# <u>YEARLY STATUS REPORT - 2020-2021</u>

| Part A | |
|---|---|
| Data of the Institution | |
| 1.Name of the Institution | **JIS COLLEGE OF ENGINEERING** |
| • Name of the Head of the institution | **Prof. (Dr.) Partha Sarkar** |
| • Designation | **Principal** |
| • Does the institution function from its own campus? | **Yes** |
| • Phone No. of the Principal | **03325808560** |
| • Alternate phone No. | **03325822138** |
| • Mobile No. (Principal) | **9330905758** |
| • Registered e-mail ID (Principal) | **principal_jisce@jisgroup.org** |
| • Address | **Block-A, Phase-III** |

| | |
|---|---|
| • City/Town | **Kalyani** |
| • State/UT | **West Bengal** |
| • Pin Code | **741235** |
| **2.Institutional status** | |
| • Autonomous Status (Provide the date of conferment of Autonomy) | **31/10/2011** |
| • Type of Institution | **Co-education** |
| • Location | **Urban** |
| • Financial Status | **Self-financing** |
| • Name of the IQAC Co-ordinator/Director | **Dr. Sudipta Sahana** |
| • Phone No. | **03325822138** |
| • Mobile No: | **9474733974** |
| • IQAC e-mail ID | **iqac@jiscollege.ac.in** |
| **3.Website address (Web link of the AQAR (Previous Academic Year)** | **https://www.jiscollege.ac.in/pdf/jisceaqar19-20.pdf** |
| **4.Was the Academic Calendar prepared for that year?** | **Yes** |
| • if yes, whether it is uploaded in the Institutional website Web link: | **https://www.jiscollege.ac.in/academic-calendar.php** |

## 5.Accreditation Details

| Cycle | Grade | CGPA | Year of Accreditation | Validity from | Validity to |
|-------|-------|------|-----------------------|---------------|-------------|
| Cycle 1 | B | 3.02 | 2009 | 15/06/2009 | 14/06/2014 |
| Cycle 2 | A | 3.02 | 2015 | 03/03/2015 | 07/04/2022 |

## 6.Date of Establishment of IQAC

| | 26/06/2010 |
|---|---|

## 7.Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?

| Institution/ Department/Faculty/School | Scheme | Funding Agency | Year of Award with Duration | Amount |
|---|---|---|---|---|
| Electrical Engineering | NBA | AICTE | 04/05/2007 | 0 |
| Electronics & Communication Engineering | NBA | AICTE | 04/05/2007 | 0 |
| Computer Science & Engineering | NBA | AICTE | 04/05/2007 | 0 |
| Electronics & Instuementation Engineering | NBA | AICTE | 10/02/2009 | 0 |
| Information Technology | NBA | AICTE | 10/02/2009 | 0 |
| Biomedical Engineering | NBA | AICTE | 21/06/2010 | 0 |
| Electrical Engineering | NBA | AICTE | 04/01/2013 | 0 |
| Electronics & Communication Engineering | NBA | AICTE | 04/01/2013 | 0 |
| Computer Science & Engineering | NBA | AICTE | 04/01/2013 | 0 |
| M.Tech in EDPS | NBA | AICTE | 04/01/2013 | 0 |

| M. Tech in MCNT | NBA | | AICTE | 04/01/2013 | 0 |
|---|---|---|---|---|---|
| Electronics & Communication Engineering | NBA | | AICTE | 01/07/2017 | 0 |
| Electrical Engineering | NBA | | AICTE | 01/07/2017 | 0 |
| Mechanical Engineering | NBA | | AICTE | 01/07/2019 | 0 |
| JIS College of Engineering | Recognition of College under section 2(f) of UGC Act, 1956 | | UGC | 16/06/2011 | 0 |
| JIS College of Engineering | Recognition of College under section 12 (B) of UGC Act, 1956 | | UGC | 05/12/2011 | 0 |
| JIS College of Engineering | Fresh Autonomous Status | | UGC | 31/10/2011 | 0 |
| JIS College of Engineering | Extension of Autonomous Status | | UGC | 08/06/2017 | 0 |
| JIS College of Engineering | TEQIP II | | MHRD | 04/06/2012 | 60000000 |
| JIS College of Engineering | NIRF | | MHRD | 11/06/2020 | 0 |
| JIS College of Engineering | First Flipped Institute in India in Digital Pedagogy | | World Bank | 10/09/2019 | 215000 |
| JIS College of Engineering | DST FIST | | DST, Govt. Of India | 16/01/2018 | 6000000 |

## 8.Provide details regarding the composition of the IQAC:

| - Upload the latest notification regarding the composition of the IQAC by the HEI | **View File** |
|---|---|

## 9.No. of IQAC meetings held during the year   | 4

| - Were the minutes of IQAC meeting(s) and compliance | Yes |
|---|---|

| | |
|---|---|
| to the decisions taken uploaded on the institutional website? | |
| **10. Did IQAC receive funding from any funding agency to support its activities during the year?** | **No** |

**11. Significant contributions made by IQAC during the current year (maximum five bullets)**

1. Successfully participated in NIRF

2. Submission of SSR and DVV Clarification

3. Online repository for all courses including lesson wise video lecture

4. Full functional implementation of Digital Pedagogy through online platform

5. Successfully participated in ARIIA

**12. Plan of action chalked out by IQAC at the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year:**

| Plan of Action | Achievements/Outcomes |
|---|---|
| Opening of new programmes - Agricultural Engineering, Master of Computer Application | New programme started in AY 2021-2022 |
| To achieve ISO 9001:2015 certification | Received Certificate of registration |
| Full functional implemention of Digital Pedagogy through online platform during pandemic time | Achieved the target outcome for the benifit of student fraternity |
| Execution of Digital Pedagogy completely in online mode | Executed towards the benefit of student fraternity |
| Regular Academic and Administrative Audit by internal and external experts | Conducted audit as per NBA Tier-I guideline |
| Mentoring towards conduction of two International Conferences | Successfully Conducted |
| Active Innovation Ecosystem | Published 32 IPRs and crated 1 Startup |

| | |
|---|---|
| **13. Was the AQAR placed before the statutory body?** | **Yes** |

- Name of the statutory body

| Name of the statutory body | Date of meeting(s) |
|---|---|
| Board of Governors | 24/12/2021 |

**14.Was the institutional data submitted to AISHE ?** | **Yes**

- Year

| Year | Date of Submission |
|---|---|
| 27/12/2021 | 27/12/2021 |

## 15.Multidisciplinary / interdisciplinary

The institution plans to generate a stimulating academic environment for interdisciplinary higher learning and imparting high degree of professional skills in rapidly developing interdisciplinary domains. In tune with the NEP2020 and AICTE guidelines in 2021, the institution has integrated a variety of humanities and science courses with STEM in its revised curriculum for all engineering programs running in the institute. The institution continues to offer flexible and innovative curricula that includes credit-based courses and projects in the areas of community engagement and service, environmental education, and value-based towards the attainment of a holistic and multidisciplinary education. The institution has always encouraged interdisciplinary project groups with students and guides from various programs to engage in more multidisciplinary research and find solutions to society's most pressing issues and challenges.

## 16.Academic bank of credits (ABC):

Planning regarding Academic bank of credits is yet to be done from the institution. However, The institute utilizes its privilege of Curriculum and syllabus design in regular intervals as per the changing industry needs which results in the incorporation of modern interdisciplinary subjects under careful guidance of academic and industry experts. JIS College of Engineering has been recognized as the first flipped learning institute in INDIA by the MHRD cell. The institute is following this unique pedagogical approach under the approved framework with an appropriate selection of textbook, reading materials, assignments and assessments techniques. In view of NEP 2020, the institution has implemented carefully designed MOOCS basket to earn ABC from MOOCS courses offered by SWAYAM portal.

## 17. Skill development:

Various courses on skilling have been introduced in the latest curriculum throughout the complete duration of programs at various stages. In every semester break or early opening of a new semester, 'Beyond Curriculum Trainings' on modern and interdisciplinary courses are provided in online mode and/or distance mode. In the view of NEP 2020, the institute has focused on building innovation skill within the students by incorporating mandatory courses like 'Intellectual Property Right' and 'Entrepreneurship & Innovation Skill' in all of the program curriculums. Along with that, institutional innovation cell and Entrepreneurship Development cell plays a key role in improvising the student efforts towards multidisciplinary projects, creation of models, participation in Hackathons, Patent application to publication and granting of the innovative ideas.

The institute is providing Value-based education to inculcate positivity amongst the learner that include the development of humanistic, ethical, Constitutional, and universal human values by incorporating mandatory courses in the program curriculum like, 'Gender Culture and Development', 'Universal Human Values 2: Understanding Harmony', 'Constitution of India', 'Essence of Indian Knowledge Tradition' etc. The institute is also providing various life skills to its students by the incorporation of mandatory courses like 'Environmental Science' and mandatory activities in varying semesters like 'NSS/ Physical Activities / Meditation &Yoga / Photography/ Nature Club', 'Learning an Art Form [vocal or instrumental, dance, painting, clay modeling, etc.]', 'Environmental Protection Initiatives' etc.

## 18. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)

The institute has integrated the course 'Essence of Indian Knowledge Tradition' in its latest curriculum for all undergraduate programs. The course is currently being taken in offline mode where students are encouraged to undergo various online contents wherever applicable. Faculties are encouraged to communicate both in English as well as national or local languages conducive to the students. The required skills are being reviewed during recruitment process.

