | IT | 2th | 11/06/2019 | 08/08/2019 |
| BTech | IT | 4th | 10/06/2019 | 08/08/2019 |
| BTech | IT | 6th | 11/06/2019 | 08/08/2019 |
| BTech | IT | 8th | 07/06/2019 | 02/07/2019 |
| BTech | ECE | 2nd | 11/06/2019 | 08/08/2019 |
| BTech | ECE | 4th | 10/06/2019 | 08/08/2019 |
| BTech | ECE | 6th | 11/06/2019 | 08/08/2019 |
| View File | | | | |

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 |
| Nil | Nil | 0 |

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)

https://jiscollege.ac.in/pdf/jisce_le.pdf

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 |
|----------------|----------------|--------------------------|---|---|-----------------|
| CSE | Mtech | MCSE | 18 | 18 | 100 |
| ME | Mtech | MME | 18 | 18 | 100 |
| ECE | Mtech | MCNT | 18 | 18 | 100 |
| BME | BTech | BME | 16 | 16 | 100 |
| ME | BTech | ME | 105 | 100 | 95.23 |
| CIVIL | BTech | CIVIL | 144 | 136 | 94.44 |
| EE | BTech | EE | 87 | 84 | 96.55 |
| ECE | BTech | ECE | 96 | 92 | 95.83 |
| IT | BTech | IT | 30 | 30 | 100 |
| CSE | BTech | CSE | 124 | 121 | 97.58 |

[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://jiscollege.ac.in/pdf/jisce_survey.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 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 |
|---------------------------|--|--|---------------|--------------------------|
| National | Rupak Bhattacharjee | NPTELTopper | 05/06/2019 | NPTEL |
| International | Dr.Subhamoy Singha Roy | (FSFRC) Fellow of Science Frwntier Research Council | 20/03/2019 | Global Journals (USA) |
| View File | | | | |

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 agency | Total grant sanctioned | Amount received during the year |
|--------------------------------------|----------|--|------------------------|---------------------------------|
| Major Projects | 6 | DSTFIST | 65 | 50 |
| Major Projects | 4 | AICTERPS | 17.64 | 17.38 |
| Minor Projects | 3 | UGC (Minor) | 1.9 | 0 |
| Interdisciplinary Projects | 1 | AICTEAQISSTTP | 3.18 | 3.18 |
| Interdisciplinary Projects | 1 | AICTEAQISSCST | 5.18 | 5.18 |
| Interdisciplinary Projects | 1 | AICTEAQISFDP | 5 | 5 |
| Interdisciplinary Projects | 1 | AICTEAQISPRERONA | 10.66 | 5.33 |
| Interdisciplinary Projects | 1 | AICTEAQISGOC | 5 | 5 |
| Interdisciplinary Projects | 1 | AICTEAQISInt. Travel | 1.8 | 1.8 |
| Industry sponsored Projects | 1 | SH Manufacturing Trading Pvt LtdProject Piezo tyre | 2.75 | 2.75 |
| Industry sponsored Projects | 1 | Eastern Rubber Industries ProjectE3 Cycle | 1.35 | 1.35 |
| Projects sponsored by the University | 1 | JISTech2K19 | 2.4 | 2.4 |
| Students Research Projects (Other | 1 | JISTech2K19 | 1.1 | 1.1 |

| | | | |
|------------------------------------|--|--|--|
| than compulsory by the University) | | | |
| No file uploaded. | | | |

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

| |
|---------|
| 3449900 |
|---------|

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 |
|--|--|------------|
| Training Programme on Industrial Automation using PLC SCADA | EE Dept. | 05/01/2018 |
| 01 week Workshop comprises a series of lecture by the expert of Govt. organization "MDP on Total Quality Management World class manufacturing" | Institutional Level | 08/01/2018 |
| Workshop on Industrial Automation and Control - Design (AutoCAD) | EE Dept | 12/01/2018 |
| FDP on Latest Technology of Renewable Energy Green Buildings | EE Dept. | 24/01/2018 |
| India First Leadership Talk by Shri. Anand Mahindra, Chairman, Mahindra Group | Institutional Innovation Council - JISCE | 08/01/2019 |
| Workshop on IPR for Students and Faculty Members | Institutional Innovation Council - JISCE | 10/01/2019 |
| 3Days Entrepreneurship Awareness Camp Under DSTNIMAT Project 201819 | EE Dept. | 15/01/2019 |
| Episode 02 of India First Leadership Talk with Dr. Anand Deshpande, CMD, Persistent Systems Ltd. | Institutional Innovation Council - JISCE | 24/01/2019 |
| 5th Technical Symposium JISTech 2k19 Signature Event of JISCE | Institutional | 08/03/2019 |
| Design Competition for Proof of Concept Development | Institutional Innovation Council - JISCE | 01/04/2019 |
| Episode 04 of India First Leadership Talk | Institutional Innovation Council - | 10/04/2019 |

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|--|--|------------|
| with with Prof. Anil D. Sahasrabudhe, Chairman, AICTE | JISCE | |
| Idea 2 Innovation (Awareness Seminar on Innovation, IPR Startup and Innovation Contest) 3 phase programm | Joint collaboration with EDCJISCE, CII Centre for Innovation JISCE, Institutional Innovation Council - JISCE | 05/08/2019 |
| One Day Seminar On Startup Business | EE Dept. | 30/08/2019 |
| No file uploaded. | | |

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 |
|---|-----------------|--------------------|---------------|---|
| RFID Protected DTMF Based Robotic Tractor for Smart Agriculture | Prithwjit Das | CSI Convention TIG | 31/03/2019 | First Position in Innovative Paper presentation at CSI Convention |
| View File | | | | |

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

| Incubation Center | Name | Sponsored By | Name of the Start-up | Nature of Start-up | Date of Commencement |
|---|----------------------|----------------------------|----------------------|--------------------|----------------------|
| JIS Innovation and Incubation Center (JISIIC) | JInnovation Pvt. Ltd | JIS College of Engineering | JInnovation Pvt. Ltd | Prototype Design | 30/07/2018 |
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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

| Name of the Department | Number of PhD's Awarded |
|------------------------------|-------------------------|
| Computer Science Engineering | 1 |
| Chemistry | 1 |

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) |
|---------------|------------|-----------------------|--------------------------------|
| International | CSE | 15 | 1.02 |
| International | IT | 15 | 1.3 |
| International | ECE | 18 | 1.2 |
| International | EE | 8 | 1.03 |
| International | ME | 3 | 0.89 |
| International | CE | 1 | 0.6 |
| International | BME | 3 | 1.6 |

| | | | |
|-------------------|------|---|------|
| International | PHYS | 7 | 4.03 |
| International | CHEM | 1 | 1.5 |
| International | MATH | 2 | 1.2 |
| No file uploaded. | | | |

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 |
|-------------------|-----------------------|
| MATH | 1 |
| CSE | 13 |
| IT | 1 |
| ECE | 1 |
| EE | 1 |
| ME | 1 |
| BME | 2 |
| CHEM | 6 |
| No file uploaded. | |

3.4.4 – Patents published/awarded during the year

| Patent Details | Patent status | Patent Number | Date of Award |
|---|---------------|---------------|---------------|
| AbledPortability_Mobility | Published | 2019310282 | 02/08/2019 |
| Fold On the GO | Published | 2019310284 | 02/08/2019 |
| A System For Data Acquisition And Control With ElectroOculography Signals | Published | 2018310184 | 15/06/2018 |
| A System for Transferring Audio as Text Message Applicants | Published | 2018310188 | 15/06/2018 |
| An Integrated SYSTEM To Predict The Traffic Congestion | Published | 2018310170 | 08/06/2018 |
| Automatic Cloth Changeable Baby Care Smart Intelligent Cradle with Real Time Surveillance | Filed | 2018310448 | 28/11/2018 |
| Self powered smart Intelligent Washable Green Pay and Use Toilet | Filed | 2018310448 | 28/11/2018 |
| Solar Powered Cooling Helmet for | Filed | 2019310128 | 30/03/2019 |

| | | | |
|---|-------|------------|------------|
| Jawan Traffic Police | | | |
| Digital Voting Machin (DVM) with Biometric Verification System with Instant Counting Facility | Filed | 2019310059 | 15/02/2019 |
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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 |
|--|---|--|---------------------|----------------|---|---|
| Tuning and transfer functional modelling of a prosthetic arm | Neogi, B., Barui, S., Das, S., Paul, S., Ghosh, J., Ghosh, S. | Journal of Computational Methods in Sciences and Engineering | 2019 | 1 | JIS College of Engineering | 3 |
| Quantum Confined States of Electrons in Semiconductor Quantum Ring Under Crossed Electromagnetic Field | Deyasi, A., Bhatta charyya, S. | Lecture Notes in Electrical Engineering | 2019 | 1 | JIS College of Engineering | 2 |
| Disaster management system using vehicular Ad Hoc networks | Das Gupta, S., Choudhury, S., Chaki, R. | Advances in Intelligent Systems and Computing | 2019 | 1 | JIS College of Engineering | 3 |
| Synthesis of high-speed multivalued ALU for $(2p \pm q)$ Radix | Banerjee, A., Bhatta charyya, S., Deyasi, A. | Lecture Notes in Electrical Engineering | 2019 | 2 | JIS College of Engineering | 3 |
| Fast squaring technique for radix vicinity | Banerjee, A., Deyasi, A., Bhatta | Lecture Notes in Electrical Engineering | 2019 | 2 | JIS College of Engineering | 6 |

