JIS College of Engineering
The Annual Quality Assurance Report (AQAR) of the IQAC
1st July 2015 to 30th June 2016

Part – A

1. Details of the Institution

1.1 Name of the Institution   JIS College of Engineering

1.2 AddressLine1   Block A, Phase III,

   AddressLine2   Kalyani, Nadia

   City/Town   Kalyani,

   State   West Bengal

   Pin Code   741235

   Institution e-mail address   principal_jisce@jisgroup.org

   Contact Nos.   033 25822865 Extn:27

   Name of the Head of the Institution: Dr. Malay R Dave

   Tel. No. with STD Code: 033 25822865 Extn:27

   Mobile: 9073370505

   Name of the IQAC Co-ordinator: Dr. Somsubhra Gupta

   Mobile: 9836545777

   IQAC e-mail address: dean_academic.jisce@jisgroup.org

1.3 **NAAC Track ID** *(For ex. MHCOGN18879)*

1.4 **NAAC Executive Committee No. & Date:**   :EC No. **EC/49/A&A/44** dated **16th June 2009**
   (For Example EC/32/A&A/143 dated 3-5-2004.
   This EC no. is available in the right corner- bottom
   of your institution's Accreditation Certificate)

1.5 Website address:

   Web-link of the AQAR: www.jisce.org/AQAR2015-16.pdf

   For ex. http://www.ladykeanecollege.edu.in/AQAR2012-13.doc

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1st Cycle	B	2.72	2009	05 years
2	2nd Cycle	A	3.02	2015	05 years
3	3rd Cycle				
4	4th Cycle				

1.7 Date of Establishment of IQAC: DD/MM/YYYY :26/06/2010

1.8 AQAR for the year*(for example 2010-11)*   **: 2015 -16**

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment
   and Accreditation by NAAC((*for example AQAR 2010-11 submitted to NAAC on 12-10-2011)*

   i. AQAR2015-16   09-04-2017(dd/mm/yyyy)

   ii. AQAR2014-15   28-12-2015 (dd/mm/yyyy)

   **Sine last NAAC visit in 2014 Also uploaded at the institutional website

1.10 Institutional Status

   University   State ☐ Central ☐ Deemed ☐ Private ☐

   Affiliated College   Yes ☑ No ☐

   Constituent College   Yes ☐ No ☐

   Autonomous college of UGC   Yes ☑ No ☐

   Regulatory Agency approved Institution   Yes ☑ No ☐

   (eg. AICTE, BCI, MCI, PCI, NCI)

   Type of Institution   Co-education ☑   Men ☐ Women ☐

                           Urban ☑   Rural ☐ Tribal ☐

   Financial Status   Grant-in-aid ☐   UGC2(f) ☑ UGC12B ☑

                        Grant-in-aid +Self Financing ☐   Totally Self-financing ☑

1.11 Type of Faculty/Programme

Arts ☐   Science ☐   Commerce ☐   Law ☐   PEI (Phys Edu) ☐

TEI (Edu) ☐   Engineering ☐ √   Health Science ☐   Management ☐ √

Others (Specify)   Technology

1.12 Name of the Affiliating University *(for the Colleges)*   : Maulana Abul Kalam Azad University of Technology (MAKAUT) (erstwhile West Bengal University of Technology)

1.13 Special status conferred by Central/State Government--UGC/CSIR/DST/DBT/ICMR

etc Autonomy by State/Central Govt. /University   √

University with Potential for Excellence ☐   UGC-CPE ☐

DST Star Scheme ☐   UGC-CE ☐

UGC-Special Assistance Programme ☐   DST-FIST ☐

UGC-Innovative PG programmes ☐   Any other (*Specify*) ☐

UGC-COP Programmes ☐

2. IQAC Composition and Activities

2.1 No. of Teachers   06

2.2 No. of Administrative/Technical staff   02

2.3 No. of students   01

2.4 No. of Management representatives   02

2.5 No. of Alumni   01

2. 6 No. of any other stakeholder and community representatives   0

2.7 No. of Employers/Industrialists   :02

2.8 No. of other External Experts   :0

2.9 Total No. of members   :14

2.10   No. of IQAC meetings held   4 /annum(Quarterly)

2.11   No. of meetings with various stakeholders: No.02   Faculty: 04

            Non-Teaching Staff Students:02   Alumni:02   Others: (Management)01

2.12   Has IQAC received any funding from UGC during the year?   Yes   No√

          If yes, mention the amount

2.13   Seminars and Conferences (only quality related)

      (i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos. | 02 | International | | National | | State | | Institution Level | √ |

      (ii) Theme------ a. Best Practices for Quality Enhancement in the academic institution
                     b. Students' participation in quality improvement

2.14 Significant Activities and contributions made by IQAC

IQAC evolve mechanisms and procedures to improve the academic and administrative performance of the institution by:
- Preparing Quality Assurance Report
- Preparing Quality Benchmark
- Following up various programs with impact and outcome
- Verification of Regulation Book under autonomous structure for curriculum reforms
- Ensuring Quality in syllabus reforms and examination process by following up
- Disseminating information on various quality parameters of outcome based education.
- Introducing innovative methods of teaching, learning and evaluation
- Following up Value addition Centres and programs
- Ensurestandardizationbyregularglobalevents(Viz.InternationalSeminarin2016and Symposium in2017)
- ConductedNationalSeminar04numbersbyECE,EE,CSEandITdepartments
- Invoked inter-departmental audit

Enhance the quality of the existing programmes provided by the college such as:
- Introduced FILP learning
- Introduced Speaker's Corner, a platform for idea sharing
- Open up Value Addition Centres
- Diagnostic test & remedial classes for the weaker students
- Introduced mentorship programme
- Introduced online evaluation for class tests

- Provided training on Communication, Aptitude and Technical skill development to the students
- The process automation through ERP packages in place, staff attendance, leave application, procurement indentation is online
- Promoting Sports & Cultural activities through SLC (Student Life Centre) activities

For Institutional management capacity enhancement

- Governance development Plan in place
- Governance self-review is done periodically
- Departmentalheadsareprovidedmanagementtrainingfromleadingmanagementinstitutions