## 19. Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):

To improve teaching learning process and to keep an eye on the learning outcomes, the IQAC employed Outcome based Education (OBE) and planned continuous internal assessment strategies for monitoring the POs and PSOs. Each department of the institute has prepared course outcomes, programme specific outcomes and programme outcomes. The IQAC has prepared academic policy which includes policies for conduction of theory courses, practical courses, continuous evaluation, and monitoring of academics. The plans for attainment of COs, POs and

PSOs are prepared and communicated to teachers for implementation.

The institution is dedicated to adopting the learner centric approach regarding teaching learning progression and has designed the policy to assess and evaluate it in regular intervals. It alaso offers support and guidance to the faculty regarding this through rigorous faculty development trainings. To achieve learning outcomes, the IQAC periodically analyses teaching learning process and recommends regular development, upgradation and addition of the necessary teaching methodology, techniques, equipment and infrastructure. In the continuous pursuit of quality improvement in teaching learning system and academic digitization, a radical transformation was made in the existing class rooms into smart digital class rooms for practicing student centric flipped learning system.

## 20.Distance education/online education:

The institute is currently running all of its courses in physical mode. However, the practice practice of flipped learning involves digital content sharing in online platforms which encourages anytime anywhere learning.The collaboration of the institute with the various foreign institute and universities over the past few years, it was projected that there was a need for introducing the usage of new technology for teaching-learning process. The practice of flipped learning was possible due to marvelous infrastructure of digital smart classrooms in the campus which equipped with ICT tools and smart digital boards for advanced real-time understanding of courses towards higher order learning requirements as per blooms taxonomy.

The institute encourages blended learning in the ubiquitous digital classrooms where teachers have full authority to design their lesion and session plans in blended mode including conventional classes for concept building, tutorials for problem practice as well as use of innovative teaching learning pedagogies like flipped learning for complete learning and industry ready workforce building.

# Extended Profile

## 1.Programme

| 1.1 <br><br> Number of programmes offered during the year: | 12 |
|---|---|

| File Description | Documents |
|---|---|

| Institutional Data in Prescribed Format | [View File](#) |
|---|---|

## 2.Student

| 2.1 <br><br> Total number of students during the year: | 2524 |
|---|---|

| File Description | Documents |
|---|---|
| Institutional data in Prescribed format | No File Uploaded |

| 2.2 <br><br> Number of outgoing / final year students during the year: | 566 |
|---|---|

| File Description | Documents |
|---|---|
| Institutional Data in Prescribed Format | No File Uploaded |

| 2.3 <br><br> Number of students who appeared for the examinations conducted by the institution during the year: | 2524 |
|---|---|

| File Description | Documents |
|---|---|
| Institutional Data in Prescribed Format | No File Uploaded |

## 3.Academic

| 3.1 <br><br> Number of courses in all programmes during the year: | 2330 |
|---|---|

| File Description | Documents |
|---|---|
| Institutional Data in Prescribed Format | [View File](#) |

| 3.2 <br><br> Number of full-time teachers during the year: | 212 |
|---|---|

| File Description | Documents |
|---|---|
| Institutional Data in Prescribed Format | View File |

| | |
|---|---|
| 3.3<br><br>Number of sanctioned posts for the year: | 212 |

### 4.Institution

| | |
|---|---|
| 4.1<br><br>Number of seats earmarked for reserved categories as per GOI/State Government during the year: | 352 |
| 4.2<br><br>Total number of Classrooms and Seminar halls | 88 |
| 4.3<br><br>Total number of computers on campus for academic purposes | 720 |
| 4.4<br><br>Total expenditure, excluding salary, during the year (INR in Lakhs): | 262.21919 |

# Part B

## CURRICULAR ASPECTS

### 1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

Growth of Engineering Skill, Leadership Capability and Domain Specific Knowledge development among students are the main criteria of curriculum design. This process is enhanced periodically by addressing Local, National, Regional and Global Developmental requirements in addition to consonance with the AICTE Model Curriculum. It is further enriched by including specific courses as per extensive review of available literature on developmental

needs. Inclusion of Academic and Industry professionals in the statutory bodies play a major role in development of curriculum along with suggestions from different stakeholders.

Six Factors are Considered towards the Curriculum Development:

1. Emerging Technology and Innovations
2. Developmental needs at various levels
3. Opinion of Stakeholders
4. Suggestions from Professional Bodies
5. Review of Curriculum of National & International Universities

Standardized tests and competitive exams at the end of the program (GATE, GRE, IES etc.)

| File Description | Documents |
|---|---|
| Upload additional information, if any | No File Uploaded |
| Link for additional information | **https://www.jiscollege.ac.in/curriculum-syllabus.php** |

## 1.1.2 - Number of Programmes where syllabus revision was carried out during the year

05

| File Description | Documents |
|---|---|
| Minutes of relevant Academic Council/BOS meeting | **View File** |
| Details of syllabus revision during the year | **View File** |
| Any additional information | No File Uploaded |

## 1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

192

| File Description | Documents |
|---|---|
| Curriculum / Syllabus of such courses | **View File** |
| Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses | **View File** |
| MoUs with relevant organizations for these courses, if any | No File Uploaded |

| Any additional information | No File Uploaded |
|---|---|

## 1.2 - Academic Flexibility

## 1.2.1 - Number of new courses introduced across all programmes offered during the year

97

| File Description | Documents |
|---|---|
| Minutes of relevant Academic Council/BoS meetings | View File |
| Any additional information | No File Uploaded |
| Institutional data in prescribed format (Data Template) | View File |

## 1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

12

| File Description | Documents |
|---|---|
| Minutes of relevant Academic Council/BoS meetings | View File |
| Any additional information | No File Uploaded |
| List of Add on /Certificate programs (Data Template) | View File |

## 1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

Cross-cutting issues are integrated prominently in curriculum. As per the regulatory authority environmental science and human values havebeen incorporated into all our curriculum. Curriculum structure integrates all the essential ingredients associated with the following: (i) Environment and Sustainability. (ii) Human Values and Professional Ethics. The list of the courses related to Environment & Sustainability, Human Values and Professional Ethics into the regulation 2018 of the Curriculum are presented below.

| File Description | Documents |
|---|---|
| Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum | View File |

| Any additional information | No File Uploaded |
|---|---|

## 1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

25

| File Description | Documents |
|---|---|
| List of value-added courses | **View File** |
| Brochure or any other document relating to value-added courses | **View File** |
| Any additional information | No File Uploaded |

## 1.3.3 - Number of students enrolled in the courses under 1.3.2 above

169

| File Description | Documents |
|---|---|
| List of students enrolled | **View File** |
| Any additional information | **View File** |

## 1.3.4 - Number of students undertaking field work/projects/ internships / student projects

2455

| File Description | Documents |
|---|---|
| List of programmes and number of students undertaking field projects / internships / student projects | **View File** |
| Any additional information | **View File** |

## 1.4 - Feedback System

| 1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni | A. All 4 of the above |
|---|---|

| File Description | Documents |
|---|---|
| Provide the URL for stakeholders' feedback report | **https://jiscollege.ac.in/naac/aqar20-** |

| | **21/1.4.1.pdf** |
|---|---|
| Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management | **View File** |
| Any additional information | **No File Uploaded** |

| **1.4.2 - The feedback system of the Institution comprises the following** | **B. Feedback collected, analysed and action taken** |
|---|---|

| File Description | Documents |
|---|---|
| Provide URL for stakeholders' feedback report | **https://jiscollege.ac.in/naac/aqar20-21/1.4.1a.pdf** |
| Any additional information | **No File Uploaded** |

## TEACHING-LEARNING AND EVALUATION

### 2.1 - Student Enrollment and Profile

### 2.1.1 - Enrolment of Students

### 2.1.1.1 - Number of students admitted (year-wise) during the year

**699**

| File Description | Documents |
|---|---|
| Any additional information | **No File Uploaded** |
| Institutional data in prescribed format | **View File** |

### 2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

**289**

| File Description | Documents |
|---|---|
| Any additional information | **No File Uploaded** |
| Number of seats filled against seats reserved (Data Template) | **View File** |

### 2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

As the students of different merit have different learning capability, JIS College of Engineering has developed different policies to assess the same. Faculty members of JIS College of Engineering are carrying out a continuous evaluation process to determine the student's ability so that students have been classified into categories of slow and advanced learners. Activities of slow learners are done by taking more care by the mentors. They paired with brighter students in group activities to create a healthy and conducive environment to improve their pace and arrange extra remedial classes, lecture and soft skill training. Advanced learners are motivated to work with slow learners in practical hours, splitting them for group activities, mapping them for projects based on their choice of topic, mapping them for extra-curricular (through Mandatory Additional Requirement (MAR)) and co-curricular activities (through Massive Open Online Courses (MOOCs)), digital content, quiz competitions through online platform, Inter college / State level /National Level competitions, NPTEL/SWAYAM online courses, Project task and providing the Course beyond Curriculum training. Institution exposes advanced learners to international internships by sponsoring 100% expenses for the duration. Students are encouraged to make research contributions through paper publication at National and International conferences under mentor's guidance.

| File Description | Documents |
|---|---|
| Upload any additional information | **View File** |
| Paste link for additional information | **Nil** |

## 2.2.2 - Student – Teacher (full-time) ratio

| Year | Number of Students | Number of Teachers |
|---|---|---|
| 01/06/2021 | 2540 | 212 |

| File Description | Documents |
|---|---|
| Upload any additional information | **View File** |

## 2.3 - Teaching- Learning Process

2.3.1 - Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

In the JIS College of Engineering, the concept of Flipped learning, project-based learning and experiential learning etc. have been used to implement the student centric methods for enhancing their learning experiences.