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|--|---|--|------|---|----------------------------|---|
| numbers for radix $2n \pm M$ with reduced computational complexity | charyya, S., Sarkar, A. | | | | | |
| Intelligent Approaches for the Diagnosis of Low Back Pain | Das, S., Sanyal, M.K., Datta, D. | Proceedings - 2019 Amity International Conference on Artificial Intelligence, AICAI 2019 | 2019 | 2 | JIS College of Engineering | 3 |
| Impact of data mining techniques in predictive modeling: A case study | DasGupta, S., Saha, S., Das, S.K. | Advances in Intelligent Systems and Computing | 2019 | 1 | JIS College of Engineering | 3 |
| Deep Convolutional Neural Network Based Facial Keypoints Detection | Dasgupta, M., Mandal, J.K. | Communications in Computer and Information Science | 2019 | 2 | JIS College of Engineering | 5 |
| Studies on die filling of A356 Al alloy and development of a steering knuckle component using rheo pressure die casting system | Das, P., Bhuniya, B., Samanta, S.K., Dutta, P. | Journal of Materials Processing Technology | 2019 | 2 | JIS College of Engineering | 7 |

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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 | Institutional affiliation as mentioned in |
|--------------------|----------------|------------------|---------------------|---------|------------------------------------|---|
|--------------------|----------------|------------------|---------------------|---------|------------------------------------|---|

| | | | | | citation | the publication |
|---|--|---|------|---|----------|----------------------------|
| Medical video processing: Concept and applications | Goswami, S., Dey, U., Roy, P., Ashour, A.S., Dey, N. | Computer Vision: Concepts, Methodologies, Tools, and Applications | 2018 | 1 | 10 | JIS College of Engineering |
| Effect of heat treatment on microstructure behavior and hardness of en 8 steel | Biswas, P., Kundu, A., Mondal, D., Kumar Bardhan, P. | IOP Conference Series: Materials Science and Engineering | 2018 | 3 | 12 | JIS College of Engineering |
| Advanced Diagnosis of Deadly Diseases Using Regression and Neural Network | Das, S., Sanyal, M.K., Datta, D. | Communications in Computer and Information Science | 2018 | 1 | 13 | JIS College of Engineering |
| AIISLDr: Artificial intelligent selflearning doctor | Das, S., Sanyal, M., Datta, D., Biswas, A. | Advances in Intelligent Systems and Computing | 2018 | 1 | 14 | JIS College of Engineering |
| Activity Based Learning (ABL) for engaging engineering students | Biswas, A., Das, S., Ganguly, S. | Lecture Notes in Networks and Systems | 2018 | 1 | 15 | JIS College of Engineering |
| Double ended bottomup approach of data warehouse architecture employing country ISO code engendered cryptographic algorithm | Chowdhury, R., Bhatta charya, I., De, N., Saha, S. | Lecture Notes in Networks and Systems | 2018 | 2 | 16 | JIS College of Engineering |

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|--|---|---|------|-----|----|----------------------------|
| Aspects of lowpower highspeed CMOS VLSI design: A review | Ghosh, P., Saha, T., Kumari, B. | Lecture Notes in Networks and Systems | 2018 | 2 | 13 | JIS College of Engineering |
| Realization of outcomebased education through teaching learning methodology in engineering institution | Chowdhury, R., Saha, S., Sahana, S., Sanki, D. | Lecture Notes in Networks and Systems | 2018 | 2 | 12 | JIS College of Engineering |
| CBSTD: A cloud based symbol table driven DNA compression algorithm | Majumder, A.B., Gupta, S. | Lecture Notes in Networks and Systems | 2018 | 1 | 12 | JIS College of Engineering |
| An energyefficient congestion avoidance prioritybased routing algorithm for body area network | Majumder, A.B., Gupta, S. | Lecture Notes in Networks and Systems | 2018 | Nil | 8 | JIS College of Engineering |
| Soft computing approach to electrical transmission network congestion management | Mukhopadhyay, D.S., Chanda, R., Chakraborti, D., Biswas, P. | Lecture Notes in Networks and Systems | 2018 | 3 | 10 | JIS College of Engineering |
| Remote healthcare development using vehicular Ad Hoc and wireless sensor networks | DasGupta, S., Saha, S., Chatterjee, K. | Advances in Intelligent Systems and Computing | 2018 | 2 | 11 | JIS College of Engineering |

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|---|--|---|------|---|----|----------------------------|
| Foreword | Gupta, S. | Lecture Notes in Networks and Systems | 2018 | 1 | 13 | JIS College of Engineering |
| Effects of sidewall spacer layers on thermal and low frequency noise performance of SOI UTB MOSFETs | Bhattacharjee, S., Biswas, A. | Microsystem Technologies | 2018 | 2 | 12 | JIS College of Engineering |
| Air quality assessment using weighted interval type2 fuzzy inference system | Debnath, J., Majumder, D., Biswas, A. | Ecological Informatics | 2018 | 1 | 9 | JIS College of Engineering |
| Quantum perspective on the localized strand separation and cyclization of DNA double helix | Singha Roy, S., Bandyopadhyay, P. | Physics Letters, Section A: General, Atomic and Solid State Physics | 2018 | 1 | 12 | JIS College of Engineering |
| Vanishing Thermal Conductance of Carbon Nanotube upon Encapsulation by Zigzag Sulfur Chain | Koley, S., Sen, S., Chakrabarti, S. | Journal of Physical Chemistry Letters | 2018 | 9 | 10 | JIS College of Engineering |
| Selective chloroform sensor using thiol functionalized reduced | Midya, A., Mukherjee, S., Roy, S., Santra, S., Manna, N., Ray, | Materials Research Express | 2018 | 2 | 12 | JIS College of Engineering |

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|--|--|--|------|-----|----|----------------------------|
| graphene oxide at room temperature | S.K. | | | | | |
| Edited Book I3SET2016 | Bhattacharyya, S., Sen, S., Dutta, M., Biswas, P., Chattopadhyay, H. | Lecture Notes in Networks and Systems | 2018 | 3 | 19 | JIS College of Engineering |
| Tuning and transfer functional modelling of a prosthetic arm | Neogi, B., Barui, S., Das, S., Paul, S., Ghosh, J., Ghosh, S. | Journal of Computational Methods in Sciences and Engineering | 2019 | 3 | 3 | JIS College of Engineering |
| Quantum Confined States of Electrons in Semiconductor Quantum Ring Under Crossed Electromagnetic Field | Deyasi, A., Bhattacharyya, S. | Lecture Notes in Electrical Engineering | 2019 | 2 | 2 | JIS College of Engineering |
| Disaster management system using vehicular Ad Hoc networks | Das Gupta, S., Choudhury, S., Chaki, R. | Advances in Intelligent Systems and Computing | 2019 | Nil | 3 | JIS College of Engineering |
| Synthesis of highspeed multivalued ALU for $(2p \pm q)$ Radix | Banerjee, A., Bhattacharyya, S., Deyasi, A. | Lecture Notes in Electrical Engineering | 2019 | 2 | 3 | JIS College of Engineering |
| An improved bioinspired BAT algorithm for optimization | Purkait, G., Singh, D., Mishra, M., Jena, A.R., Banerjee, A. | Advances in Intelligent Systems and Computing | 2019 | 1 | 5 | JIS College of Engineering |
| Fast | | Lecture | 2019 | 2 | 6 | JIS |