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year*

Year 2015-16: Perspective Plan

➢ Infrastructure- To complete construction of the Education block - Building Civil Engineering
➢ Infrastructure - To modernize the laboratories of Computing and Electronics dept.
➢ Infrastructure - To reinforce Power Backup System(Generator)
➢ Teaching Learning–Review Syllabus through BOS to propagate Outcome based education
➢ Teaching learning - Encourage Learning Centric Environment through ICT
➢ Teaching learning–Improve Quality of education and escalate function of NPTEL, QEEE live classes
➢ Teaching learning–Apply for the renewal of Accredited program of the eligible department
➢ Teaching Learning–Host more pedagogical program to improve teaching skill–NITTTR and other agencies
➢ Teaching Learning – Encourage enhancement of domain knowledge of the Faculty members through Faculty and Staff Development
➢ Teaching Learning–Review pattern of autonomous examination systems and go for online test with proper modalities
➢ Research–Encourage applying for the research and funded projects
➢ Research–Open incubation centre for the Core Engineering Departments and open up Innovation Centre for Core Engineering
➢ Research–Host International Events and plan to continue hosting International Conference
➢ Research - Encourage hosting workshop/seminar beyond teaching schedule
➢ Research–Apply to open Ph.D. program to University and conduct Research methodology program
➢ Research – encourage filing patent and IPR
➢ Research- Encourage travel abroad however setup a committee to examine the merit of the application
➢ Industry–make mandatory inclusion of Industry person in all statutory committee and ensure their presence in decision making (viz. BOG, AC, BOS etc..)
➢ Industry–Take up Industry projects and host Technical Symposium to show case the project works
➢ Industry-Escalate Training Programs and make Industrial visit and study tour (extend to abroad)
➢ Industry–Take feedback of the Industry in formulated curriculum and syllabus
➢ Industry–Review quality of the UG/PG projects and encourage taking Industrial problems as projects
➢ Industry - Make Industrial visit and study tour (extend to abroad)

➢ Industry–Take feedback of the Industry in formulated curriculum and syllabus	
➢ Industry–Review quality of the UG/PG projects and encourage taking Industrial problems as projects	
➢ Governance - Employ Outcome Based Education and form a Group to monitor	
➢ Governance–Reconstitute Planning Cell and IQAC and formulate action budget plan	
➢ Governance–Optimize and strengthen remedial program for weaker students	

Year 2014-15:

Outcome of previous plan (ATR 2014-15)

➢ Execution of Solid waste management effective disposal system of waste from college & hostels.	Effective disposal of Solid waste management including e-Waste in place
➢ To renovate the Electrical and water supply facilities of the college with iron removal plant and installing energy saving CFL lights.	The Electrical supply facility with proper backup system in place. Cold and pure water supply facility in place through installation of High-End Water Purifier Machine.
➢ Improve infrastructure of all the departments.	The modernization and removal of obsolete equipment's is a continuous process and renovated in the ongoing year
➢ Re arranges the laboratory support systems and makes it more users friendly.	The Laboratory support system has been renovated with Technical persons and PG scholars taking active participation during lab session.
➢ Encourage teachers to take up Research Projects.	The 2nd set of UGC minor projects applied. The 1st set of UGC minor project implementation status reviewed. The status of RPS project and projects funded by other agencies also reviewed. The Faculty members are encouraged to submit projects in Technical symposium.
➢ To improve the classroom facilities and creation of at least one smart class room per department.	The Lecture rooms are gradually being transformed to Smart Classrooms. Now each department have provision for audio- visual presentation in their Smart rooms / labs. However, transformation process is ongoing.
➢ To organize seminar already sanctioned by UGC, TEQIP &AICTE.	A29aroundworkshops/seminars were organized during TEQIP 1st Phase and more 15 around were organized after getting additional grant in TEQIP. There are JIS Group funded event as well.
➢ To organize conduct an International Conference on Electrical Engineering.	The International Conference in Non-Conventional Energy is conducted in 2014. Moreover, an International Conference on Advancement in Medical Electronics also conducted at the beginning of 2015.
➢ Make internet knowledge compulsory to prepare the assignments and projects.	The enhancement of internet facility has been made and growing tendency of the students using internet-based learning through the systems laboratories and even using their smart phones are increasing
➢ Provide an orientation programme to students to introduce the many programmes of the college.	The Newly entrant students Orientation program has been conducted on August 1st Week and addressed by versatile Speakers from RKM to Skill Development professionals.

➢ Avail the value education hours to introduce the many programmes.	The Value education and Value-added programs are annexed with regular curriculum based programs.
➢ Conduct training programmes in Personality development and soft skills more intensively.	Number of Training programs are integrated with regular curriculum programs including ICT based programs (QEEE, BMOOC, Spoken tutorial)
➢ Make the documentation of IQAC more effective with the help of software.	The IQAC documentation quality improvement is under process and Lead Universities are consulted for the same.
➢ To introduce software support for handling examination data.	The Examination system is reviewed and managing examination data with process of publication of result has been made online through Software Development wing of JIS Group.
➢ Add on more number of courses under NCVT.	The programs under NCVT and other short-term courses are annexed specially in the department having low admission.
➢ Continue the value addition programmes as part of the curriculum: Each department may start a diploma or certificate course as part of improving the curriculum content and issue certificates.	Curriculum based Value addition program are implemented. E.g. QEEE Live classes and the Course pack addressed by the National Teachers through Live programs. NPTEL courses are also being encouraged and over 1600 number of students enrolled for the NPTEL courses.
➢ Interdisciplinary programmes will be organized by way of invited talks, seminars etc. with the assistance of subject associations and various clubs functioning in the college.	The Interdisciplinary programs are organized. The International Conferences and number of workshops organized in this phase are interdisciplinary. A PG program on NST is jointly organized by two departments.
➢ Toorganizeaworkshopfor+2studentsin the state to inspire them in technological subjects.	Programsforthe10+2studentsareorganizedinwhichtheyc an display their own innovations and though. In JIS Tech Symposium there is a separate School pavilion in which school projects are awarded. Also, school networking is done in the National Seminar and as part of CEE-AMPAI and WBJEE events.
➢ Human Resource Development Training for students (HRD Training)	The students are trained in multiple skills including communication and personality development, Aptitude and Technical extended up to HR by professionals from Industry
➢ Staff Training programmes will be organized periodically to train the staff in ICT based teaching	Staff Training programs are organized in regular interval. Admin staffs attended skill development in office work program through TEQIP grant
➢ Departmental meetings be arranged every month to review the progress of the academic plan for the current year	All Statutory Committee meetings (AC, BoS, DC) occurred in frequent intervals.
➢ All departments will introduce at least one worthy practice to be emulated by other departments and colleges, with a definite goal and evidence of success.	The Good practices from the Department are shared and provisions are made to make them a Institutional practice through Academic Council (E..g the Student attendance taken by IT Dept. / Math dept.)
➢ To develop Digital Library in a full-fledged facility.	The e-Library is already in place in which 30 PC setup is installed to facilitate the readers with IEEE IEL, INDEST Journals and Open Access journals.