The Flipped learning:

Flip Learning activities are divided into three parts: Pre-Class, In-Class and Post-Class.

Project Based Learning and Innovative Activities:

All semester students have been assigned to project class on semester subject and innovative work through small group division. Subject faculty members are assigned to project class for prototype realization of the innovative idea cultivated through the knowledge acquired from the subject. The faculty members are also the guide to the students in the process of preparation of projects in Hackathons and for the development of new product/ Business Plan/ registration of start-up.

Experiential learning:

The faculty members/alumni share their learning experience to educate students to be aware about the current industry needs. Faculty members deliver experiential content to students through demonstration with visual aids, periodical industrial visit experiences, presenting relevant research papers, analyzing case studies and conducting quizzes on relevant topics to make them industry ready.

Faculty members motivate students to participate in seminars/conferences to present the papers on research and contemporary topics of industry visit.

| File Description | Documents |
|---|---|
| Upload any additional information | **View File** |
| Link for additional Information | Nil |

## 2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

This Institute always provides all the modern facilities of teaching learning to inculcate the best practices. All smart class rooms are equipped with ICT tools. ICT enabled teaching practiced through Wi-Fi enabled classrooms, interactive smart boards, language lab, FLIP classrooms with E-learning resources, virtual classroom links the guest lecture of eminent

persons to develop the core knowledge in the subject. Digital studio in the institute is updated with Apple computer, Movie camera, acoustic design, good microphone for better audio quality. Faculty members of the Institute have adopted digital mode through the Learning Management Software (LMS) Google classroom, CANVAS, Microsoft Team for class lecture delivery, student's assessment, conference meeting conduction etc.Below is the list of examples of ICT enabled tools for effective teaching and learning processes.

**Infrastructure at Institute level for ICT**

- Digital Studio - 2
- ICT LABS: 4
- Smart Classrooms: 8
- Flip Classroom:15
- Interactive White Boards or Smart Boards: 10
- A desktop computer to access online resources

**General ICT tools for teaching and learning Available in Institute**

- A projector with interactive whiteboard functionality.
- Computers
- Laptops
- Internet Connectivity
- Wifi access for document sharing and device connectivity.
- Audio Systems
- Recording hardware/software for podcasting e.g. microphone, headphone and speakers
- Printer
- Scanner

| File Description | Documents |
|---|---|
| Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process | **Nil** |
| Upload any additional information | **View File** |

## 2.3.3 - Ratio of students to mentor for academic and other related issues

## 2.3.3.1 - Number of mentors

**212**

| File Description | Documents |
|---|---|
| Upload year-wise number of students enrolled and full-time teachers on roll | **No File Uploaded** |
| Circulars with regard to assigning mentors to mentees | **View File** |

## 2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

**Institute is providing academic calendar for academic flexibility to their stake holders, particularly the students and the faculty members to pertain Outcome Based Education. The Institute prepares academic calendar that includes uploading of routine, conduction of two class test examinations, submission of class test examinations, Conduction of Practical examinations, and commencement of Semester End Examinations along with the vacation period before the commencement of each semester. This information is also published on the Institute website for easy access of stakeholder. Based on the academic calendar prepared by the institutes, departments prepare the academic calendar for the smooth functioning of co-curricular as well as extra-curricular activities i.e., conduction of seminar, Innovative Idea competition, Parent Teacher Meeting, etc planned in the semesters. Submission of Lesson plan, evaluation of end semester examination answer script, etc. are followed as per the academic calendar. Remedial classes organized from departmental initiatives before each semester end examination. Courses beyond curriculum, innovative competition etc. help the students to attain knowledge beyond the syllabus, which are conducted according to academic calendar. In the semester gap industry-oriented training is provided to the students to know the current advancement of industrial progress.**

| File Description | Documents |
|---|---|
| Upload the Academic Calendar and Teaching Plans during the year | **View File** |

## 2.4 - Teacher Profile and Quality

## 2.4.1 - Number of full-time teachers against sanctioned posts during the year

**212**

| File Description | Documents |
|---|---|
| Year-wise full-time teachers and sanctioned posts for the year | **View File** |
| List of the faculty members authenticated by the Head of HEI | **View File** |

| Any additional information | No File Uploaded |
| --- | --- |

## 2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

55

| File Description | Documents |
| --- | --- |
| List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years | **View File** |
| Any additional information | No File Uploaded |

## 2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

1547.33 yrs

| File Description | Documents |
| --- | --- |
| List of teachers including their PAN, designation, Department and details of their experience | **View File** |
| Any additional information | No File Uploaded |

## 2.5 - Evaluation Process and Reforms

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

25

| File Description | Documents |
| --- | --- |
| List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result | **View File** |
| Any additional information | No File Uploaded |

## 2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

6

| File Description | Documents |
|---|---|
| Upload the number of complaints and total number of students who appeared for exams during the year | **No File Uploaded** |
| Upload any additional information | **No File Uploaded** |

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

JIS College of Engineering has been continuously carrying out reforms in its examination procedure through integration of IT enabled services in all the processes of the examination. Digital evaluation system has been successfully implemented for examinations.

Online entry of students' attendance and attendance approval through HoD portal help to reduce the errors and saves a lot of time.

Online filling of examination /revaluation forms, online payment of examination fees and downloading of Admit Cards through the student portal helps the students and institute.

Login credentials of examiners, head examiners and reviewers are created for the digital evaluation.

All the moderated question papers are uploaded in the portal with secure code.

On each day of examination, 12-digit security keys are delivered via system/ email/ SMS to CoE for downloading of question paper.

Day-wise and stream-wise student attendance sheets and the report of conducted examinations are downloaded through the CoE portal.

All the answer scripts are scanned and auto generated dummy numbers are allocated for each scanned answer script.

Both internal and external marks are submitted by examiner's login credentials.

Results are published online, and an auto generated message is communicated to the students via email/ SMS for notification of result publication.

| File Description | Documents |
|---|---|
| Upload any additional information | **View File** |
| Paste link for additional Information | **Nil** |

## 2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

**Effective implementation of learning of any programme and course depends on the attainment of POs and COs. The institute has developed its COs based on the POs as defined by the stakeholders. For all the undergraduate and postgraduate programmes, the COs have been drafted by a group of faculty members assigned for course development in specific subjects. COs of each course approved by BOS followed by Academic Council and informed to the BOG meeting. All the departments have group brainstorming sessions to draw up the programme outcomes of the various programmes. Departments prepare a course file with details of the course outcomes and at end of semester CO attainment calculation is performed. COs of the different courses are first presented in the BOS meeting and the minutes forwarded to the Academic Council for approval in presence of the principal.**

**Programme outcome and course outcome are described to the first-year students at the commencement of the programme through orientation program. It is available on the Institute website as well as the department websites. These are kept in prominent locations viz. classroom Department office, Laboratories, campus corridors, lab manual, course file and Department library of the campus for stakeholders and public view.**

| File Description | Documents |
|---|---|
| Upload COs for all courses (exemplars from the Glossary) | **View File** |
| Upload any additional information | **No File Uploaded** |
| Link for additional Information | **Nil** |

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

**To practice the Outcome Based Education in the institute, the attainment of Course Outcome (CO) is evaluated through several Direct and Indirect assessment tools. The result of attainment of CO is used to evaluate the attainment of Program Specific Outcome (PSO) and Programme Outcome (PO).**

CO,PO and PSO attainment has been measured based on Direct and Indirect assessment. Cumulative Internal Examinations and semester end examination are the measures of direct assessment.

CO Assessment Processes:

Direct assessment is obtained through Semester End Examination (SEE), Cumulative Internal Examinations (CIE), like class test, slot test, assignment, presentation, report.

Indirect assessment is obtained through various surveys as follows:

- Alumni Feedback
- StudentsFeedback
- Employer's Feedback
- Faculty Feedback

Attainment Level of courses is set as below by the program:

Target level 1: 50% students must score 60% and above

Target level 2: 70% students must score 60% and above

Target level 3: 80% students must score 60% and above

Overall CO attainment is obtained considering 40% credit from CIE and 60% from SEE.ie,

Overall CO attainment=40% credit from CIE + 60% from SEE.

Overall PO & PSO attainment:

Overall PO attainment = (80% of Direct attainment) + (20% of Indirect Attainment)

| File Description | Documents |
|---|---|
| Upload any additional information | **View File** |
| Paste link for additional Information | Nil |

## 2.6.3 - Pass Percentage of students

## 2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

**566**

| File Description | Documents |
|---|---|
| Upload list of Programmes and number of students appear for and passed in the final year examinations | **View File** |
| Upload any additional information | **No File Uploaded** |
| Paste link for the annual report | **https://jiscollege.ac.in/naac/aqar20-21/2.6.3.2** |

## 2.7 - Student Satisfaction Survey

**2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink**

**https://jiscollege.ac.in/naac/aqar20-21/2.7.1**

## RESEARCH, INNOVATIONS AND EXTENSION

## 3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

Research and Innovations are one of the key focus areas of the Institute. Institutional research facilities are frequently and consistently upgraded based in the industrial needs and societal impacts to meet the objectives set in the Institutional R&D policy. Some notable developments in this regard is, increase in number of Center of Excellence (CoE) to 7 now.