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|--|--|--|------|---|---|----------------------------|
| squaring technique for radix vicinity numbers for radix $2n \pm M$ with reduced computational complexity | Banerjee, A., Deyasi, A., Bhatta charyya, S., Sarkar, A. | Notes in Electrical Engineering | | | | College of Engineering |
| Intelligent Approaches for the Diagnosis of Low Back Pain | Das, S., Sanyal, M.K., Datta, D. | Proceedings 2019 Amity International Conference on Artificial Intelligence, AICAI 2019 | 2019 | 2 | 3 | JIS College of Engineering |
| Impact of data mining techniques in predictive modeling: A case study | DasGupta, S., Saha, S., Das, S.K. | Advances in Intelligent Systems and Computing | 2019 | 3 | 3 | JIS College of Engineering |
| Deep Convolutional Neural Network Based Facial Keypoints Detection | Dasgupta, M., Mandal, J.K. | Communications in Computer and Information Science | 2019 | 1 | 5 | JIS College of Engineering |
| Studies on die filling of A356 Al alloy and development of a steering knuckle component using rheo pressure die casting system | Das, P., Bhuniya, B., Samanta, S.K., Dutta, P. | Journal of Materials Processing Technology | 2019 | 1 | 7 | JIS College of Engineering |
| Comparison | Sengupta, | Renewable | 2019 | 1 | 6 | JIS College of |

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|---|---|---|------|----|---|----------------------------|
| of low wind speed aerodynamics of unsymmetrical blade HDarrieus rotorsblade camber and curvature signatures for performance improvement | A.R., Biswas, A., Gupta, R. | Energy | | | | Engineering |
| Compact dual wideband four/eight elements MIMO antenna for WLAN applications | Roy, S., Ghosh, S., Chakarborty, U. | International Journal of RF and Microwave ComputerAided Engineering | 2019 | 1 | 4 | JIS College of Engineering |
| Design factors of lumbar pedicle screws under bending load: A finite element analysis | Biswas, J.K., Sahu, T.P., Rana, M., Roy, S., Karmakar, S.K., Majumder, S., Roychowdhury, A. | Biocybernetics and Biomedical Engineering | 2019 | 2 | 8 | JIS College of Engineering |
| Study of silver nanoparticle/polyvinyl alcohol nanocomposite | Das, R.K., Das, M. | International Journal of Plastics Technology | 2019 | 10 | 5 | JIS College of Engineering |
| BIOMECHANICAL PERFORMANCE OF A MODIFIED DESIGN OF DYNAMIC CERVICAL IMPLANT COMPARED TO CONVENTIONAL BALL AND SOCKET DESIGN OF | Bhattacharya, S., Roy, S., Rana, M., Banerjee, S., Karmakar, S.K., Biswas, J.K. | Journal of Mechanics in Medicine and Biology | 2019 | 2 | 6 | JIS College of Engineering |

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|---|---|---|------|-----|----|----------------------------|
| AN ARTIFICIAL INTERVERTEBRAL DISC IMPLANT: A FINITE ELEMENT STUDY | | | | | | |
| Development of noise model for InAsSb MOSFETs and their application in low noise amplifiers | Bhattacharjee, S., Biswas, A. | Microsystem Technologies | 2019 | 2 | 6 | JIS College of Engineering |
| Thermoelectric switching of singlewalled carbon nanotubes due to encapsulation of iodine atomic chain | Koley, S., Sen, S., Chakrabarti, S. | Journal of Physical Chemistry C | 2019 | 9 | 15 | JIS College of Engineering |
| An improved displacement model for microelectromechanicals system based ultrasonic transducer | Pal, M., Maity, N.P., Maity, R. | Microsystem Technologies | 2019 | Nil | 9 | JIS College of Engineering |
| Eastern Himalayan glacial hazard analysis using UAVA brief approach | Das, S., Chakraborty, S., Rai, N., Dhar, A., Sadhu, A., Gautam, B., Verma, P., Singh, A., Sherpa, C., Chakraborty, M. | 2019 URSI AsiaPacific Radio Science Conference, APRASC 2019 | 2019 | 2 | 6 | JIS College of Engineering |
| Spam mail | Saha, S., | Smart Innovation, | 2019 | 1 | 7 | JIS College of |

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|---|---|--|------|---|----|----------------------------|
| detection using data mining: A comparative analysis | DasGupta, S., Das, S.K. | Systems and Technologies | | | | Engineering |
| SpinCrossover Assisted SpinSwitching and Rectification Action in HalfMetallic Graphitic Carbon Nitride | Bhowmick, R., Sen, S. | ChemPhys Chem | 2019 | 9 | 9 | JIS College of Engineering |
| Tuning and transfer functional modelling of a prosthetic arm | Neogi, B., Barui, S., Das, S., Paul, S., Ghosh, J., Ghosh, S. | Journal of Computational Methods in Sciences and Engineering | 2019 | 3 | 6 | JIS College of Engineering |
| AI Doctor: An intelligent approach for medical diagnosis | Das, S., Biswas, S., Paul, A., Dey, A. | Lecture Notes in Networks and Systems | 2018 | 1 | 5 | JIS College of Engineering |
| A study on data acquisition and analysis in real time for prediction of cardiovascular disease in real time using indigenous lowcost CHMS | Dutta, M., Dutta, D., Sikdar, S., Dutta, S., Dutta, S. | Lecture Notes in Networks and Systems | 2018 | 1 | 15 | JIS College of Engineering |
| A modified bio inspired: BAT algorithm | Singh, D. | International Journal of Applied Metaheuristic Computing | 2018 | 3 | 6 | JIS College of Engineering |

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|--|---|--|------|---|----|----------------------------|
| On design and implementation of an artificial lower limb | Das, S., Paul, S., Ojha, S.K., Neogi, B., Nazarov, A., Ghosh, J., Ghosh, S. | International Journal of Sensors, Wireless Communications and Control | 2018 | 3 | 12 | JIS College of Engineering |
| Assessment of uncontrolled intersections through calibration of VISSIM for indian traffic conditions | Datta, S. | Lecture Notes in Networks and Systems | 2018 | 1 | 14 | JIS College of Engineering |
| Cloud computing environment in big data for education | Singh, D. | Lecture Notes in Educational Technology | 2018 | 2 | 11 | JIS College of Engineering |
| Virtual data warehouse model employing cryptomath modus operandi and intelligent sensor algorithm for cosseted t ransferenc e and output aug mentation | Chowdhury, R., Roy, O., Datta, S., Dasgupta, S. | Knowledge Computing and Its Applications : Knowledge Manipulation and Processing Techniques : Volume 1 | 2018 | 2 | 7 | JIS College of Engineering |
| Some limitations of outcome based education | Sanyal, A., Gupta, R. | Lecture Notes in Networks and Systems | 2018 | 1 | 12 | JIS College of Engineering |
| Server utilization based smart temperature monitoring system for | Sahana, S., Bose, R., Sarddar, D. | Lecture Notes in Networks and Systems | 2018 | 2 | 13 | JIS College of Engineering |

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|---|---|--|------|------|----|----------------------------|--|
| cloud data center | | | | | | | |
| A Conceptual Software Model of EBusiness to Analyze the Growth Rate of a Product | Chatterjee, S., Chowdhury, S.R., Roy, K. | Advances in Intelligent Systems and Computing | 2018 | Null | 12 | JIS College of Engineering | |
| FogBased Hierarchical Search Optimization | Sahana, S., Bose, R., Sarddar, D. | Communications in Computer and Information Science | 2018 | 2 | 11 | JIS College of Engineering | |
| Study and design on cyber interaction processes for cerebral palsy employees | Das, Z., Islam, A., Banerjee, D., Ghosh, M., Neogi, B. | International Journal of Nanoparticles | 2018 | 3 | 12 | JIS College of Engineering | |
| Effect of surface to volume ratio on eigenenergy in quantum ring | Bhattacharyya, S., Halder, S., Deyasi, A. | Lecture Notes in Networks and Systems | 2018 | 2 | 12 | JIS College of Engineering | |
| Walking support control system algorithms testing with brain computer interface (BCI) and augmented reality (AR) technology integration | Nikitenko, M.S., Zhuravlev, S.S., Rudometov, S.V., Neogi, B., Belyi, A.M. | IOP Conference Series: Earth and Environmental Science | 2018 | 3 | 12 | JIS College of Engineering | |
| Effect of depth of cut on grindability of Inconel 600 | Biswas, S.K., Kundu, A., Bose, S.K., Biswas, D., | AIP Conference Proceedings | 2018 | 2 | 18 | JIS College of Engineering | |

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|--|---|---|------|-----|----|-------------------------------|
| | Banerjee, A., Majumdar, S. | | | | | |
| Euler number based feature extraction technique for gender discrimination from offline Hindi signature using SVM and BPNN classifier | Pal, M., Bhattacharyya, S., Sarkar, T. | 2018 Emerging Trends in Electronic Devices and Computational Techniques, EDCT 2018 | 2018 | 2 | 6 | JIS College of Engineering |
| A new approach to invisible water marking of color images using alpha blending | Patra, A., Saha, A., Chakraborty, A.K., Bhatnagar, K. | 2018 Emerging Trends in Electronic Devices and Computational Techniques, EDCT 2018 | 2018 | Nil | 15 | JIS College of Engineering |
| Effects of composition fraction on subthreshold behavior of InAs _{1-x} Sb _x channel UTB MOSFETs | Dey, S., Dey, B., Bhattacharyya, S. | 2018 Emerging Trends in Electronic Devices and Computational Techniques, EDCT 2018 | 2018 | 1 | 16 | JIS College of Engineering |
| Concept of mobile operator position based on neurocomputer interface and augmented reality | Kizilov, S.A., Nikitenko, M.S., Neogi, B. | IOP Conference Series: Materials Science and Engineering | 2018 | 3 | 17 | JIS College of Engineering |
| Introduc | Neogi, | Advances | 2018 | 3 | 13 | JIS |