➢ To give a training course in website up-dations to one faculty member from each department. So that the department links in the college website may be kept current and operational.	The overall e-Governance workshop under Outcome Based Education was conducted. However, more consolidated programs are under process.
➢ To covert the campus into an echo friendly campus.	The initiatives are taken to make a Green and Echo friendly campus through various measures (E.g. hard prints are discouraged unless it is too necessary)

ACADEMIC CALENDAR

Even Semester		For Continuing Batch
1	Academic Programme Commences	January 05, 2015
2	Celebration of International Youth Day (Birth Day of Swami Vivekananda)	January 12, 2015
3	Inter College Cricket Tournament (JIS Group)	January 21- January 25, 2015
4	Governing Body Meeting	January 27 , 2015
5	International Conference 'ICAME-2015'	January 29 & 30, 2015
6	PUBLICATION OF PG RESULTS	February 6, 2015
7	Publication of UG results (autonomous)	February 17, 2015
8	Annual Sports	February 25, 2015
9	First Test Slot (UG/PG)	March 2 & 3, 2015
10	Publication of first test result	March 10, 2015
11	Examination form submission	April 24 to May 4, 2015
12	Second Test Slot (UG/PG)	April 28 & 29, 2015
13	Publication of second test result & Continuous Evaluation Report Submission	May 5, 2015
14	Special Remedial Session for slow learners	May 7 to 13 , 2015
15	Rabindranath Tagore's Birthday Celebration	May 8, 2015
16	Teaching End	May 12, 2015
17	Practical Examinations & Viva-Voce (All semester, UG & PG)	May 14 to 22, 2015
18	Theory Examinations (for all UG & PG)	June 1 to 16, 2015
19	Governing Body Meeting	June , 2015
20	Summer Recess	June 17 to June 30, 2015

ODD SEMESTER			
		New Batch	Continuing Batch
1	Academic Programme Commences	August 3, 2015	July 1, 2015
2	Admission of new students closes	July 30, 2015	
3	Induction Program for new batch	August 3 to 10, 2015	
4	Governing Body Meeting	August, 2015	
5	**Foundation Day**	**September 1**	
6	First Test Slot	September 17 & 18 , 2015	
7	Publication of first test result	September 24, 2015	
8	Mid-Semester Break	October 19 to October 26, 2015	
9	Form Fill up for ODD Semester Examination under Autonomous Structure	November 6 to 13 , 2015	
10	Second Test Slot	November 11 & 12 , 2015	
11	Registration of newly admitted students for the session 2015-2016 ends	To be announced by the WBUT	
12	Publication of second test result	November 18 , 2015	

13	Teaching End	November 19 , 2015
14	Governing Body Meeting	November , 2015
15	Practical Examinations & Viva-Voce (All semester, UG & PG)	November 20 to 30 , 2015
16	Theory Examinations (for all UG & PG)	December 3 to 22 , 2015
17	Inter Semester Break	December 25, 2015 – January 04, 2016

***Visitwebsiteswww.jiscollege.ac.in/www.jisgroup.orgforannouncementsregardingRegistration, Examinations time to time.

Attach the Academic Calendar of the year as Annexure.

2.16 Whether the AQAR was placed in statutory body   Yes | √ | No | |

Management | √ | Syndicate | | Any other body | |

Provide the details of the action taken

Inter – departmental audit and other quality measures placed at IQAC.

Part – B

Criterion – I

1. **Curricular Aspects**

Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	-	-	-	-
PG	4	-	4	
UG	7	-	7	
PG Diploma				
Advanced Diploma				
Diploma				
Certificate				
Others				
Total	11		11	

Interdisciplinary				
Innovative				

(i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester √	19
Trimester	
Annual	

Feedback from stakeholders*   Alumni √   Parents √   Employers √   Students √
(On all aspects)

Mode of feedback   :   Online ☐   Manual √   Co-operating schools (for PEI) ☐

* Please provide an analysis of the feedback in the Annexure

(Illustrative: https://jiscollege.ac.in/academic-feedback.php)

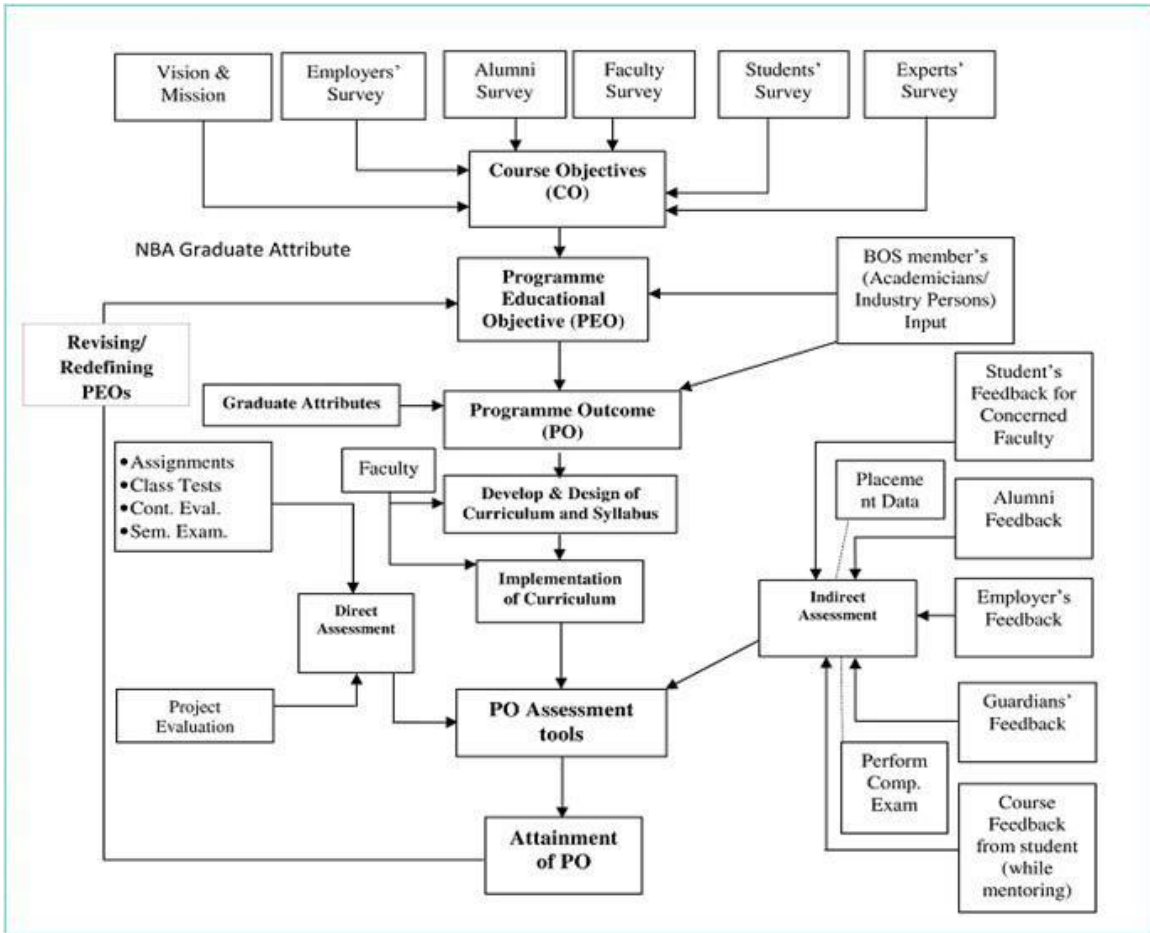Based upon the following PEO-PO the analysis of Feedback has been provided in the following:

Diagram 2: Stakeholders' Feedback at Outcome based education Framework

Whether there is any revision / update of regulation or syllabi, if yes, mention their salient aspects.

Engineering up skilling and leading capability associated with specific domain knowledge enhancement of students are main criteria on curriculum design. Most significantly, this upgradation is accelerated periodically by addressing Local, National, Regional and Global developmental requirement. The curriculum/syllabus feedback process is transparent and quantitative in nature. Suggestion receiving from several stake holders have been considered and justified by the strong Board of Study (BOS) and Academic Council (AC) structure towards the implementation. The main backbone of syllabus originated from AICTE Model Curriculum including emerging area. Six factors are considered towards the curriculum development as follows: (i) Emerging Technology and Innovations, (ii) Developmental needs in several levels, (iii) Opinion of Stake holders, (iv)Suggestions from Professional bodies, (v) Review of Curriculum of National & International Universities, (vi)Standardized tests and competitive exams at end of program (GATE, GRE, IES etc.) Intellectual Competence, Social Commitment, Civic Responsibility are additional points considered towards implementation of autonomy curriculum. Curriculum design is the most significant aspects of academic quality enhancement processes of an organization. Outcomes based Curriculum Framework towards our national need (Employability/ Entrepreneurship/ Upskilling) have been implemented prominently.

Title of the course, course contents, versatile electives, complete information of the course and the curricular structure is well furnished. The Course Outcome (COs), Program Outcomes (POs) and Program Specific Outcomes (PSOs) synchronization creation through CO-PO mappings is defined perfectly. Percentage of new Courses and Elective course introduced is adequate in nature. The value-added courses imparting transferable and life skills introduction in curriculum is practicing. In association, field projects / internship activities are well established in this institution through innovation aspects of curriculum. Towards the sustainability of our civilization, Environment is essential factor. It is a social responsibility for an Engineering to contribute innovation towards the improvement of our environment. In association with the human value and professional ethics are mandatory parts of a student to become a complete engineer. Curriculum structure integrates all the essential ingredients.

Any new Department/Centre introduced during the year. If yes, give details. : No new department.
However, the following Centre is opened:

- **Centre for Quality Enhancement in Engineering Education (QEEE):** this centre is TEQIP funded to conduct live classes for the Students by the National Teachers. This lab is according to the framework of MHRD and resourced by IIT Chennai. QEEE Course Pack in selected subjects are attended by the students across the Disciplines.
- **Collaborative Learning and Innovation Centre (CLIC):** This centre is initiated through collaboration with **Tata Technologies** for enhancement of professional skills in the core engineering Section. The students with the background of Civil, Mechanical and Electrical Engineering background were benefited through the range of activities from Industrial training to Industrial visit.

Criterion – II

1. Teaching, Learning and Evaluation

1.1 Total No. of
permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
202	162	20	20	

1.2 No. of permanent faculty with Ph.D. | 52 |

1.3 No. of Faculty Positions
Recruited (R) and Vacant (V)
during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
11				03				14	

1.4 No. of Guest and Visiting faculty and Temporary faculty | 11 | | - | | - |

1.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	38	16	6
Presented papers	34	08	-
Resource Persons	NA	-	5

1.6 Innovative processes adopted by the institution in Teaching and Learning:

- **Teaching _Learning Process and co-curricular**
    - The Institute under Autonomous Structure adopted ICT based learning from the inception of the Autonomy. Previously, Audio Visual Teaching Aids were used selectively.
    - IIT Bombay Remote Centre, Resource Center and IIT Chennai resourced QEEE Centre were established.
    - In the recent past, the Institution made a paradigm shift in teaching –learning by introducing "Flipped Learning" mandatorily.
    - NPTEL Centre coordinated by IIT Kharagpur has been established.
    - The Spoken tutorials are launched.. coordinated by IIT Bombay
- **Skill Development and Communication Initiative**
    - The British Council Centre of Communication has been launched. The BCL membership is in place and efforts are on to launch "APTIS" module in the quest of betterment of communication skill.
    - Number of Value addition Centers has been established to boost both the domain knowledge, skills and encouraging innovation

- The Collaborative Learning and Innovation Centre (CLIC) by the Tata Technologies has been setup and students of core engineering are trained with State-of the Art Tools 'public speaking' ability.
- "Speaker's Corner" is an initiative to provide the students platform to share their ideas and also to improve on their

- **Research and Innovation**
    - The number of research projects through funding agencies multiples under autonomy. Innovations are encouraged to the extent under autonomous Framework.
    - The Projects from Regulatory Bodies (like AICTE MODROB-RPS, UGC minor project) as well as from other agencies DST, CSIR were granted only under autonomous structure.
    - CII innovation Centre has been setup. Number of workable patent are filed and expected to be commercialized after patents are granted
    - Number of Value addition Centers has been established to boost both the domain knowledge, skills and encouraging innovation
    - The Collaborative Learning and Innovation Centre (CLIC) by the Tata Technologies has been setup and students are trained with State-of the Art Tools

1.7   Total No. of actual teaching days

   during this academic year

230

1.8   Examination/ Evaluation Reforms initiated by
   the Institution (for example: Open Book Examination, Bar Coding,
   Double Valuation, Photocopy, Online Multiple Choice Questions)

- **Examination Reforms**
    - The examination reforms took place under autonomous structure. This is different than MAKAUT structure
    - A portion of the paper setting and evaluation of scripts is done externally from lead Universities / Institutions.
    - Mandatory review of results by the BoE before results publication
    - Results are also available online
    - On-line Class tests have been conducted.
    - Continuous Performance Evaluation is made effective.