The R&D policy is well defined and focused on promotion of research through a number of initiatives like providing seed money, financial assistance, special leave for carrying out research activities, incentive for quality publications etc. The R&D policy was approved by Board of Governors in 2009 and subsequently amended on 2015 and 2018 and is available in the Institutional website (https://jiscollege.ac.in/pdf/Research-Policy.pdf )

Research activities have been further enriched through the development of world class infrastructure such as Centralized instrumental center equipped with a HPC, Particle Size Analyzer, UV Vis Spectrophotometer, Spin Coater, Semiconductor Characterization System (SCS-4200), Quantum ATK, VASP-4.8, Gaussian 16, SILVACO and so forth. In addition, a number of

**unique and specialized equipment are integrated into the research facilities such as 3D printer, Robots, CNC machine, and so on. Such equipment have promoted and sensitized a culture of cooperative and complimentary research.**

| File Description | Documents |
|---|---|
| Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption | **View File** |
| Provide URL of policy document on promotion of research uploaded on the website | **https://www.jiscollege.ac.in/pdf/Research-Policy.pdf** |
| Any additional information | **No File Uploaded** |

### 3.1.2 - The institution provides seed money to its teachers for research

### 3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

**16.625**

| File Description | Documents |
|---|---|
| Minutes of the relevant bodies of the institution regarding seed money | **View File** |
| Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized | **View File** |
| List of teachers receiving grant and details of grant received | **View File** |
| Any additional information | **View File** |

### 3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

**0**

| File Description | Documents |
|---|---|
| e-copies of the award letters of the teachers | **No File Uploaded** |
| List of teachers and details of their international fellowship(s) | **No File Uploaded** |
| Any additional information | **No File Uploaded** |

### 3.2 - Resource Mobilization for Research

### 3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

45.47029

| File Description | Documents |
|---|---|
| e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations | **View File** |
| List of projects and grant details | **View File** |
| Any additional information | **No File Uploaded** |

### 3.2.2 - Number of teachers having research projects during the year

7

| File Description | Documents |
|---|---|
| Upload any additional information | **View File** |
| Paste link for additional Information | **Nil** |
| List of research projects during the year | **View File** |

### 3.2.3 - Number of teachers recognised as research guides

11

| File Description | Documents |
|---|---|
| Upload copies of the letter of the university recognizing teachers as research guides | **View File** |
| Institutional data in Prescribed format | **View File** |

### 3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

5

| File Description | Documents |
|---|---|
| | |

| Supporting document from Funding Agencies | **View File** |
|---|---|
| Paste link to funding agencies' website | **Nil** |
| Any additional information | **View File** |

## 3.3 - Innovation Ecosystem

**3.3.1** - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

The institute has taken active initiatives in creating an ecosystem for nurturing innovative minds by inculcating a spirit of ideation to prototype development, promotion of patenting and licensing and finally do active research and collaboration for translating domain expertise into products or technologies. The Institute has established Innovation Cell in 2015 and after metamorphosis in 2018 it is renamed as Institutional Innovation Council (IIC). The Council consistently organizes Leadership talks, IPR awareness along with activities of MoE, India. The IIC of the Institute has received Highest ranking in past 3 consecutive years. The Institute is in Band Excellence category of ARIIA and selected as a MSME host Institution. And recently it has been selected for setting up AICTE IDEA Lab.

To nurture innovative minds dedicated Design Lab has been developed equipped with 3D printer, cutter, milling machine, CNC machine, related chips and other necessities. Selected students are invited by CII, BCII to showcase their achievements. Four Startup companies have been created till date. Institute has 150+ IPRs (11 are granted), 5 copyrights.

Creation and achievements of young innovators are exhibited through annual technical symposium (JISTech) which is organized is a very systematic way from idea competition to prototype exhibition.

| File Description | Documents |
|---|---|
| Upload any additional information | **No File Uploaded** |
| Paste link for additional information | **Nil** |

**3.3.2** - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

14

| File Description | Documents |
|---|---|

| Report of the events | **View File** |
|---|---|
| List of workshops/seminars conducted during the year | **View File** |
| Any additional information | **No File Uploaded** |

## 3.4 - Research Publications and Awards

| **3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software** | **A. All of the above** |
|---|---|

| File Description | Documents |
|---|---|
| Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check | **View File** |
| Any additional information | **No File Uploaded** |

## 3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

### 3.4.2.1 - Number of PhD students registered during the year

23

| File Description | Documents |
|---|---|
| URL to the research page on HEI website | **https://www.jiscollege.ac.in/phd.php** |
| List of PhD scholars and details like name of the guide, title of thesis, and year of registration | **View File** |
| Any additional information | **No File Uploaded** |

## 3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

98

| File Description | Documents |
|---|---|
| List of research papers by title, author, department, and year of publication | **View File** |
| Any additional information | **View File** |

### 3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

**39**

| File Description | Documents |
|---|---|
| Upload any additional information | **View File** |
| Paste link for additional information | **Nil** |

### 3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

### 3.4.5.1 - Total number of Citations in Scopus during the year

**579**

| File Description | Documents |
|---|---|
| Any additional information | **No File Uploaded** |
| Bibliometrics of the publications during the year | **View File** |

### 3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of  Science – h-Index of the University

### 3.4.6.1 - h-index of Scopus during the year

**8.7**

| File Description | Documents |
|---|---|
| Bibiliometrics of publications based on Scopus/ Web of Science - h-index of the Institution | **View File** |
| Any additional information | **View File** |

### 3.5 - Consultancy

### 3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

18.78

| File Description | Documents |
|---|---|
| Audited statements of accounts indicating the revenue generated through consultancy and corporate training | **View File** |
| List of consultants and revenue generated by them | **View File** |
| Any additional information | **View File** |

### 3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

5.525

| File Description | Documents |
|---|---|
| Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy | **View File** |
| List of training programmes, teachers and staff trained for undertaking consultancy | **View File** |
| List of facilities and staff available for undertaking consultancy | **View File** |
| Any additional information | **No File Uploaded** |

### 3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

Institute has taken special attention to address the societal needs and development of the neighbouring community. Extension activities are carried out by Community Connect, Environment Club, NSS/NCC; which in turn leads to holistic development of students. Institute adopted five villages under UBA and looking after overall community development.

NSS team and NCC cadets [41 Bengal Battalion] of the Institute had organized various activities. Different clubs had organized many awareness programmes along with various external organizations like Kalyani Municipality, University of Kalyani, JNM Hospital, Lions Clubs. These programs made the students responsive about proper hygiene to improve the child health of the slum area, to conserve water etc. Blood donation camps were also organized

**with the collaboration of the nearby Hospitals of the Kalyani. Environment friendly programmes such as Tree plantation, Cleanliness Drive, are organized by the Institute.**

**In addition the NCC wing of the Institute celebrates days of national pride. The Institute also organizes programmes on 'World Yoga Day', 'World Youth Day' to celebrate the power of youth in building the new India.**

**Every year during Puja, Community connect club arranges distribution of food and garments to the local blind school, backward people and Old age Home in locality.**

| File Description | Documents |
|---|---|
| Upload any additional information | **View File** |
| Paste link for additional information | **Nil** |

### 3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

**4**

| File Description | Documents |
|---|---|
| Number of awards for extension activities in during the year | **No File Uploaded** |
| e-copy of the award letters | **No File Uploaded** |
| Any additional information | **No File Uploaded** |

### 3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

**16**

| File Description | Documents |
|---|---|
| Reports of the events organized | **View File** |
| Any additional information | **View File** |

### 3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

1413

| File Description | Documents |
|---|---|
| Reports of the events | **View File** |
| Any additional information | **No File Uploaded** |

## 3.7 - Collaboration

### 3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

182

| File Description | Documents |
|---|---|
| Copies of documents highlighting collaboration | **View File** |
| Any additional information | **View File** |

### 3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

9

| File Description | Documents |
|---|---|
| e-copies of the MoUs with institution/ industry/ corporate house | **View File** |
| Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year | **View File** |
| Any additional information | **View File** |

## INFRASTRUCTURE AND LEARNING RESOURCES

## 4.1 - Physical Facilities

### 4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.

The campus spread over 10.3 acres of land. Of the total, built up area is approx 32374.9 Sq. m and area 13354.6 sq. m for hostel. The remaining area is used for support facility like play ground, canteen, temple, parking, green garden etc.The institute is having well furnished ICT enabled class rooms, state-of-art laboratories and excellent computing facilities for nurturing teaching-learning and research.

Classrooms:

JISCE has 80 classrooms to cater the needs of UG and PG programs. All the class rooms are ICT enabled with Wi-Fi connectivity available in the campus.

Laboratories:

Institute is having 70 laboratories to cater hands on training for UG and Pg students. Additionally, few specialized laboratories are also been developed to provide inter disciplinary facilities for research works.

Computing facility:

As per the requirement of the regulatory/statutory bodies Institute's required 500 numbers of computer systems. Institute provides uninterrupted access to information and network services with 200 Mbps internet bandwidth and over 100 Wi-Fi access points.