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|---|--|--|------|---|----|----------------------------|
| ing MIT rule toward improvement of adaptive mechanical prosthetic arm control model | B., Islam, S.K.S., Chakraborty, P., Barui, S., Das, A. | in Intelligent Systems and Computing | | | | College of Engineering |
| Realization of RFIDBased DAS Using an RF Transceiver and Huffman Coding | Ghosh, S., Kundu, P.K. | IETE Journal of Research | 2018 | 1 | 12 | JIS College of Engineering |
| Electric discharge phenomenon in dielectric and electrolyte medium | Sindhu, M.K., Nandi, D., Basak, I. | Advances in Manufacturing | 2018 | 1 | 12 | JIS College of Engineering |
| Optimal payment time in a twoechelon supply chain with pricedependent demand under trade credit financing | Giri, B.C., Bhatnagar, R., Maiti, T. | International Journal of Systems Science: Operations and Logistics | 2018 | 1 | 11 | JIS College of Engineering |
| View File | | | | | | |

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

| Number of Faculty | International | National | State | Local |
|-----------------------------|---------------|----------|-------|-------|
| Attended/Seminars/Workshops | 81 | 10 | 2 | 15 |
| Presented papers | 72 | 2 | Nil | Nil |
| Resource persons | 31 | 25 | 16 | 10 |
| View File | | | | |

3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

| Name of the Consultan(s) department | Name of consultancy project | Consulting/Sponsoring Agency | Revenue generated (amount in rupees) |
|-------------------------------------|--|---|--------------------------------------|
| Biomedical Engineering | Developing a visualization tool for myocardial strain tensors | Mectron | 113075 |
| Biomedical Engineering | Developing and designing of heart rate measuring devices using a fingertip | Mectron | 113075 |
| Biomedical Engineering. | A single pixel is consist of a wireless contact lens to display | Mectron | 113075 |
| JIS College of Engineering | A single pixel is consist of a wireless coTraining On Digital Pedagogy | Narula Inistitute of Technology | 94500 |
| JIS College of Engineering | Training On Digital Pedagogy | Gununanak Insitute Of Technology | 126000 |
| Electrical Engineering | Training On Digital Pedagogy | Dr. Sudhir Chandra Sur Degree Engineering College | 94500 |
| Civil Engineering | Training On Digital Pedagogy | Greater Calcutta Degree Engineering College | 94500 |
| JIS College of Engineering | Training On Digital Pedagogy | Asansol Engineering College | 94500 |
| View File | | | |

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

| Name of the Consultan(s) department | Title of the programme | Agency seeking / training | Revenue generated (amount in rupees) | Number of trainees |
|-------------------------------------|------------------------------|--|--------------------------------------|--------------------|
| Dr. Malay R Dave | Training On Digital Pedagogy | Narula Inistitute of Technologyd. Block D, Kalyani | 94500 | 9 |
| Dr. Sabyasachi Sen | Training On Digital Pedagogy | Gununanak Insitute Of Technology | 126000 | 12 |
| Dr. Papun Biswas | Training On Digital Pedagogy | Dr. Sudhir Chandra Sur Degree Engineering College | 94500 | 9 |
| Mr. Kaustav | Training On | Greater | 94500 | 9 |

| | | | | |
|---------------------------|------------------------------|-------------------------------------|-------|---|
| Das | Digital Pedagogy | Calcutta Degree Engineering College | | |
| Mr. Jit Chakraborty | Training On Digital Pedagogy | Asansol Engineering College | 94500 | 9 |
| View File | | | | |

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/ collaborating agency | Number of teachers participated in such activities | Number of students participated in such activities |
|---|--|--|--|
| Awareness Programme | JISCE, NSS | 3 | 29 |
| Slum area development | JISCE, NCC | 4 | 30 |
| Tree plantation programme | JISCE, NCC | 3 | 64 |
| Aadhaar Card Survey | JISCE, NCC | 2 | 18 |
| Free health Campaign | JISCE, NCC | 4 | 68 |
| Tree plantation programme | JISCE, NCC | 4 | 38 |
| Awareness campaign against the severer heat | JISCE, NCC | 4 | 30 |
| Cleaning Programme | JISCE, NCC | 2 | 17 |
| Awarness Programme | JISCE, NCC | 5 | 33 |
| Vivek Yatra | JISCE, NCC | 5 | 90 |
| Jal Sakti Abhiyan(Jal Dibosh) | JISCE, NCC | 11 | 131 |
| Blood Donation Camp | JISCE, NCC | 6 | 49 |
| Independence Day Celebration | JISCE, NCC | 3 | 70 |
| Republic Day Celebration | JISCE, NCC | 3 | 70 |
| CATC VIII | 49 Bengal Battalion | 1 | 15 |
| CATC IX | 49 Bengal Battalion | 1 | 46 |
| CATC XIIIXIIIIXIV(RDC Selection) | 49 Bengal Battalion | 1 | 9 |

| | | | |
|--|---------------------|---|---|
| IGC - group competition | 49 Bengal Battalion | 1 | 7 |
| PRE RDC I | 49 Bengal Battalion | 1 | 5 |
| PRE RDC II | 49 Bengal Battalion | 1 | 5 |
| TSC IGC | 49 Bengal Battalion | 1 | 4 |
| AITSC(AL INDIA THAL SANIK CAMP Delhi 2017) | 49 Bengal Battalion | 1 | 1 |
| RDC(Republic Day 2018) | 49 Bengal Battalion | 1 | 1 |
| No file uploaded. | | | |

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 Benefited |
|---------------------------|-------------------------|--------------------------------------|------------------------------|
| Governor Medal 2018 | Best Cadet in Army Wing | NCC, West Bengal Sikkim Directorates | 1 |
| View File | | | |

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/Agency/collaborating agency | Name of the activity | Number of teachers participated in such activities | Number of students participated in such activities |
|-------------------------------|---|--|--|--|
| Awareness Programme | JISCE | Program for Arsenic Drinking Water Awareness | 5 | 33 |
| Vivek Yatra | JISCE | Celebration of National Youth Day, 157th Birthday of Swami Vivekananda | 5 | 90 |
| Jal Sakti Abhiyan(Jal Dibosh) | JISCE | Water Conservation Awareness533 | 11 | 131 |
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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 |
|---------------------------|-------------|-----------------------------|----------|
| Student Exchange | 10 | JIS Group | 10 |
| Faculty Exchange | 3 | BRICS | 7 |
| Student Exchange | 15 | AIT Bangkok | 15 |
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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 |
|-------------------|----------------------------|---|---------------|-------------|-------------|
| Internship | Internshala | Internshala | 01/01/2018 | 30/12/2019 | 2146 |
| Internship | Internshala | Internshala | 01/01/2018 | 30/12/2019 | 84 |
| Internship | AICTE Internship Portal | AICTE | 01/01/2019 | 30/12/2019 | 748 |
| Internship | Internship student partner | Internshala | 01/01/2019 | 30/12/2019 | 8 |

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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 |
|--|--------------------|--|---|
| Micro, Small Medium Enterprise | 24/05/2018 | Host Institute JIS Business Incubation Centre Nucleation of new business ideas Nurturing business in their startup phase Promoting and running an active program for new venture creation | 15 |
| Institute of Coal of FRC CCC SB RAS Russian Federation | 26/12/2018 | Development of joint fundamental and applied research Implementation of Joint Educational programs Exchange of scientists, teaching and administrative staff Joint holdings of Seminars, Conferences and exchange of educational scientific material | 14 |

| | | | |
|---|------------|--|----|
| Enterprise Development Institute, Kolkata (EDI) | 30/07/2019 | Student and Faculty Exchange, Visits, Joint and Collaborative Training, Workshop, Seminar Development and Maintenance of Centre of Excellence in various academic and co curricular extra curricular areas | 12 |
|---|------------|--|----|

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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 |
|--|--|
| 269 | 220.54 |