Efforts are on to conduct Flipped / Digital Evaluation and assessment

1.9   No. of faculty members involved in curriculum
   restructuring/ revision/ syllabus development
   as member of Board of Study / Faculty / Curriculum Development workshop

120	120	120

- All Departmental Committee members are part of BOS.
- 8-teachnolgoical disciplines each having a DC team-size around 15. All of them are member of BOS in addition to Expert members from University and Industry.
- All of them attended curriculum workshop organized at various times after obtaining autonomy (viz. NITTTR pedagogical workshop etc..), associated with restructuring / revision of syllabus.

- All the above information is applicable to UG autonomy as Academic autonomy was availed from the commencement of each and every PG courses.

1.10 Average percentage of attendance of students

| 75 |

1.11 Course/Programme wise distribution of pass percentage : 2016 Pass out Batch

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
BME	20	40%	20			100%
CE	144	30%	143			99.3%
CSE	97	32%	97			100%
ECE	114	40%	112			98.2%
EE	106	31%	104			98.1%
EIE	25	28%	24			96%
IT	27	30%	27			100%
ME	140	22%	138			98.5%
AEIE	3	67%	3			100%
MCSE	4	75%	4			100%
MCNT	8	88%	8			100%
EDPS	7	86%	7			100%
ITSE	1	100%	1			100%
MME	2	50%	2			100%

1.12 How does IQAC Contribute / Monitor / Evaluate the Teaching & Learning processes:

Course-coverage is monitored by HOD and reports the same to the Principal. Wherever, a deviation is observed, the HOD seeks clarification from the faculty member concerned and connect Mentor. Special remedial class work is planned. The evaluation procedure for both theory and lab exams are kept transparent. The teacher issues answer scripts of the periodical tests to students and internal lab examinations with his / her comments. Discrepancies reported by any student are verified and necessary action is taken before the marks statement is finalized. When a student feels dissatisfied with marks allotted, he / she may seek the intervention of the HOD. If the problem remains unaddressed, then the student may bring it to the attention of the principal. The mentoring

programme and Continuous evaluation system continuously with regular academic process.

First year students are given Hand Book containing:

Academic Calendar, Class & Examination Schedules, Syllabus etc

The following information is given at the college website and Notice Boards,

- Statement of Vision and Mission
- Rules and regulations
- Anti-Ragging Declarations and college facilities against ragging
- Necessary contact person's name with phone numbers.
- Events schedules

1.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	
UGC – Faculty Improvement Programme	
HRD programmes	04
Orientation programmes	01
Faculty exchange programme	
Staff training conducted by the university	03
Staff training conducted by other institutions	05
Summer / Winter schools, Workshops, etc.	10
Others (Seminars) International Conference: 1 International Symposium: 1	10

1.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	36			
Technical Staff	40			

Criterion – III

III Research, Consultancy and Extension

Initiatives of the IQAC in Sensitizing / Promoting Research Climate in the institution:

Enhancement of R&D and institutional consultancy activities:

Area: Number of research projects by the faculty individually, jointly, and collaboratively. Expected outcome of each project

- Submission of maximum no. of projects to the funding authorities throughout the year with a projected plan along with budget

- Getting DSIR certification for getting project funding from funding agencies like DBT.

- Setting up various MOUs with reputed Industries and emphasis to be given on solving live problems of the Industry as R&D problem.

- Mini-projects/Innovative experiments need to be introduced at each of UG level practical course with an objective to nurture the innovative mindset of the students and produce future generation researchers.

- To make some of the PG projects interdisciplinary in nature. Where, active participation and knowledge sharing across the departments become possible.

- Annual R&D news may be published to highlight achievements in various sectors of research and development across the discipline.

Area: Research papers publication

- Emphasis on interdisciplinary research work.
- Motivate young faculty members more on R&D publication in good quality journals.
- Involve, PG students in the process of publication.

Area: Organization of in-house seminar conferences

- 1 National, 2 Regional, 4 Institutional Seminar should be organized per department per annum.
- At least 1 International Conference should be organized per annum

Area: Patenting of R&D work

- More patent proposal to be submitted.
- R&D cell may organize one workshop on issues related to patenting, which will highlight the entire process of patenting R&D achievements and related rules.

Area: State of the R&D software

☐ Procurement of more quality R&D centric software packages depending on the availability of funding.

Area: Qualification up gradation (National/International)

- Support paper publication only in SCI indexed journals.
- Motivate young faculty members in PhD enrolment.
- The Institute has been already selected as the centre for conducting PhD course work. Proper utilization of this opportunity as well as develop a perfect platform for quality up gradation from the Institute itself.

Area: Subject knowledge and research competence up gradation (National/International) and Participation in seminars, conference, workshop (National/International)

- Emphasis on larger participation of faculty members in seminar/conference within the Country.
- Special emphasis on paper presentation and Invited talk rather than only participation.

Area: Institutional Management Capacity enhancement

- Motivate more senior faculty members in events related to Management Capacity Enhancement.
- Motivate middle level faculty members in participating workshops on 'Outcome based system'.

   - The number of research projects through funding agencies multiples under autonomy. Innovations are encouraged to the extent under autonomous Framework.
   - The Projects from Regulatory Bodies (like AICTE MODROB-RPS, UGC minor project) as well as from other agencies DST, CSIR were granted only under autonomous structure.
   - CII innovation Centre has been setup. Number of workable patents are filed and expected to be commercialized after patents are granted
   - Number of Value addition Centers has been established to boost both the domain knowledge, skills and encouraging innovation.

The Collaborative Learning and Innovation Centre (CLIC) by the Tata Technologies has been setup and students are trained with State-of the Art Tools.

Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number		7		
Outlay in Rs. Lakhs		100		

Note: UGC major projects are not applied yet.