Additional facilities:

Beyond the requirement of the regulatory/statutory bodies Institute has 2 digital studios along with a miniplex with a seating capacity of 22 persons. The studio has the facility for recording and projection with a quality sound system.

| File Description | Documents |
|---|---|
| Upload any additional information | No File Uploaded |
| Paste link for additional information | https://jiscollege.ac.in/naac/aqar20-21/4.1.1.pdf |

4.1.2 - The institution has adequate facilities for cultural activities, yoga, sports and games (indoor and outdoor) including gymnasium, yoga centre, auditorium etc.)

Cultural activities:

Different cultural events such as 'Kabi Pranam', 'Bijoya Sammaloni', 'Cultural feast', 'JIS Idol', 'Fashion Show' etc. have been organized by the cultural committee.

Yoga centre:

A specific Yoga cum Prayer room is there which can accommodate 40-50 numbers of students.

Indoor Games:

Indoor sports rooms having 75 sq. m areas comprises of 2 TT tables, 4 Carom boards, 1 Snooker board and 8 chess boards, along with this separate rooms are available in Boys and Girls hostel consists of 1 TT table and 2 carom boards each.

Outdoor Games:

The Institution has a big open multipurpose sports ground of around 14,760 sq. m. which comprises of football ground with goal posts, cricket pitch, volleyball ground, 200m round track for Athletics where 100-200-400-1500 m race, relay race, Long jump, Shot put, Javelin throw, Discuss throw etc. are being conducted under the supervision of the Sports Instructor.

Gymnasium:

It is accommodated with modern equipments like:

Equipments

Item numbers

Treadmills

2

Crossing/ chilling Pulley

2

Bench press

5

**High Pulley**

**3**

**Twister**

**2**

**Parallel bar**

**2**

**Leg rising**

**1**

**Preacher curl**

**2**

**Dumbbells**

**Comprises of**

**different weights**

**Auditorium**

**Institute has 2 modern spacious Auditorium with audio visual facilities.**

| File Description | Documents |
| --- | --- |
| Geotagged pictures | **No File Uploaded** |
| Upload any additional information | **No File Uploaded** |
| Paste link for additional information | **https://jiscollege.ac.in/naac/aqar20-21/4.1.2.pdf** |

### 4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

**88**

| File Description | Documents |
|---|---|
| Upload any additional information | **View File** |
| Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template) | **View File** |

## 4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

7324473

| File Description | Documents |
|---|---|
| Upload audited utilization statements | **View File** |
| Details of Expenditure, excluding salary, during the years | **View File** |
| Any additional information | **View File** |

## 4.2 - Library as a Learning Resource

### 4.2.1 - Library is automated using Integrated Library Management System (ILMS)

Automation:

Central Library began the process of automation in 2004, with barcode technology using fully automated process with commercial ILMS, LIBSYS version 4.0. In 2017, the College introduced web based library management software, LibManTM to improve and streamline the library operations in a more effective and efficient manner. Presently all the library books are circulated with the help of barcode technology. With the LibManTM, the library provides WebOPAC facility to its clients and users can search the library collection remotely.

Link for OPAC http://122.252.249.26:92/forms/frmdashboard.aspx

Along with subscribed e-resources Library also provides remote access of e-resources through N-LIST programme under Shodh Sindhu(in 22 databases). It also provides the access and encourages the use of other Government of India initiatives under the National Mission on Education through Information and Communication Technology (NMEICT) project. Digitization Facility:

Key features:

The scanner has high speed, continuous scanning facility with auto scan, auto focus and auto cropping features. Wi-Fi and IP connectivity enabled scanning facility with customizable

**user interface is available. The library has developed an Institutional repository intranet portal which contains list of publications (which do not fall under copyright act) of faculty members and Ph.D. thesis in a browse able and searchable format.**

| File Description | Documents |
|---|---|
| Upload any additional information | No File Uploaded |
| Paste link for additional information | **https://jiscollege.ac.in/naac/aqar20-21/4.2.1.pdf** |

| **4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources** | **A. Any 4 or more of the above** |
|---|---|

| File Description | Documents |
|---|---|
| Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership | **View File** |
| Upload any additional information | No File Uploaded |

**4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)**

**2817637**

| File Description | Documents |
|---|---|
| Audited statements of accounts | No File Uploaded |
| Any additional information | **View File** |
| Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template) | **View File** |

**4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)**

**4.2.4.1 - Number of teachers and students using the library per day during the year**

**454**

| File Description | Documents |
|---|---|
|  |  |

| Upload details of library usage by teachers and students | **View File** |
|---|---|
| Any additional information | **No File Uploaded** |

## 4.3 - IT Infrastructure

### 4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

**The Institute has an IT policy covering all major areas like Wi-Fi, cyber security etc. which is updated or amended whenever required as per the need of the institute. Institution is regularly upgrading its infrastructure covering Wi-Fi, cyber security, software up gradation, erp system, ICT enabled teaching learning. Formal IT policy has been approved by academic council and board of governess (BOG).**

1. **Previous accreditation the campus has been enabled with internet bandwidth of 50 Mbps but now we upgrade the bandwidth with RAILTEL 50Mbps (1:1), and Alliance Broadband 50 Mbps (1:1) Leased line. Total Bandwidth is 100 Mbps.**
2. **Wi-Fi network facility were deployed across the campus & hostels.**
3. **Previously we have 700 pcs with Pentium IV and i3 processor with 1/2 GB RAM 160/320 GB Hard Disk but now institute have upgraded 1000 PCs with i3,i5 and i7 processor , 4/ 8 GB RAM and 1 TB Hard Disk for better performance . We have also upgraded our servers with 64GB RAM and minimum 4 TB Hard disk.**
4. **Institutes installed CCTV across the campus covering all areas of the college and also in the Boys and girls hostels for providing better security.**

| File Description | Documents |
|---|---|
| Upload any additional information | **No File Uploaded** |
| Paste link for additional information | **https://jiscollege.ac.in/naac/aqar20-21/4.3.1.pdf** |

### 4.3.2 - Student - Computer ratio

| Number of Students | Number of Computers |
|---|---|
| **2540** | **902** |

| File Description | Documents |
|---|---|
| Upload any additional information | **View File** |

**4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus**

**A. ≥50 Mbps**

| File Description | Documents |
|---|---|
| Details of bandwidth available in the Institution | **View File** |
| Upload any additional information | **No File Uploaded** |

**4.3.4 - Institution has facilities for e-content development:            Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing**

**A. All four of the above**

| File Description | Documents |
|---|---|
| Upload any additional information | **No File Uploaded** |
| Paste link for additional information | **https://jiscollege.ac.in/naac/aqar20-21/4.3.4.pdf** |
| List of facilities for e-content development (Data Template) | **View File** |

**4.4 - Maintenance of Campus Infrastructure**

**4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)**

**26221919**

| File Description | Documents |
|---|---|
| Audited statements of accounts | **View File** |
| Upload any additional information | **No File Uploaded** |

**4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities – classrooms, laboratory, library, sports complex, computers, etc.**

**1. Maintenance of Physical Facilities: The physical facilities are maintained by the Institutions engineering section, which comprises competent civil engineer and electrical**

engineers. The services of plumbers, electricians, and computer analysts are available round the clock in the campus.

1.1. Maintenance of Classrooms, Furniture: Classrooms with furniture, teaching aids are maintained by the respective department staff and attendants and supervised by the respective Head of the Department.

1.2. Maintenance of Sports and Games Facility: The sports equipments, fitness equipments, ground and various courts in Campus are supervised and maintained by the Physical Instructor.

1.3. Maintenance of Library and Library Resources: The library staff is clearly instructed in the care and handling of library documents, particularly during processing, shelving and conveyance of documents.

1.4. Maintenance of Campus Cleanliness: Cleaning of the campus areas and hostels is performed daily in the morning before the classes begin.

2. Maintenance of Laboratories: Normally the institute has policy that while buying any equipment for Lab in purchase order itself there is clause that supplier trains the Lab technician and supplies documents and Tools/Spares.