4.1.2 – Details of augmentation in infrastructure facilities during the year

| Facilities | Existing or Newly Added |
|--|-------------------------|
| Campus Area | Existing |
| Class rooms | Existing |
| Laboratories | Existing |
| Seminar Halls | Existing |
| Classrooms with LCD facilities | Existing |
| Classrooms with Wi-Fi OR LAN | Existing |
| Seminar halls with ICT facilities | Existing |
| Video Centre | Newly Added |
| Number of important equipments purchased (Greater than 1-0 lakh) during the current year | Newly Added |
| Value of the equipment purchased during the year (rs. in lakhs) | Newly Added |
| No file uploaded. | |

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 |
|-----------------------------|--|---------|--------------------|
| LIBRARY MANAGEMENT SOFTWARE | Fully | 4.6 | 2017 |

4.2.2 – Library Services

| Library Service Type | Existing | Newly Added | Total |
|----------------------|----------|-------------|-------|
| | | | |

| | | | | | | |
|---------------------------|------|-------|------|------|------|-------|
| Text Books | 4290 | 86448 | 80 | 567 | 4370 | 87015 |
| Reference Books | 1780 | 2000 | 70 | 200 | 1850 | 2200 |
| Journals | Nill | Nill | Nill | Nill | Nill | Nill |
| CD & Video | 1924 | 2400 | 400 | 500 | 2324 | 2900 |
| Weeding (hard & soft) | Nill | Nill | Nill | Nill | Nill | Nill |
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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 |
|---------------------|---|---|-----------------------------|
| DEBASREE MITRA | Informatics and Computing | IEI and TCS iON Digital learning platform | 10/12/2018 |
| Dr. BikramjitSarkar | Informatics and Computing | IEI and TCS iON Digital learning platform | 10/12/2018 |
| Mr.JitChakraborty | Society and Environment | IEI and TCS iON Digital learning platform | 10/12/2018 |
| Dr. Trina Dutta | Society and Environment | IEI and TCS iON Digital learning platform | 10/12/2018 |
| SudiptaSahana | Review of translated content - Bengali for Introduction to Internet of things | SWAYAM NPTEL | 13/06/2019 |
| Rupak Bhattacharjee | Review of translated content - Bengali for Introduction to Research | SWAYAM NPTEL | 13/06/2019 |
| Partha Das | Electrical MachineI(60 Lectures) | NPTEL: English to Bengali Translation | 06/03/2019 |
| Dr. Trina Dutta | Review of translated content - Bengali for Soft Skills Development | SWAYAM NPTEL | 23/12/2019 |
| No file uploaded. | | | |

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

| Type | Total Computers | Computer Lab | Internet | Browsing centers | Computer Centers | Office | Departments | Available Bandwidth (MBPS/GBPS) | Others |
|----------|-----------------|--------------|----------|------------------|------------------|--------|-------------|---------------------------------|--------|
| Existing | 1050 | 14 | 50 | 14 | 0 | 3 | 9 | 50 | 0 |
| Added | 115 | 2 | 50 | 2 | 1 | 0 | 2 | 50 | 0 |
| Total | 1165 | 16 | 100 | 16 | 1 | 3 | 11 | 100 | 0 |

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

100 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 1 2 | https://www.youtube.com/embed/3uI1j9L7XUI |
| DIGITAL STUDIO 1 2 | https://www.youtube.com/embed/vWZzxwHx0OE |

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 academic facilities | Expenditure incurred on maintenance of academic facilities | Assigned budget on physical facilities | Expenditure incurred on maintenance of physical facilities |
|--|--|--|--|
| 160.02 | 144.78 | 8.5 | 6.15 |

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)

The infrastructure pertaining to physical, academic and support facilities in the college is regularly up kept to excel in the wide spectrum grooming of the students and staff. Staff members are deputed to ensure the maintenance of the various facilities of the campus. A suitable budget is allocated every year for the purpose. The various committees meet regularly to monitor the optimum use of infrastructure to fortify the proper ambiance of education. The institute has well established state-of-art laboratories to provide students a practical understanding of the subject through hands-on training. The equipment used for experiments are cleaned and maintained and record of maintenance, calibration, and repairing of sophisticated lab equipment are done by Technical Assistant, Lab Assistants, and Lab Attendants and supervised by faculty and HODs of the concerned departments. The campus also offers facilities such as Cafeteria, Common Room and Gymnasium a dispensary with a doctor for first aid. An eco-friendly environment and a lush green playground for the mental and physical development of students through sports and games. The central library is a valuable resource with a sufficient number of titles and volumes of books for various streams. The library is fully digitized and is open from 8 am to 8 pm. It has computer terminals with internet facility, large reading spaces, Digital Library with the multimedia facility, online Public Access Catalogue, reference books, book bank, circulation of books, e-journals ebooks, digital library question paper, reference book service, current awareness services,

reprography, NDL, NPTEL video lecture, newspaper magazine, print journal, etc. Library facility includes Reading Room, Reference Section, Internet Section, Lending Section, and Membership Section. The requirement list of books come from Department and concerned HoD. A regular update on new additions, return of books to ensure no dues, the proper account of visitors on a daily basis, weeding out of old titles, schedule of issue/ return of books, etc are maintained/resolved by the library committee and oversee the functioning of the library. Computer center is used by various departments to make extensive use of the facility for reading and research. ICT facilities like Hi-end Laptop/PC, Projector, Smart TV, SmartBoard, Sound Systems, WiFi, Wired Lan connection are available along with 1205pc. 50 Mbps (Rail tell Corporation), 50 Mbps (Allianz Broadband) are available bandwidth of internet connection in the Institution (Leased line). Facilities for e-content development such as Media center, Recording facility, Lecture Capturing System (LCS) and Digital Studio are available. The College has 71Classrooms, 10 Smart classroom and 21Tutorial rooms to instill effective and efficient pedagogy. All spacious, airy, well-equipped classrooms and Tutorial rooms kindle a desire in students to learn more. Students are provided with the latest, fast-paced and digital pedagogy that allows the learner-centric, interactive, outcome-based, industry-ready teaching using a wide variety of LMS in the technology-enhanced Smart classrooms to facilitate students to apply knowledge to create or innovate ideas.

<https://jiscollege.ac.in/pdf/jisce-policy.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 Freeship | 159 | 11417000 |
| Financial Support from Other Sources | | | |
| a) National | NSP, UGCNER, Aikyashree, SVMCM ,Oasis-SC/ST/OBC Scholarship, Kanyashree -K2, EKalyan Scholarship, Nabanna Scholarship, Jindal Scholarship | 495 | 10382000 |
| b) International | NIL | Nill | 0 |

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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 |
|---|-----------------------|-----------------------------|-------------------|
| Pseudocode Training | 18/08/2018 | 585 | inhouse |
| Soft Skill Development | 21/08/2018 | 585 | carrer launcher |

| | | | |
|--|------------|-----|--------------------|
| Aptitude Class | | | |
| pre assesement test | 31/07/2018 | 585 | Vista Mind Cocubes |
| HR Enlighten Workshop | 05/02/2018 | 43 | Enlighten |
| Project Management for Infrastructure Real Estate Industries | 17/07/2018 | 20 | ILS network |
| Industry Readiness Program | 13/08/2018 | 30 | In house |
| Carrer connect program | 13/10/2018 | 11 | Erricsson |
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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 |
|---------------------------|---------------------|--|--|--|---------------------------|
| 2019 | Soft Skill Training | 360 | 546 | 71 | 409 |
| 2019 | AICTE PRERANA | 71 | 71 | 11 | 22 |
| 2019 | GATE Coaching | 87 | 87 | 13 | 47 |
| 2019 | CAT Coaching | 30 | 30 | 10 | 19 |
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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 |
|---------------------------|--------------------------------|---|
| 3 | 3 | 7 |

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 |
| Accenture | 125 | 2 | TCS | 44 | 9 |
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5.2.2 – Student progression to higher education in percentage during the year

| Year | Number of | Programme | Department | Name of | Name of |
|------|-----------|-----------|------------|---------|---------|
|------|-----------|-----------|------------|---------|---------|

| | students enrolling into higher education | graduated from | graduated from | institution joined | programme admitted to |
|---------------------------|--|----------------|---|--------------------------------------|-----------------------|
| 2019 | 2 | B.Tech | Biomedical Engineering | Jadavpur university Kolkata | ME |
| 2019 | 1 | B.Tech | Biomedical Engineering | BIRLA GLOBAL UNIVERSITY, BHUBANESWAR | MBA |
| 2019 | 2 | B.Tech | Electronics and Communication Engineering | MAKAUT | MTech |
| 2019 | 1 | B.Tech | ECE | Jadavpur University | ME |
| 2019 | 1 | B.Tech | ECE | JISCE | M Tech |
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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 |
|-------------------|---|
| GATE | 6 |
| Any Other | 3 |
| No file uploaded. | |