List of funded projects

Sl. No	Title of the Project	Granting Authority	Letter No.	Amount of Grant	Principal Investigator or equivalent
1	Carrier Award for Young Teachers (CAYT)	AICTE	AICTE (CAYT) 11-45/RIFD/CAYT/POL-I/2014-15 dt. 16.03.2015	-	Dr. Biswarup Neogy
2	Design & Development of a Cardiac parameter Monitoring System using common mobile phone for affordable patient care	AICTE (RPS)	AICTE (RPS) 20/AICTE/RIFD/RPS (Policy-1)32/2013-14	10,55,000/-	PI: Dr. Meghmala Dutta & Dr. Somsubhra Gupta
3	Produce the knowledge-based database of electromyography (EMG) signal to enrich the interpretation technique for different human arm movement.	AICTE (RPS)	AICTE (RPS) 20/AICTE/RIFD/RPS(Policy-IV)24/2012-13 dt. March 16, 2014		Dr. Biswarup Neogi
4	Solar Photovoltaic hybridization with usual grid to compensate peak load demand at JIS College of Engineering Kalyani.	AICTE (RPS)	AICTE (RPS) 20/AICTE/RIFD/RPS(Policy-IV)24/2012-13 dt. March 16, 2014	8,00,000/-	Rakesh Naskar
5	Natural language processor incorporating auto-debugger under the framework of machine intelligence.	AICTE (RPS)	AICTE (RPS) No: 20/AICTE/RIFD/RPS (POLICY-1) 33/2013-14		Dr. Somsubhra Gupta
6	'In silico design of novel molecular spintronic devices through nonequilibrium Green's function technique'	CSIR	CSIR [letter No. 03(1256)/12/EMR-II Dated:06-11-2012]		Dr. Sabyasachi Sen
7	TEQIP-II Grant Sub Comp. 1.2	MHRD	NPIU		Institutional

Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number		24		
Outlay in Rs. Lakhs		INR 72,09,000		

List of funded projects

Sl. No	Title of the Project	Granting Authority	Letter No.	Amount of Grant	Principal Investigator or equivalent
1	UGC Minor Project	UGC	PSW -190/14-15(ERO) dt. 03.02.2015	Rs. 4,70,000/-	ECE (Moumita Pal)
2	UGC Minor Project	UGC	PSW -191/14-15(ERO)dt. 03.02.2015	Rs. 4,00,000/-	BME (Souvik Das)
3	UGC Minor Project	UGC	PSW -192/14-15(ERO) dt. 03.02.2015	Rs.80,000/-	ECE (Anirban Patra)
4	UGC Minor Project	UGC	PSW -193/14-15(ERO) dt. 03.02.2015	Rs. 4,75,000/-	ECE (Swastika Chakraborty)
5	UGC Minor Project	UGC	PSW -194/14-15(ERO) dt. 03.02.2015	Rs. 5,00,000/-	ECE (Dr. Biswarup Neogi)
6	UGC Minor Project	UGC	PSW -195/14-15(ERO) dt. 03.02.2015	Rs. 4,95,000/-	ECE (Dr. Indranath Sarkar)
7	UGC Minor Project	UGC	PSW -196/14-15(ERO) dt. 03.02.2015	Rs. 4,20,000/-	IT (prolay Ghosh)
8	UGC Minor Project	UGC	PSW -197/14-15(ERO) dt. 03.02.2015	Rs. 2,85,000/-	IT(Suparna Dasgupta)
9	UGC Minor Project	UGC	PSW -198/14-15(ERO) dt. 03.02.2015	Rs. 3,00,000/-	IT (Debasree Mitra)
10	UGC Minor Project	UGC	PSW -199/14-15(ERO) dt. 03.02.2015	Rs. 1,50,000/-	IT (Soham Sengupta)
11	UGC Minor Project	UGC	PSW -200/14-15(ERO) dt. 03.02.2015	Rs. 4,20,000/-	EIE (Sayanti Chattopadhyay)
12	UGC Minor Project	UGC	PSW-182/13-14 dt 02-09-2014	Rs. 4,70,000/-	BME (Dr. Meghamala Dutta)
13	UGC Minor Project	UGC	PSW-183/13-14 dt 02-09-2014	Rs. 2,50,000/-	Chem (Tanmoy Dutta)
14	UGC Minor Project	UGC	PSW-184/13-14 dt 02-09-2014	Rs. 2,60,000/-	Chem(Dr. Mahuya Das)
15	UGC Minor Project	UGC	PSW-185/13-14 dt 02-09-2014	Rs. 3,38,000/-	CA (Dr. Subhranil Som)
16	UGC Minor Project	UGC	PSW-186/13-14 dt 02-09-2014	Rs. 4,00,000/-	CSE (Satrughna Singha)
17	UGC Minor Project	UGC	PSW-187/13-14 dt 02-09-2014	Rs. 3,06,000/-	CSE(Sumanta Chatterjee)
18	UGC Minor Project	UGC	PSW-188/13-14 dt 02-09-2014	Rs. 2,05,000/-	Chem (Trina Dutta)
19	UGC Minor Project	UGC	PSW-189/13-14 dt 02-09-2014	Rs. 4,70,000/-	Physics(Dr. Swagata Bhattacharjee)
20	UGC Minor Project	UGC	PSW-190/13-14 dt 02-09-2014	Rs. 4,70,000/-	Physics(Dr. Sabyasachi Sen)
21	UGC Minor Project	UGC	PSW-191/13-14 dt 02-09-2014	Rs. 3,75,000/-	BME (Dr. Sandip Bag)

22	UGC Minor Project	UGC	PSW-192/13-14 dt 02-09-2014	2,60,000/-	CSE (Monalisa Dey)
23	UGC Minor Project	UGC	Published in UGC website dated 09/09/2016, letter not yet received	Rs. 190,000/-	BME (Mr. Rupak Bhattacharjee)
24	UGC Minor Project	UGC	Published in UGC website dated 09/09/2016, letter not yet received	Rs. 3,75,000/-	BME (Mr. Santanu Mondal)

Details on research publications

	International	National	Others
Peer Review Journals	45	1	
Non-Peer Review Journals			
e-Journals			
Conference proceedings			

Details on Impact factor of publications:

Range [   ]   Average [   ]   h-index [   ]   Nos. in SCOPUS [   ]

Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	-	--	-	-
Minor Projects	-	-	-	-
Interdisciplinary Projects	-	-	-	-
Industry sponsored				
Projects sponsored by the University/ College	1 year	JIS College of Engineering	1292300/-	1286114
Students research projects *(other than compulsory by the University)*				
Any other(Specify)				
Total				

[   ]

No. of books published   i) With ISBN No. [   ]   Chapters in Edited Books [3]

ii) Without ISBN No. [   ]

No. of University Departments receiving funds from

UGC-SAP		CAS		DST-FIST	
DPE				DBT Scheme/funds	

For colleges   Autonomy [√]   CPE [ ]   DBT Star Scheme [ ]