3. Maintaining Computers related equipment: System Administrator along with technicians and instructors who are responsible for repair and maintenance of equipments.

| File Description | Documents |
|---|---|
| Upload any additional information | No File Uploaded |
| Paste link for additional information | https://jiscollege.ac.in/naac/aqar20-21/4.4.2.pdf |

## STUDENT SUPPORT AND PROGRESSION

### 5.1 - Student Support

### 5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

280

| File Description | Documents |
|---|---|
| Upload self-attested letters with the list of students receiving scholarships | View File |

| Upload any additional information | **View File** |
|---|---|

## 5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

**581**

| File Description | Documents |
|---|---|
| Upload any additional information | **View File** |
| Institutional data in prescribed format | **View File** |

## 5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology

**A. All of the above**

| File Description | Documents |
|---|---|
| Link to Institutional website | **https://jiscollege.ac.in/naac/aqar20-21/5.1.3.pdf** |
| Details of capability development and schemes | **View File** |
| Any additional information | **View File** |

## 5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

**1348**

| File Description | Documents |
|---|---|
| Any additional information | **View File** |
| Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template) | **View File** |

## 5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual

**A. All of the above**

**harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees**

| File Description | Documents |
|---|---|
| Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee | **View File** |
| Details of student grievances including sexual harassment and ragging cases | **View File** |
| Upload any additional information | **View File** |

## 5.2 - Student Progression

### 5.2.1 - Number of outgoing students who got placement during the year

**519**

| File Description | Documents |
|---|---|
| Self-attested list of students placed | **View File** |
| Upload any additional information | **View File** |

### 5.2.2 - Number of outgoing students progressing to higher education

**37**

| File Description | Documents |
|---|---|
| Upload supporting data for students/alumni | **View File** |
| Details of students who went for higher education | **View File** |
| Any additional information | **No File Uploaded** |

### 5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

**5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/  GRE/ TOEFL/Civil Services/State government examinations) during the year**

11

| File Description | Documents |
|---|---|
| Upload supporting data for students/alumni | **View File** |
| Any additional information | **View File** |

**5.3 - Student Participation and Activities**

**5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year**

9

| File Description | Documents |
|---|---|
| e-copies of award letters and certificates | **View File** |
| Any additional information | **View File** |

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

JIS College of Engineering harbours active Student Council to inculcate the sense of the leadership & quality among students in various fields of their student life. Student Council Members 2020-2021: Ø Chairman: Prof. (Dr.) Partha Sarkar, Principal JISCE Ø Faculty Advisor: Prof. (Dr.) Prasanta Kumar Bardhan, Dean-Students Affair Ø President: Mr. Dwaipayan Saha Ø Vice President: Ms. Sadrita Basu Ø General Secretary: Ms. Rakhi Pandey The Student Council has four distinctive domains: Academic:

Student Representatives are in various Academic domain, like, IQAC, Library Committee, NPTEL Local Chapter e-Learning Centre, Student Branch of CSI, IEI & IEEE. Student's representative in Academics drives the quality policies formulated by the institution which are further adapted among the students forall round development of the organization. Administrative: Student Council representatives actively play Administrative role in Anti Ragging Committee, Anti-Ragging Squad, Mentoring Cell, Hostel & Canteen Committee and Women Cell, ICC for smooth functioning of the bodies. Extra-Curricular: The various clubs, like, Photography & Trekking Club, Music Club, Environment & Educational Club and Art & Literature Club,

comprises of student representative to propel the functioning of the Clubs and organize various programs. Sports: Student representative in Sport Council organizes various sports activities.

| File Description | Documents |
|---|---|
| Upload any additional information | **View File** |
| Paste link for additional information | **https://jiscollege.ac.in/naac/aqar20-21/5.3.2.pdf** |

### 5.3.3 - Number of sports and cultural events / competitions organised by the institution

50

| File Description | Documents |
|---|---|
| Report of the event | **View File** |
| List of sports and cultural events / competitions organised per year | **View File** |
| Upload any additional information | **No File Uploaded** |

### 5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

The Alumni Association of JISCE was officially registered on 4th February, 2013 under West Bengal Societies Registration Act, 1961 with Registration No: S/2L/707 of 2012-13.

Its functioning since then and has been renewed in the present session. Major areas of Alumni Contribution to their Alma Mater are: A. Networking and Mentoring – The alumni serve to benefit students in various aspects, like, mentoring in academics, professional ground, opportunities and prospects. They interact through online and offline mode. B. Academic & Extra-academic Support –Our alumni play a pivotal role in collaborative research work, framing and modification of syllabus curriculum of various courses across all the programs in the institution depending on the present Industry needs. C. Career Guidance – The Alumni connect with the ongoing students for various Pre-placement sessions to groom present students based on the various needs and present scenarios of the Industry. D. Placement Support – Alumnus provides interactive sessions with the students to prepare them for Placement Interview. They conduct Mock Interview, Group Discussion sessions as a Placement preparatory phase. E. Entrepreneurial Assistance – Alumni who are now successful

entrepreneurs, propel the objective of entrepreneurship & guide the aspiring ongoing students.

| File Description | Documents |
|---|---|
| Upload any additional information | **View File** |
| Paste link for additional Information | **https://jiscollege.ac.in/naac/aqar20-21/5.4.1b.pdf** |

| 5.4.2 - Alumni's financial contribution during the year | D. 2 Lakhs - 5 Lakhs |
|---|---|

| File Description | Documents |
|---|---|
| Upload any additional information | **View File** |

## GOVERNANCE, LEADERSHIP AND MANAGEMENT

### 6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

Vision:

To develop a sustainable ecosystem of technical education while fostering quality in teaching-learning & research through techno-pedagogical approach, capacity building, inculcating ethical values & leadership qualities to create the global citizen for serving the society.

Mission:

- World Class Education – Provide a state-of-the-art educational infrastructure and enriching project-based learning environment conducive to higher learning for students, internships in leading organizations, participation in national and international community service projects.
- Cutting-edge Research – Maintain a vibrant research environment creating opportunities for intellectual engagement of students in cutting edge interdisciplinary research and innovation through collaborative work with local, regional and international communities.
- Capacity Development – Conduct capacity development programs for skilling, upskilling and reskilling of faculties & students by involving practitioners from governments,

corporations, and civil society organizations to enhance their management & leadership qualities as well as commitment to professional ethics.

- **Impactful People - Promote a culture of excellence in curricular, cocurricular and extracurricular activities of the Institute by implementing good practices aimed at personal and professional development of students, faculty members & non-academic staffs.**

| File Description | Documents |
|---|---|
| Upload any additional information | **View File** |
| Paste link for additional Information | **https://www.jiscollege.ac.in/mission-vision-objective.php** |

## 6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

The process of curriculum design is a fine example of academic decentralization i.Faculty members in association with the syllabus committee create the draft curriculum and syllabus where suggestions from academic peers, campus recruiters, students and alumni are considered.

ii. The Board of Studies of each department has a large representation of departmental faculties, where the proposed changes in curriculum and syllabus are analyzed in presence of external academic and industry experts. Finally, recommendations of BOS are ratified in the Academic Council and submitted to BOG for final approval.

Regarding administrative decentralization, the senior faculty at the helm of policymaking continuously engages the faculty members. Faculties can propose modernization or requisition of new equipment as per the industry needs or newly introduced courses.

Financial autonomy is shared up to a certain extent as approved by the Board of Governors on 30.08.2014.

Participative management is reflected in the active functioning of a number of committees identifying possibilities, planning, organizing, implementing and monitoring all the activities of the institution. Every department has Program coordinators at UG and PG levels.

| File Description | Documents |
|---|---|
| | |

| | |
|---|---|
| Upload strategic plan and deployment documents on the website | **View File** |
| Upload any additional information | **View File** |
| Paste link for additional Information | **https://www.jiscollege.ac.in/pdf/jiscestatute.pdf** |

## 6.2 - Strategy Development and Deployment

### 6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

The institution prepares a perspective plan for next one year. The salient points of the '2020 -2021 plan were the following:

1. Collaboration with foreign universities to initiate international internships.

2. Organizing more International Conferences.

3. Regularizing Orientation program (twice a year) and Refreshers courses for teachers

Improvement in community engagement and outreach programs.

| File Description | Documents |
|---|---|
| Strategic Plan and deployment documents on the website | **View File** |
| Paste link for additional information | **https://www.jiscollege.ac.in/pdf/Strategic-Plan-JISCE-2019-2024.pdf** |
| Upload any additional information | **View File** |

### 6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the policies, administrative set-up, appointment and service rules, procedures, etc.

The board of governors is the apex body in the institute. It is responsible for defining the role and mission of the institute and, thereby setting the strategic directions for the desired achievements. The board of governors has the responsibility to administer institutional performance. All its decision and policies are made for the best interest of the institution.

The Principal heads the Institutional planning cell that aid and advice in planning all schemes related to theinstitution. He is supported by a team of Deans (Academics, Research,

**Innovative Learnings and Student Affairs), HODs, Registrar and Administrative Officer.**

**Functions of academic administration, policyformulation, and implementation are carried out by Deans, who are supported by HODs.**

**The institute devotes attention, time and effort at resolving the Grievances of the staff within the framework of the guidelines and the terms of institutional policy.**

| File Description | Documents |
|---|---|
| Paste link to Organogram on the institution webpage | **https://www.jiscollege.ac.in/organogram.php** |
| Upload any additional information | **View File** |
| Paste link for additional Information | **https://www.jiscollege.ac.in/governance.php** |

| 6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination | **A. All of the above** |
|---|---|

| File Description | Documents |
|---|---|
| ERP (Enterprise Resource Planning) Documen | **View File** |
| Screen shots of user interfaces | **View File** |
| Details of implementation of e-governance in areas of operation | **View File** |
| Any additional information | **No File Uploaded** |

## 6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

**Our institution has effective welfare measures for teaching and nonteaching staff. JISCE emphasizes Professional development as one of the important attributes for Teaching and Non-Teaching staff and frames polices to enhance the same.**

**Welfare measures for staffs**

**Duty leaves to staff members to attend various Training Programmes/ Orientation/Refresher/Workshop/Seminar/Exam subject to the existing Government rules.**

**Gratuities as per Government welfare schemes and measures Group Medical Insurance.**

**Provident fund (50% Contributions from Management, wherever applicable Medical benefit.**

**ESI Facility (for those who coming under the purview as per rules Hostel Facility for teachers on demand.**

**Avenues for career development/progression**

**Career development schemes have been framed by the institution to improve knowledge and professional skills of faculties which is vital for carrying out modernteaching, research and administrative activities.**

**i) Facutly Development Programs (FDP) programs arranged in every semester on various advanced pedagogies,**

**ii) Half day leave per week is granted to the faculty members cumulative up to 2 days per month**

**iii)Financial support provided to faculties as registration fee for participating in National or International Conferences, Workshops, FDPs.**

**iv)Financial assistance is given to faculties for professional society membership.**

| File Description | Documents |
|---|---|
| Upload any additional information | **View File** |
| Paste link for additional information | **https://www.jiscollege.ac.in/pdf/jiscestatute.pdf** |

### 6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

**173**

| File Description | Documents |
|---|---|
| Upload any additional information | **View File** |
| Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template) | **View File** |

## 6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

**48**

| File Description | Documents |
|---|---|
| Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres) | **View File** |
| Upload any additional information | **View File** |

## 6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

**189**

| File Description | Documents |
|---|---|
| Summary of the IQAC report | **View File** |
| Reports of the Human Resource Development Centres (UGC ASC or other relevant centers) | **View File** |
| Upload any additional information | **View File** |

## 6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

JIS College of Engineering conducts both independent external audit (statutory audit) as well as internal audit. JIS College of Engineering categorically reiterates that it has carried out internal and external audits in a timely manner with no serious financial irregularity ever reported.