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

| Activity | Level | Number of Participants |
|--|-------------------------------|------------------------|
| Musical showcase on 18 th Foundation day | College | 40 |
| Fashion and Glam Hunt event titled ADRIJA | Intra College | 16 |
| JISCEIDOL | College | 102 |
| Short Drama Competition on #ME TOO | College | 42 |
| Annual sports | College | 350 |
| Football tournament | Inter Department | 92 |
| Cricket tournament | Inter Department | 76 |
| JISCE CHALLENGER'S CUP FOOTBALL TOURNAMENT | Inter College | 14 |
| JISCE_ Super league | Inter school | 160 |
| Photo competition Imagery | Inter and Intra college | 100 |
| JISTech Fest | Intra and Inter College level | 560 |
| ALEYAtouch of lens | College | 250 |
| Amar Durga Photography | College | 100 |

| Competition | | |
|---|-------------------------|----|
| Poster Competition on "Global Warming". | College | 70 |
| Remembering Tagore | College | 40 |
| WALL MAGAZINE COMPETITION | College | 24 |
| POETRY COMPETITION | College | 78 |
| SHORTFILMCOMPETITION | College | 40 |
| TAGSLOGAN COMPETITION | Inter and Intra College | 23 |
| Mathematical Quiz | College | 96 |
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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/ International | Number of awards for Sports | Number of awards for Cultural | Student ID number | Name of the student |
|-------------------|--|-------------------------|-----------------------------|-------------------------------|-------------------------------|----------------------------|
| 2019 | Winner Distric Level Quiz Competition organized by CEOWB | National | Nil | 1 | JIS/2016 /0203 JIS/ 2016/0591 | Swastik Barat Shalini Shaw |
| 2019 | 2nd in kata | National | 1 | Nil | JIS/2016 /0576 | Soumi Majumdar |
| 2019 | 3rd in Kumite | National | 1 | Nil | JIS/2016 /0576 | Soumi Majumdar |
| 2019 | 1st in Kumite | National | 1 | Nil | JIS/2016 /0576 | Soumi Majumdar |
| No file uploaded. | | | | | | |

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

The essence of the success story of any educational institute lies in the success of its students. An enthusiastic student fraternity coupled with an able student administration forms the base for scaling great heights. We at the Student Affairs Council of JIS College of Engineering look to channelize the energy and vigour of our student community and give voice to their opinion. It is our endeavour to faithfully represent the best interests of the student community and strive to create a vibrant atmosphere which will give rise to not only better academicians but also to better, wellrounded personalities. The main role of a Student Council is to promote the interests of the school and the involvement of students in the affairs of the school, in cooperation with the board, parents and teachers. Some general objectives could include: • To enhance communication between students, management, staff and parents • To promote an environment conducive to educational and personal development • To promote friendship and respect among pupils • To support the management and staff in the development of the school • To represent the views of the students on matters of general concern to them Student Council consists of three student

representatives. Under the council there 11 clubs all clubs are mentored by teachers. Each club has individual working committee of Students including President, Secretary and Joint Secretary

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Yes. . 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:

6180

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

240000

5.4.4 – Meetings/activities organized by Alumni Association :

- Interactive Session between Alumni Students
- Seminar on Recent Trends in IT delivered by Alumni
- A seminar on Softskill delivered by Alumni
- Tree Plantation
- Blood Donation Camp
- Alumni Meet

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)

• Student Admission. • Student Attendance. • Online payment of fees for the students. • Online Learning Management and Campus Management • Digitized online library management system. • Evaluation Examination Procedure. • Online results announcement The Principal provides leadership for the academic administration and creates an effective environment conducive for learning. He ensures that quality education is imparted to the students that foster the holistic development of the students. He also ensures allround development of the Institute and achievement of strategic plans of the institution. Two faculty members (on rotation basis) and student representatives are invited to the BOG meetings and their view obtained and duly considered. Governing body meets regularly and is conducted in a transparent manner. The BOG members directly participate in various activities of the Institution. The minutes of the BOG, Academic Council and Annual Report are published on college website. The relevant information is shared with the employees through various meetings/circulars. The finance committee appraises the BOG pertaining to finances of the college. Budgetary provisions for the departments are made based on the requirements/inputs provided by the HOD. The Institution also publishes audited financial statements on its website for public information. The institution has in place several Committees / SubCommittees to continuously monitor/guide the academic and administrative activities. The committees comprise of key stakeholders including government, administrators, faculty, staff, industry, employer, alumni, parent and students. All the Head of the Departments are members of the Academic Council and College Council where major Academic/Administrative decisions are taken. More academic power is delegated to the Heads of the Departments. Placement Officer, Director, IQAC, Hostel Secretaries, Wardens, Controller of Examination etc. They are also part of various decision making administrative bodies. Senior faculty members are made

lead various Academic/Administrative committees.

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 |
|----------------------------|--|
| Teaching and Learning | Practicing Outcome Based Education (OBE) system of Education. All the faculty of the institution are trained in the contemporary and innovative methods of teaching and encouraged to attend various programmes on pedagogy. A new advanced digital teaching learning process Flipped Learning has been introduced during the last academic year. In flipped learning the less cognitive tasks like remembering and understanding will be done at home and complex cognitive tasks like analyzing, evaluating and creating are done at classroom. The flipped learning methodology converts a teacher centric class to a student centric class where the group learning space is reduced to individual learning space. |
| Examination and Evaluation | The Controller of Examination organises 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 examination system is now one step ahead with compare to traditional examination system. The entire evaluation process is digitized and made it online. The teacher can evaluate the exam papers at anytime from 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 is committed to research in the areas of science, engineering and technology and has nurtured the centres of excellence, instrumentation centre, high computing infrastructure exclusively for research and |

development. The vibrant research and development activity in the college has resulted in receiving grants from organisations like DST, AICTE, UGC, DSTFIST, etc. and also a few industries. Faculty are primarily involved in research projects that are beneficial to the society.

Human Resource Management

Delegations of responsibility - some of the key responsibility areas are identified and delegated at different levels -Principal, VicePrincipal, Registrar, Deans, CoE, HODs
Participatory Management - Subcommittee for different functional activities comprises representatives of teachers, nonteaching staff and students. It includes the involvement of the staff for organizing different programmes of the college. The Institutes gives performance recognition by way of monetary incentives, like, sponsoring registration fees for the faculty members whose paper have been accepted at Seminars and Conferences (including International Conferences) providing the Ph.D registration fees to the candidates

Industry Interaction / Collaboration

: Industry Institute Interaction is being established in the institution from a long time. Institute has interaction and collaboration with reputed research organizations, industries and institutions in India and abroad. It has more than 35 MOUs and also has several interdisciplinary and multidisciplinary projects in collaboration with other reputed industry and organizations. The Institute student and faculty exchange programmes in collaboration with Indian and Foreign Universities/Institutions.

Admission of Students

The Institute has a wellorganized 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).

Curriculum Development

A regular assessment of the curriculum is done through the feedback from the students, alumni, subject experts, employers and experts from the industry. The suggestions received from them are reviewed by the Department Committees (DCs). Relevant suggestions are considered for inclusion in the

curriculum. In the process of developing the curriculum, care is taken to ensure adherence to norms and guidelines prescribed the AICTE and the UGC. New project based curriculum as per the latest guideline of AICTE has been developed with the specified reduced credit limit. In new curriculum choice based elective papers has been proposed both in departmental and open elective papers. The prescribed content of syllabus will have the topics that are covered in various competitive exams like GATE, IES, UPSC/ KPSC etc.

Library, ICT and Physical Infrastructure / Instrumentation

? Library, ICT and Physical Infrastructure / Instrumentation: Institute Central Library has nearly 88000 books and 2000 books were added during 20182019 period with 600 eBooks and more than 100 ejournals. Augmented the LED/LCD Projectors, provided a state of the art video conferencing facility, increased the capacity of WiFi facility from 50 mbps to 100 mbps. Effective uses of Digital Library, Spoken Tutorial from IIT, Bombay, QEEE Programme, NPTEL

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

| E-governance area | Details |
|-------------------------------|--|
| Planning and Development | The IQAC along with AC members and all HoDs are responsible for further planning and development of the institutes and the resolutions are circulated and placed at college webpage. |
| Administration | The administration of office dealing with students, faculty, admissions are fully computerized. |
| Finance and Accounts | All the salaries of teaching and non teaching staff are computerized and remittances are online. All purchases leading to accounts are digitized. |
| Student Admission and Support | The admission of students is based on online data furnished by the WBJEE admissions committee. All the students allotted to college furnish admission data in the online application form. The course registrations, including professional and open electives are done online before the last date. |
| Examination | Students registration form for examinations are online. The admit card is generated by the students through online exam management system. Internal |

exam results are put up in college website for access to students and parents under password control End exam results are available in the college website.