INSPIRE [ ]   CE [ ]   Any Other (specify) [ ]

Revenue generated through consultancy   [-]

No. of conferences organized by the Institution

Level	International	National	State	University	College
Number					
Sponsoring agencies					

No. of faculty served as experts, chairpersons or resource persons   [10]

No. of collaborations   International [1]   National [3]   Any other [4]

No. of linkages created during this year   [2]

Total budget for research for current year in lakhs: 100 Lacs (100 Lacs under

 TEQIP)

From Funding agency   [√]

From Management of University/College   [√]

Total   [100 Lacs]

No. of patents received this year

Type of Patent		Number
National	Applied	9
	Granted	-
International	Applied	
	Granted	
Commercialised	Applied	
	Granted	

No. of research awards/ recognitions   received by faculty and research fellows
Of the institute in the year

Total	International	National	State	University	Dist	College
3		3				

No. of faculty from the Institution
who are Ph. D. Guides
and students registered under them

-

-

No. of Ph.D. awarded by faculty from the Institution   -

No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF [   ]   SRF [1]   Project Fellows [   ]   Any other [   ]

No. of students Participated in NSS events:

University level [4034]   State level [   ]

National level [   ]   International level [   ]

No. of students participated in NCC events:

University level [367]   State level [   ]

National level [   ]   International level [   ]

No. of Awards won in NSS:

University level [-]   State level [   ]

National level [   ]   International level [   ]

No. of Awards won in NCC:

University level [   ]   State level [   ]

National level [1]   International level [   ]

No. of Extension activities organized

University forum [   ]   College forum [11]   (Club activities)

NCC [5]   NSS [10]   Any other [   ]

Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

- Special emphasis on Club Activities under autonomous framework
- Different clubs viz. Engineering Modeling Club, Science Club, Literature Club, Photography Club setup after obtaining Autonomy.
- Corporate Social responsibility (CSR) programs through Community Connect Club are a regular practice.
- Various Sports and Cultural tournaments conduction and participation by the students is a regular activity after obtaining autonomy.

Institutional Social Responsibility:
- Visit to Oldage home and program through Community Connect Club
- Visit to Orphanage Home
- Visit to School and donate accessories

Criterion – IV
4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	17.5			
Class rooms	67	7 smart rooms		
Laboratories	70			
Seminar Halls	2			
No. of important equipments purchased (≥ 1-0 lakh) during the current year.	7			
Value of the equipment purchased during the year (Rs. in Lakhs)	27			
Others				

** QEEE Server and IBM server, ECG machine etc..in RPS.

4.2 Computerization of administration and library:

Electronic resources:
E-Books:
Central Library-JISCE subscribed 640 e-books package of IEEE-Wiley. In College campus all around it is visible in IEEE's website. Users may download, print and read.

E-Journals:

Being a self-supported member of the AICTE-INDEST Consortium (Since January, 2007), online access facility to IEEE/IEE Electronics Library (IEL Online) The IEEE ASPP provides access to IEEE's core collection of technology journals. With peer-reviewed publications concentrating on theoretical and experimental papers, as well as practical applications in research, design, and specification, ASPP offers valuable research on a variety of topics. which includes:

179 IEEE online society-sponsored journals, transactions, and magazines

Institutional Digital Repository: JIS College of Engineering:

Link is: http://172.17.80.5:8080/jspui/

JIS College of Engineering, Central library setup a repository to management of e-resource. Repository has following category of documents:

Conference Proceeding Course Material E-Books E-Journals Faculty Publication Lecture Note NPTEL Wireless Communication Online Course Video Lectures-IIT Delhi-NPTEL Question Papers Tutorials Video Lectures

1700 document has been digitized and uploaded into digital library. It should be accessible to around the college campus.

Library Automation:

The integrated library management software (LibSys) was procured in 2004. The preparation of database for books, loose issues of journals (retro-conversion) and membership (or users database) using this software has already being completed. The addition of books and other learning materials are being entered regularly in to the system to make the library database comprehensive and up-to-date. The charging and discharging of books to faculty members and students are being done using this system is continued. The library has already procured and installed high-end IBM computer server with redundant power supply for smooth operation of the library management system (LibSys) and safe archival of library database. This state-of-the-art server increases the database security. As a result, it reduces the chance of system failure leading to loss of data.

4.3 Library services:

At present, the library has more than **88,042** copies of books, **6,080 titles** and 2,900CD-ROMs in its collection besides it subscribes 121 (108+13) printed journals.

Course	Academic Year	Subject	Number of titles	Number of volumes	National Journals (Printed)	International Journals (Printed)	E-Journal s
B.TECH IN:	2016 -17	Computer science & Information Technology	1262	14,150	108	1 3	208 Title in IEEE
CSE, IT, EE, EIE, ECE, ME, BME,CE		Computer Application (CA)	227	4,460			Member of AICTE INDEST
M.TECH IN:		Electrical engineering	213	9,138			Consortium and
		Electronics & Instrumentation	195	5,163			

EDPS, MCNT, MCSE, SE	engineering					subscri
	Electronics & Communication Engineering	606	9,075			

MCA & MBA		Chemistry, Bio-science & EVS engineering	368	4,811	be IEL Online
		Mechanical engineering	517	8,249	
DEE		Civil Engineering	105	4,508	
		Humanities	210	2,725	
		Mathematics	358	5,269	
		Physics	195	5,619	
		Management	1310	10,088	
		M.Tech	490	4,096	
		Electrical Diploma	24	691	
		TOTAL	**6,080**	**88,042**	

4.4 Technology up gradation(overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart-ments	Others
Existing	800	12	50 mbps railtel	Yes	Yes		CSE/ IT/CA	ECE/ EE/ EIE
Added	50							
Total	850							

4.5   Computer, Internet access, training to teachers and students and any other programme
for technology up gradation (Networking, e-Governance etc.)

-        Number of computing systems with different computational environment viz. Client Sever, N-computing, Cloud etc.
-        Internet connection of 50mbps(Railtel) and emergency admin connection through BSNL
-        Training to teachers through live classes in Smart Classrooms via IIT-NMEICTISTE workshops in the summer and winter. JISCE is an remote centre(RC-1335)
-        Design Lab certification to the students via online exam under IIT-MHRD framework
-        Technology up-gradation in various operations like payroll management, biometric employee attendance, material requisition etc.
-        Technology up-gradation in research viz. Solar Light installation via RPS project
-        Wi-fi enabled audio visual Project presentation Lab for skill enhancement
-     State of art Language Lab

4.6 Amount spent on maintenance in lakhs: (2014-15)

    i) ICT

| 10.67 |

    ii) Campus Infrastructure and facilities

| 6.01 |

    iii) Equipments

| 15.93 |

    iv) Others

| |

                                 Total :

| 32.62 |

Criterion – V
5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

> - Students representative In IQAC
>
> - IQACinstrumentalinformulationofStudentsLifeCentre.Atotalof11clubactivities are there for the students
>
> - Sports Club ,Science Club, Engineering Modelling Club, Mathematics Club are few illustration.
>
> - Internal Quality Assurance Cell formulated the appraisal through stakeholders feedback in assessing students support.