The timelines for the same are rigorously adhered to and executed with the necessary due diligence. Whereas statutory audit is done once in a year, internal audit is executed on a half yearly basis. Internal audits streamline all transactions and check the compliance level across the hierarchy. Internal audit is more focused on the authenticity of financial transactions and monitoring of tax and other regulatory compliances which is conducted by DPC & Associates, Cost Accountants, FRN No: 001147, 3 Kapalitala Lane, 1ST Floor, Kolkata 700012 for the year 2020-21.

**M/s. Bandyopadhyay Associates, Chartered Accountants of 350 (370/6) Pearapore Road, P.O-Sheoraphuli,Dost- Hooghly, Pin-712223 West Bengal is appointed which conduct the external audit in accordance withGenerally Accepted Auditing Principles as prescribed by relevant regulatory authorities.**

| File Description | Documents |
|---|---|
| Upload any additional information | **View File** |
| Paste link for additional information | **https://www.jiscollege.ac.in/** |

### 6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

**0**

| File Description | Documents |
|---|---|
| Annual statements of accounts | **View File** |
| Details of funds / grants received from non-government bodies, individuals, philanthropists during the year | **No File Uploaded** |
| Any additional information | **No File Uploaded** |

### 6.4.3 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

**Institute mobilize funds through its major contribution from Students Fees & Hostel Fees. To balance the expenses of deficit if any, Interest from Deposits, Fees from External exam conducted by external Authorities and if required Bank loans are also availed. The institute follows the strategies listed below to mobilize resources and utilizes the fund for its activities in a systematic manner.**

**1. By a collection of tuition fees from Indian students .**

**. 2.By disbursement of Salary with perquisites and benefits to the faculty and staff members,**

**. 3. By utilizing an additional major fund for updating of the academic facility by new procurement of Laboratory equipment and Purchasing consumables for laboratory use**

. 4. By purchase of library books, journals, subscriptions for e-journal and e-books, holding seminars and workshops for faculties and students, expenditure towards Research & Development facility.

. 5. By disbursing funds for the maintenance of academic support and physical support facilities, maintenance of hostel facility.

. 6. By disbursing funds for holding student cultural, sports and other activities.

. 7. By expenditure for other recurring expenditures like electricity, internet, security, registration and affiliation and other running expenses.

| File Description | Documents |
|---|---|
| Upload any additional information | **View File** |
| Paste link for additional Information | **https://www.jiscollege.ac.in/** |

**6.5 - Internal Quality Assurance System**

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

As per the guidelines of NAAC, an Internal Quality Assurance Cell (IQAC) has been established in the year 2010, to ensure the quality measure and its continuous improvements. The IQAC is involved in developing the quality assurance strategies in the following areas like curriculum planning & development, teaching-learning, faculty development program, student activities, industry-institute interaction, research & innovation activities advances and enhances the learning possibilities through foreign collaborations, etc.

Two significant practices institutionalized during the last yearare:

1. Alignment of the curriculum with industry requirements:IQAC of the institute has taken a major role in the curriculum planning and development process across all the programs in regular intervals as per the demand of the industry. The outcome analysis and feedback from all the stockholders are initiated from the IQAC to upgrade and update the curriculum. The IQAC has made it mandatory to keep industry person(s) in all the departmental BoS and the suggestions from them must be discussed in the IQAC meeting for the up-gradation of the next

curriculum. The IQAC has made it compulsory for all faculty members to attend regular faculty development programs .

2. Academic Audits: The IQAC of the institute conducts regular academic audits .

| File Description | Documents |
|---|---|
| Upload any additional information | **View File** |
| Paste link for additional information | **https://www.jiscollege.ac.in/iqac.php** |

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

One of the main functions of the IQAC is to analyze the teaching-learning process, structures & methodologies of operations and measures the learning outcomes at periodic intervals. The IQAC is dedicated to adopting the learner-centric approach in teaching-learning progression and a periodic review on the methodology is always initiated. Institutional IQAC offers support and guidance to the faculty regarding the current pedagogical trends across the world. To achieve learning outcomes, the IQAC periodically analyses the teaching-learning process and recommends regular development, up-gradation, and addition of the necessary teaching methodology, techniques, and infrastructure. A pedagogical change from conventional teaching-learning to project based learning (PBL) to modern start-of-the-art flipped learning has been implemented over the last few years.

Reviewing Year(2020-21)

Teaching Learning Process, Structure, and Methodology

2020-21

IQAC suggested practicing the full-fledged Outcome-based Education (OBE) in all the departments and it has been decided that at the end of each semester course-wise outcome analysis will be done.

More traditional class rooms has been converted into ICT based rooms.

Practicing of flipped learning for all the years and for all the courses.

| File Description | Documents |
|---|---|
| | |

| Upload any additional information | **View File** |
| --- | --- |
| Paste link for additional information | **https://www.jiscollege.ac.in/digital-learning.php** |

| **6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)** | **A. Any 4 or all of the above** |
| --- | --- |

| File Description | Documents |
| --- | --- |
| Paste the web link of annual reports of the Institution | **https://www.jiscollege.ac.in/pdf/Annual-Report-JISCE-20-21.pdf** |
| Upload e-copies of accreditations and certification | **View File** |
| Upload details of quality assurance initiatives of the institution | **View File** |
| Upload any additional information | **No File Uploaded** |

## INSTITUTIONAL VALUES AND BEST PRACTICES

**7.1 - Institutional Values and Social Responsibilities**

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

**The institution shows gender sensitivity in providing the following facilities:**

**Safety and Security.**

**Internal Complaint Committee (ICC).**

**Lady caretaker and Matron are appointed for Girls' hostels.**

**Security Personals are engaged for 24X7 in three shifts for the campus and Hostels. CCTV cameras are installed in suitable places in the campus and hostels.**

Also, the Women Development Cell (WC) strives hard for the women safety, development and for the uplift of women in Engineering and Society.

There is a Dedicated Counseling Unit in the Girls' Hostel where a dedicated counsellor and some senior lady faculty members visit in suitable intervals (Every Saturday) and meet with the students regarding different issues. Sessions with parents are also conducted whenever it is felt necessary. Even if there is any holiday on any Saturday, the designated faculty members keep themselves available over phone and keep in touch with the hostel warden.

Separate Common Room for boys and girls with various facilities.

One day care centre is present in the Girls' Hostel which is opposite to the main entrance of the college having one lady caretaker.

Presence of girl students in every project group.etc.etc.

| File Description | Documents |
|---|---|
| Upload any additional information | **View File** |
| Paste link for additional Information | **https://www.jiscollege.ac.in/** |

| **7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy Biogas plant Wheeling to the Grid   Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment** | A. Any 4 or All of the above |
|---|---|

| File Description | Documents |
|---|---|
| Geotagged Photographs | **View File** |
| Any other relevant information | **View File** |

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

The Institution provides the facilities for the management of the following types of wastes:

Solid Waste Management:

The institute in association with Kalyani Municipality maintains a regular process of Solid Waste Management at the college campus. Sufficient numbers of pairs of dustbins (e.g. green & red) are available at the college campus which collects biodegradable and non-biodegradable materials separately. A huge amount of canteen waste is generated and used for biogas generation.

Liquid Waste Management:

The liquid wastes generated in the campus include Sewage, and canteen effluent waste which is treated in the institute. The entire treated water is used for watering the gardens and lawns maintained in the campus.

E-waste Management:

E-Wastes are collected from different departments in the form of desktops, laptops, printers etc. and are initially dumped in the designated rooms. These are then handed over to the scrap merchants in due course of time.