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/ workshop attended for which financial support provided | Name of the professional body for which membership fee is provided | Amount of support |
|------|---|--|--|-------------------|
| 2018 | Dr. Malay R Dave | Conducted Workshop at AIT Bangkok | nil | 25000 |
| 2018 | Mr. Sudipta Sahana | Training Programme at AIT Bangkok | nil | 35000 |
| 2019 | Mr. Debashis Sanki and Mr. Sudipta Sahana | UBA inauguration workshop | nil | 22000 |
| 2019 | Ms. Swati Pal | Training Programme at AIT Bangkok | nil | 40000 |

[View File](#)

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

| Year | Title of the professional development programme organised for teaching staff | Title of the administrative training programme organised for non-teaching staff | From date | To Date | Number of participants (Teaching staff) | Number of participants (non-teaching staff) |
|------|--|---|------------|------------|---|---|
| 2018 | FDP on flipped learning | SDP on effective use of Ms Excell | 02/07/2018 | 04/07/2018 | 203 | Nil |
| 2019 | FDP on flipped learning | SDP on Professional Ethics | 24/01/2019 | 25/01/2019 | 203 | Nil |

No file uploaded.

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 |
|---|---------------------------------|------------|------------|----------|
| NASSCOM training on Product Design | 4 | 02/07/2018 | 07/07/2018 | 6 |

| | | | | |
|---|---|------------|------------|---|
| Training on OUTCOME BASED EDUCATION PROCESS OF ACCREDITATION | 2 | 19/07/2018 | 21/07/2018 | 3 |
| Structural Engineering Convention | 1 | 16/11/2018 | 21/11/2018 | 6 |
| INFOCOM 2018 | 1 | 06/12/2018 | 08/12/2018 | 3 |
| Workshop on Digital Teaching Learning at MAKAUT (Saltlake Campus Haringhata Campus) | 1 | 22/04/2019 | 24/04/2019 | 2 |
| Use of Digital Pedagogy in teaching learning process | 6 | 02/05/2019 | 02/05/2019 | 1 |
| FDP 2019 under APAI supported by MAKAUT | 1 | 15/01/2019 | 19/01/2019 | 5 |
| STTP on Environmental Crisis and Sustainable Development | 1 | 02/09/2019 | 07/09/2019 | 6 |
| One day workshop on SCADA application in Power System | 1 | 24/04/2019 | 24/04/2019 | 1 |
| FDP 3days under AICTE on induction Program at Sister Nibedita University | 1 | 18/07/2019 | 20/07/2019 | 3 |
| FDP Outcome Based Education at GNIT | 1 | 19/07/2019 | 21/07/2019 | 3 |
| Workshop on Effectiveness of Mentoring System | 2 | 04/01/2019 | 04/01/2019 | 1 |
| FDP Student Induction | 4 | 16/07/2018 | 18/07/2018 | 3 |

| Program by AICTE | | | | |
|--|----|------------|------------|---|
| AutoCAD and Fusion 360 Under NASCOM | 4 | 02/07/2018 | 06/07/2018 | 6 |
| Workshop on Outcome based Education Accreditation System | 4 | 19/07/2018 | 21/07/2018 | 3 |
| 1 Day International Workshop on Flipped Learning | 13 | 02/10/2018 | 02/10/2018 | 1 |
| FDP on Flipped Learning | 13 | 21/06/2019 | 21/06/2019 | 1 |
| National workshop on BioInformatics from Sequence Structural Perspective | 1 | 11/03/2019 | 12/03/2019 | 2 |
| 6th International Doctoral Symposium on Applied Computation Security Systems (ACSS 2019) | 1 | 12/03/2019 | 13/03/2019 | 2 |
| Two Days Workshop on Smart Publishing | 1 | 17/01/2019 | 18/01/2019 | 2 |
| 2ND National Leadership Conference for first Generation Entrepreneurs | 1 | 12/12/2019 | 13/12/2019 | 2 |
| Global Blockchain Congress 2018 | 1 | 18/12/2018 | 19/12/2018 | 2 |
| Training on Outcome Based Education and Process of Accreditation at GNIT | 3 | 19/07/2019 | 21/11/2019 | 3 |
| Analyst | 2 | 09/07/2019 | 14/07/2019 | 6 |

| | | | | |
|---|----|------------|------------|---|
| Application Security: NASSCOM Training at GNIT | | | | |
| One Week Faculty Development Program On Higher Education Faculty Career Orientation and Advancement, (CEGR Certified Faculty) | 16 | 18/06/2018 | 22/06/2018 | 6 |
| No file uploaded. | | | | |

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

| Teaching | | Non-teaching | |
|-----------|-----------|--------------|-----------|
| Permanent | Full Time | Permanent | Full Time |
| 13 | 13 | 2 | 2 |

6.3.5 – Welfare schemes for

| Teaching | Non-teaching | Students |
|---|---|---|
| Medical Facility , Group Insurance, Waving of Tuition fees for wards, Personal Loan | Medical Facility , Group Insurance, Waving of Tuition fees for wards, Personal Loan | Tuition Fee Waiver, Group Insurance, Half -Full Freeship, Fee waiver from parent university on account of death of earning member of the family |

6.4 – Financial Management and Resource Mobilization

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

Yes. Institute organizes auditing quarterly basis internally and annually external basis by audit firm. The Institute has a mechanism for internal and external audit to ensure financial compliance. The institutional accounts are regularly audited. The observation of the auditors if any are immediately corrected / rectified. Internal Audit: The internal audit is an ongoing continuous process. Qualified Internal Auditors from external resources have been permanently appointed and a team of staff under them do a thorough quarterly basis check and verification of all payments, receipts journals vouchers of the transactions cash books, ledger account review that are carried out in each financial year on an accrual basis system. External Audit: The external auditor appointed by the college performs audit of the financial statements of the college. The financial records are audited by qualified chartered accountants after the end of each fiscal year is certified income expenditures, balance sheet and prepared notes to accounts are certified. Statutory financial audit of Institute is conducted in two sessions, first in the month of October November/ December for period of six months starting from 1st April to September and second in the month of May/ June for the period from October to March. Finalization of account is completed in June and audited statement is prepared in July. The audited statement is duly signed by Principal, Chairman and Chartered Accountant. Budgetary provisions for the

departments are made based on the requirements/inputs provided by the HOD. The departments propose their budgetary requirement for the particular year. In the capacity of the Member Secretary of the Board of Governors, the Principal puts forth proposals on finance related matters and seeks approval and ensures its apt implementation. Annual budget for institute is prepared at the beginning of financial year, considering potential income and expenditures (recurring and nonrecurring) involved for the year.

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 |
|--|-------------------------------|--|
| JIS Group | 6100000 | International Conference, Faculty International Travel, Seminar, Tech Fest etc |
| No file uploaded. | | |

6.4.3 – Total corpus fund generated

No Data Entered/Not Applicable !!!

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 | Expert from IISc, Bangalore. | Yes | JIS GROUP |
| Administrative | Yes | Nil | Yes | JIS GROUP |

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

1. Regular feedback for Curriculum revision, Industry readiness. 2. IQAC plan to incorporate more views from the parent in terms of their wards' education. 3. Appraisal / indirect assessment from the Guardian are proposed by IQAC.

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

1. Sr. Admin staffs are sent in different state for skill upgradation. 2. Technical staffs are provided with SDT by NASSCOM. 3. SDP by British Council. 4. Administrative and technical staffs were provided on digital marketing and modern office management

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

1. Digital transformation in pedagogy 2. Digital transformation in evaluation system 3. Institutional Innovation Council under MHRD INNOVATION CELL 4. Implementation of FIST project 5. Student and faculty exchange with MIPT Russia and AIT Bangkok 6. Implementation of CBCS Curriculam 7. Promotion of start up Eco system

6.5.5 – Internal Quality Assurance System Details

| | |
|--|-----|
| a) Submission of Data for AISHE portal | Yes |
| b) Participation in NIRF | Yes |
| c) ISO certification | No |

d)NBA or any other quality audit

Yes

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 |
|-------------------|--|-------------------------|---------------|-------------|------------------------|
| 2019 | Quality Assurance on Digital Pedagogy | 24/01/2019 | 24/01/2019 | 25/01/2019 | 203 |
| 2019 | IPR Awareness Programme | 10/01/2019 | 10/01/2019 | 10/01/2019 | 250 |
| 2018 | Monitoring and assessment of Flipped Learning methodology and Mentorship Programme | 02/07/2018 | 02/07/2018 | 02/07/2018 | 203 |
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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 |
| Gender Equality | 05/06/2019 | 12/06/2019 | 85 | 38 |

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

The 5 KWp 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 equipments used in the project. A simulation model has been made using PVSYST, a SPV simulation software for loss analysis.

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.

7.1.3 – Differently abled (Divyangjan) friendliness

| Item facilities | Yes/No | Number of beneficiaries |
|-----------------|--------|-------------------------|
|-----------------|--------|-------------------------|

| | | |
|--|-----|-----|
| Physical facilities | Yes | 5 |
| Provision for lift | Yes | 5 |
| Ramp/Rails | Yes | 5 |
| Braille Software/facilities | No | Nil |
| Rest Rooms | Yes | 5 |
| Scribes for examination | Yes | 5 |
| Special skill development for differently abled students | Yes | 5 |

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 |
|-------------------|--|--|------------|----------|--|-------------------------------------|--|
| 2019 | 1 | 1 | 11/07/2018 | 1 | Awareness about the potentiality of the micro and small scale business in the locality | Development of Local Entrepreneur . | 81 |
| No file uploaded. | | | | | | | |

7.1.5 – Human Values and Professional Ethics

| Title | Date of publication | Follow up(max 100 words) |
|--------------------|---------------------|--------------------------|
| Students Hand Book | 01/08/2018 | Regular Basis |

7.1.6 – Activities conducted for promotion of universal Values and Ethics

| Activity | Duration From | Duration To | Number of participants |
|-----------------------|---------------|-------------|------------------------|
| Swachh Bharat Abhiyan | 01/10/2019 | 02/10/2019 | 280 |
| Induction Program | 02/08/2019 | 22/08/2019 | 534 |
| No file uploaded. | | | |

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

OnGrid Solar Power Plant: The 5 KWp Rooftop 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 are recorded and analysis is on the 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, an SPV simulation software to get a loss analysis. Solar Tree Solar Streetlights: Tree proves to be the most beneficial source of energy. The solar tree blends art and solar energy technology in a sculptural expression. Solar trees are both artistic and functional clean energy machines. The term solar tree has been used to describe a variety of structures incorporating solar energy technology on a single pillar (like a tree trunk). Solar Tree implementation as an alternate source of energy in urban cities. The installation of large solar collectors requires a very big space which is the main problem associated with tapping solar energy. This problem can be avoided by installing a Solar Tree requiring less space instead of a no of solar panels. To satisfy pressing environmental and social demands for urban lighting solar tree opens new prospects. Solid Waste Management: All the waste from the JIS College campus is collected into waste bins marked as biodegradable and nonbiodegradable. Then all those wastes are collected into two vats separately by the cleaners. The waste then removed at a regular interval by Kalyani Municipality. Biodegradable materials such as fruit peels and tea and coffee grains are converted into manure in compost pits. Nonbiodegradable materials such as paper and plastic waste are segregated and resold by the college. Our environment and education club transfer the message "Reduce, reuse, and recycle" successfully especially at each semester's beginning and end with the active participation of students organizing special events, and involving local charitable organizations. Biogas Generation: This is floating type biogas generator consist of two PVC water buckets of 1000lt and 500lt capacity respectively (one bigger than the other), with the top of each bucket is cut open so that the smaller one can fit into the bigger bucket and move like a "telescope". The bigger bucket (or drum) serves as a digester, and the smaller, placed upside down in the bigger one serves as the gasholder. The inlet flexible pipe, a bit longer than the height of the tank, is fitted at the bottom side of the bigger tank. The effluent outlet is fitted to the upper part of the bigger tank and determines the maximum level of matter in the tank. The gas outlet is fitted to the smaller inne

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

? Modern innovative teachinglearning method (Flipped Learning and Blended Learning): The Institution made a paradigm shift in the teachinglearning process by introducing "Flipped Learning". JISCE is the pioneer institution in India to initiate full scale Flip Learning in it's Engineering education. <http://www.jiscollege.ac.in/pdf/bestpractices.pdf> ? Implementation of Online Learning Management System(LMS): The Institute has successfully implemented the online platform for creation of routine, attendance monitoring and repository of digital contents and questions. <https://jis.creatrixcampus.com/> Centre for Innovation, Incubation and entrepreneurship (IIPC) is established to facilitate Innovation through Research and collaboration for translating domain expertise into products or technologies. The Centre aims at fostering entrepreneurial spirit, promote startups by providing appropriate incubation facilities, offer consultancy services and improve industry institute interaction. It 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. To 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. Become a hub for entrepreneurial activities across the state. Build strong network of

Mentors/Advisors across the verticals. Provide necessary infrastructure support to incubate to progress in their ideas. Facilitate interaction between industry, institution and funding agencies to transform concept to commercialization Leverage schemes of the Government bodies towards promoting entrepreneurship. Training the inhouse faculties for the hands on in the latest software 3D Experience for the research work and subsequent product development.

It will provide relevant guidance and required experience in training the research scholars and students who are carrying out their projects. It covers a wide area of field of study like Mechatronics, CAD/CAD, CAE, Systems Engineering, and Product Life Cycle Management. Effective Implementation of Outcomes Based Education: Since 2014, India is recognized as a signatory of the Washington Accord, and students graduating from accredited programs of Tier I Institutions (Autonomous Institutions) shall have global recognition. Since, our institution has academic autonomy, focused efforts were in place towards ensuring graduating engineers from all programs demonstrate expected skill and competency leading to their global recognition. This task towards global recognition of our graduates became easy, as the expected global attributes were embedded through the Program Outcomes (POs), defined by the National Board of Accreditation (NBA). Hence, all activities on campus (academic, activities beyond curriculum, cocurricular and extracurricular) were focused on developing the POs leading to an effective implementation of Outcomes Based Education (OBE), as it would then lead to global recognition of our graduates. India was a provisional member of the Washington Accord, and in the process of attempting to become a signatory. This process required the need to embrace OBE in the true sense. Accordingly, at the National Level, the parameters for accreditation were redefined, and were aligned to meet the minimum expected global standards. It is to be recalled that among the initial accreditation visits conducted by NBA, there included a team of International observers, to oversee the accreditation processes. In this context, our Institution had the opportunity to represent a sample institution in the Private Engineering College category. It is with pride we would like to mention that the first accreditation visit for five of our Undergraduate engineering programs in the Tier I format (to assess effective implementation of OBE), had International observers, with two of the five UG programs getting full accreditation. This initiative by the Institution led to innovations in the class room by teachers in the delivery methods, innovation by faculty in assessment tools and hence, contributing to the overall development of the student learning, with conscious efforts in developing the expected program outcomes defined by NBA, and hence ensuring our graduates have global recognition. This improved competency of the students resulted in enhanced student performance both when on campus and after graduation as our alumni. We would like to add that this journey of embracing OBE was a collective effort by all stakeholders, both direct and indirect. The initial learning was from the series of training programs conducted by NBA. This was then followed by series of brain storming sessions to comprehend and implement the processes of OBE. The academic leaders were able to perform with unconditional support from management. To conclude, there were no constraints or hurdles in this path of adopting OBE. In addition, all academic leaders have willingly shared this journey and learning experience in various platforms, to help other institutions of higher education to grow and contribute to the progress of the nation. Few are listed below: Conducted various Faculty development programs in the domain of OBE (one of the FDP was supported by NAAC), Uploaded the OBE content on the college website, Delivered several invited talks on OBE, Delivered webinars on OBE, Published papers in the domain of OBE in National and International forums (WOSA by NBA).

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

<https://jiscollege.ac.in/pdf/best-practices.pdf>

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

Modern innovative teaching learning method (Flipped Learning and Blended Learning): The Institution made a paradigm shift in teaching - learning process by introducing "Flipped Learning". JISCE is the pioneer institution in India to initiate full scale Flip Learning in it's Engineering education. It is endorsed by World Bank Group. • Associated and signed agreement with 16 reputed Universities/Institutes across the globe for academic excellence. • Launched JIS IndoRussian Centre of Excellence at JISCE campus. • Having 14 Nos. Fully equipped Flipped Classrooms. • Only Engineering Institution in Eastern Region having Digital Studio.

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 fine restructuring (more electives) if required
2. Extending the flip learning infrastructure (Studio 2 7 more flipped class room)
3. Optimum utilization of digital studio 1
4. Academic Audits for various departments as per NBA TierI
5. Refine the students' feedback handling procedure
6. Examination Reforms Complete Digital Evaluation Process
7. Administration Reforms Through didital platform
8. Enhance research activity and SCI International journal publications
9. Application for Patent Publication in Thomson Reuters
10. To promote collaborative research through MOU'S.
11. Enhance consultancy services
12. Applied for being PhD guide to the affiliating University
13. Creation of incubation centre(s)
14. Apply for NBA accreditation for Mechanical Engineering
15. Restriction on plastic usage inside the campus
16. Clean Green Campus