Waste Recycling System:

The waste that is generated from the canteen is food waste and vegetable peels are mostly used for biogas generation. The Garden waste which is mostly in the form of leaves which are deposited in a separate chamber and composted to form manure and used for organic farming.

| File Description | Documents |
|---|---|
| Relevant documents like agreements/MoUs with Government and other approved agencies | **View File** |
| Geotagged photographs of the facilities | **View File** |
| Any other relevant information | **View File** |

| | |
|---|---|
| **7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus** | D. Any 1 of the above |

| File Description | Documents |
|---|---|
| Geotagged photographs / videos of the facilities | **View File** |

| Any other relevant information | **View File** |
|---|---|

## 7.1.5 - Green campus initiatives include

| 7.1.5.1 - The institutional initiatives for greening the campus are as follows:<br><br>1. Restricted entry of automobiles<br>2. Use of bicycles/ Battery-powered vehicles<br>3. Pedestrian-friendly pathways<br>4. Ban on use of plastic<br>5. Landscaping | **B. Any 3 of the above** |
|---|---|

| File Description | Documents |
|---|---|
| Geotagged photos / videos of the facilities | **View File** |
| Various policy documents / decisions circulated for implementation | **View File** |
| Any other relevant documents | **View File** |

## 7.1.6 - Quality audits on environment and energy undertaken by the institution

| 7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:<br><br>1. Green audit<br>2. Energy audit<br>3. Environment audit<br>4. Clean and green campus recognitions/awards<br>5. Beyond the campus environmental promotional activities | **C. Any 2 of the above** |
|---|---|

| File Description | Documents |
|---|---|
| Reports on environment and energy audits submitted by the auditing agency | **View File** |
| Certification by the auditing agency | **View File** |

| Certificates of the awards received | **View File** |
| --- | --- |
| Any other relevant information | **No File Uploaded** |

| **7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.** | **A. Any 4 or all of the above** |
| --- | --- |

| File Description | Documents |
| --- | --- |
| Geotagged photographs / videos of facilities | **View File** |
| Policy documents and brochures on the support to be provided | **View File** |
| Details of the software procured for providing assistance | **View File** |
| Any other relevant information | **View File** |

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

The institution hasits distinct demographic location and located at the cross-road of three districts of WestBengal, well connected with North East India, Bihar, Jharkhand and neighboring countries. This has certainly encouraged to the development of a multi-diversified environment and co-existence of heterogeneous culture. The Institute strongly believes in the theme of 'unity in diversity' and existence of 'we' in the premises of the College.

Tolerance, integrity, cultural, linguistic, and socio-economic harmony are best achieved through the celebration of rituals like Swaraswati Puja, Holi, Shivratti, Buddha Purnima, Poila Baisakh, Rath Yatra, Rakhi Purnima, Janmasthami, Eid al-Fitr, EId ul Zuha, Vijaya Sammilani, Diwali, Guru Nanak Gurpurab, Christmas Day and Founder's day at Institution level.

**The Institute has taken special care on sensitizing and ambience of crosspollination of communal, socioeconomic, regional and linguistic diversities through a number of club activities. Students and teachers across the departments actively participate in events organized by these clubs on regular basis.**

| File Description | Documents |
|---|---|
| Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution) | **View File** |

## 7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

**Apart from working towards academic excellence, the institute strives to develop students as responsible citizens of this countrythrough various programs and practices.Special Lectures and seminars are conducted for students and staff to provide the information of constitutional obligations. National days are celebrated in the Institutions like Republic Day, Independence Day, Teacher's Day, Women's Day Engineer's Day, Constitutional Day,etc. Different lectures, sessions and FDPs are arranged to felicitate the students and faculty members regarding it .**

**Given below are a few specific programs initiated/arranged by the institute:**

**Unnat Bharat Abhiyan (UBA)**

**Adaptation of five villages namely, Jaydebbati, Kate Belia, Krishnapur, Raghunathpur and Saguna, under Chakdah Block around Kalyani under the UBA and working for the development of these villages through active involvement of students.**

**Blood Donation Camp**

**Blood donation camps in the campus at frequent intervals in which students and faculty members actively participate.**

**Societal Responsibility**

**During recent Covid-19 Pandemic college student and staff with help of management took an initiative to distribute free mask, sanitizer and food packets to needy people for a prolonged time. In the college premises also different initiatives like- sanitization tunnel etc. have been installed.**

| File Description | Documents |
|---|---|
| Details of activities that inculcate values necessary to transform students into responsible citizens | **View File** |
| Any other relevant information | **No File Uploaded** |

| **7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized** | **C. Any 2 of the above** |
|---|---|

| File Description | Documents |
|---|---|
| Code of Ethics - policy document | **View File** |
| Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims | **View File** |
| Any other relevant information | **View File** |

**7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals**

The Institute organizes National and International commemorative events and festivals like Republic Day, International Women's Day, Environment Day, World Environment Day, Independence Day, Teacher's Day, Swatch Bharat Abhiyan, International Yoga Day & Samvidhan Divas.

The Institute celebrates Traditional dayslike-Basonto Utsav, Bijoyasammilani to promote unity in diversity every year. It shows respect towards all religious festivals. All the faculty and students come in Ethnic attire and have a great gathering to exhibit all the cultural festivals on the college campus. Every departmentrepresents selected festivals and everyone displays traditional wear to their best accordingly. Students are highly motivated to participate in various cultural activities.

Dr. A.P.J. Abdul Kalam's birth anniversary is celebrated as World Students day on 15th October every year as declared by the United Nations Organization (UNO). All the students gather and organize quiz competitions, talent exhibits, and presentations in their respective areas of knowledge.

The International Day of Yoga is celebrated annually on 21st June. Yoga is organized on the college premises for strengthening physical, mental and spirituality among students, faculty, and staff. Different yoga postures like Bhadrasana, Bhujangasana, Shashankaasana, Trikonasana, Uttaanaasana and Pranayama end with Meditation.

| File Description | Documents |
|---|---|
| Annual report of the celebrations and commemorative events for during the year | **View File** |
| Geotagged photographs of some of the events | **View File** |
| Any other relevant information | **No File Uploaded** |

## 7.2 - Best Practices

### 7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

BEST PRACTICE – 1

Title of the Practice

Centre for Innovation, Incubation and Entrepreneurship (IIPC)

Objectives of the Practice

- To facilitate Innovation through Research and collaboration for translating domain expertise into products or technologies.
- To Foster entrepreneurial spirit, promote startups by providing appropriate incubation facilities, offer consultancy services and improve industry institute interaction.

Evidence of Success

- Became a hub for entrepreneurial activities across the state.
- Provides necessary infrastructure support to incubate to progress in their ideas.
- Facilitates interaction between industry, institution and funding agencies to transform concept to commercialization

**BEST PRACTICE - 2**

**Title of the Practice**

**Igniting Young Minds with the Spirit of Innovation**

**Objectives of the Practice**

- **To nurture creative thinking, self-thinking and design thinking skills of each student.**
- **To provide an opportunity for apply their theoretical understanding in solution of complex challenges through project.**
- **Promotion of idea generation starting from very 1st year.**
- **To enhance Industry Institute interaction and solution of live industrial problems.**

**Evidence of Success**

**i)One startup company entitled 'JINNOAVTION' has been created involving teachers and students.**

**ii)More than 100 IPRs have been filed in past 5 years, also some projects received crowd funding.**

**iii)The Institute has produced some notable entrepreneurs & many more .**

| File Description | Documents |
|---|---|
| Best practices in the Institutional website | **https://www.jiscollege.ac.in/pdf/iicevents-2021.pdf** |
| Any other relevant information | **https://www.jiscollege.ac.in/pdf/Industry-Institute-Partnership-Cell.pdf** |

## 7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

**The Institution made a paradigm shift in teaching-learning process by introducing "Flipped Learning" and got recognition for being the pioneer institution in India to initiate full-scale Flipped Learning in Engineering education.**

**At the institute the flipped learning generally practiced in the following 6-steps:**

**i) Plan: Figure out which lesson in particular you want to flip. Outline the key learning outcomes and a lesson plan.**

**ii) Record:Instead of teaching this lesson in-person, make a video. A screencast works. Make sure it contains all the key elements you'd mention in the classroom.**

**iii) Share:Send the video to your students. Make it engaging and clear. Explain that the video's content will be fully discussed in class.**

**iv) Change:Now that your students have viewed your lesson, they're prepared to actually go more in- depth than ever before.**

**v) Group: An effective way to discuss the topic is to separate into groups where students are given a task to perform. Solve a problem, make a video, prepare small projects etc.**

**vi) Regroup:Get the class back together to share the individual group's work with everyone. Ask questions, dive deeper than ever before.**

**After the six steps, Review, Revise, and Repeat!**

| File Description | Documents |
|---|---|
| Appropriate link in the institutional website | **https://www.jiscollege.ac.in/digital-learning.php** |
| Any other relevant information | **View File** |

7.3.2 - Plan of action for the next academic year

**As per gap identified from previous planning and deployment status, the institution has devised the perspective planwhere the following priority areas will be focused for proper monitoring and reviews.**

**Student Centric Teaching Learning-The institute will introduce multidisciplinary modern courses and specific avenues in the curriculum for building student expertise and additional skillset as per choice based system. Infrastructure and laboratories will be modernized to provide state-of-the art facilities. Skill development programs will be enhanced to train students in multiple skills.**

Improvement of Academic Delivery-Students will be provided with interactive videos on all subtopics of a particular course covering the entire syllabus, through which the accessibility of a class will be 24 hrs. More interactive sessions will be conducted to provide better understanding of physical systems in ICT enabled classrooms & other facilities.

Promotion in Interdisciplinary Research-In continuation with the ongoing funded projects, new sources of research funds will be identifiedand mobilized with effective management.

Apart from these there are also some other initiatives like-

Focus on Accreditations and Rankings

Improvement in Industry Engagement

More collaborations with International Institutes/Universities

Enhanced Engagement with Society

Apart from these more initiatives will be taken in future.