5.2 Efforts made by the institution for tracking the progression

> - Monitoring and evaluation
> - Mentoring
> - Appraisal
> - Feedback
> - Continuous performance evaluation

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
2681		-	-

  (b) No. of students outside the state

| 336 |

  (c) No. of international students

| 25 |

Men	No	%		Women	No	%
	2255	84.11			426	15.88

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
397	95	1	105		598	352	42	3	74		471

2014-15	2015-16

Demand ratio   Dropout %

5.4 Details of students support mechanism for coaching for competitive examinations (Ifany)

- GATE Coaching for the student
- Coaching for GMAT/CAT
- Aptitude training by Professional House for Competitive exams.

No. of students beneficiaries   446

5.5 No. of students qualified in these examinations

NET [ ]   SET/SLET [ ]   GATE [2]   CAT [ ]

IAS/IPS etc [ ]   State PSC [ ]   UPSC [ ]   Others [4]

5.6   Details of student counselling and career guidance

- Students counseling are done in multiple platforms viz. departments through mentorship programme
- Domain Specific training
- Aptitude training as Career guidance via Placement Cell
- Via TEQIP Equity Action Programme etc.

No. of students benefitted   546

5.7 Details of campus placement

On campus			Off Campus
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
40	621	426	122

5.8 Details of gender sensitization programmes

- Gender sensitization is taken into account in right from admission to equity action plan so as to ensure a balanced ratio between male-female.
- Institutional Women Cell is instrumental in hosting awareness programme
- The equity factor is evident at objective of the institution in treating everyone equally

5.9 Students Activities

    5.9.1   No. of students participated in Sports, Games and other events

        (Cricket, Tech Symposium, other Tech Fest, AICTE Hackathon, NPTEL)

        State / University level   **200**   National level   **15**   International level

        No. of students participated in cultural events

        (College events, Book Fair)

        State/University level   **73**   National level   **5**   International level   **35**

    5.9.2   No. of medals /awards won by students in Sports, Games and other events Sports :

State/University level   **10**   National level   **-**   International level   **-**

Cultural: State/University level   **25**   National level   **-**   International level   **4**

Year	Name of the award/ medal	Team / Individual	inter-university / state / National/ International	Name of the event	Name of the student
2015-2016	Winner	Team	Inter-University	Cricket Premier League 2016	JISCE Cricket Team
2015-2016	Winner	Team	Inter-University	KCEM Challengers Cricket Tournament 2016	JISCE Cricket Team
2015-2016	Runner Up	Team	Inter-University	BBIT CHAMPION'S TROPHY 2016	JISCE Cricket Team
2015-2016	Runner Up	Team	Inter-University	3RD SARDAR JODH SINGH CHALLENGERS TROPHY 2019	JISCE Cricket Team
2015-2016	2nd	Individual	Inter-University	IDEAL INSTITUTE OF ENGINEERING Inter College Sports Meet 2016: Run 1600M	Aslam Hossain Molla
2015-2016	2nd	Individual	Inter-University	IDEAL INSTITUTE OF ENGINEERING Inter College Sports Meet 2016: Long Jump	Vivek Kumar
2015-2016	3rd	Individual	Inter-University	IDEAL INSTITUTE OF ENGINEERING Inter College Sports Meet 2016: Throwing Discus	Pradip Ghosh
2015-2016	3rd	Individual	International	GIS Map making Competition: Education camp & Study Tour 2016 AIT, Thailand	Tuhin Dutta
2015-2016	2nd	Individual	International	GPS Pack Rat Game: Education camp & Study Tour 2016 AIT, Thailand	SubhamSenGupta
2015-2016	1st	Individual	Inter-University	Aamar Durga Puja Photography Contest 2016	Koustav Das
2015-2016	Runner Up	Team	Inter-University	STCET: Inter College Football Tournament 2016	JISCE Football Team
2015-2016	Winner	Team	Inter-University	STCET: Inter College Cricket Tournament 2016	JISCE Cricket Team
2015-2016	Winner	Team	Inter-University	KCEM Challengers Football Tournament 2016	JISCE Football Team
2015-2016	3rd	Individual	International	Solo Vocal Competition: Education camp & Study Tour 2016 AIT, Thailand	Md. Arif Alam
2015-2016	3rd	Individual	International	Dance Competition: Education camp & Study Tour 2016 AIT, Thailand	TithiSingha Roy
2015-2016	1st	Individual	Inter-University	JAGRITI 2016: Eastern Vocal Solo Competition	Subham Kumar Mahanty
2015-2016	1st	Individual	Inter-University	NITMAS Impulse 16: Drama Competition	Aroma Mukherjee
2015-2016	1st	Individual	Inter-University	NITMAS Impulse 16: Solo Song Competition	Soumita Mondal
2015-2016	2nd	Individual	Inter-University	NITMAS Impulse 16: Drama Competition	Madhura Sur
2015-2016	1st	Individual	Inter-University	NITMAS Impulse 16: Musical Instruments	Arpan Hazra
2015-2016	1st	Individual	Inter-University	IDEAL Institute of Engineering :Inter College Cultural Meet	Durba Santara

				2016	
2015-2016	3rd	Individual	Inter-University	IDEAL Institute of Engineering :Inter College Cultural Meet 2016	Sucharita Maity
2015-2016	2nd	Individual	Inter-University	IDEAL Institute of Engineering :Inter College Cultural Meet 2016	Subham Kumar Mahanty
2015-2016	1st	Individual	Inter-University	JISTech2k16:Wall Magazine Competition	Pritam Bhattacharaya
2015-2016	2nd	Individual	Inter-University	JISTech2k16: Sand Art Competition	Pronoy Mondal
2015-2016	1st	Individual	Inter-University	JISTech2k16:Video Making Competition	Rajeev Kumar Singh
2015-2016	2nd	Individual	Inter-University	JISTech2k16: Gamezone	Partha Adhikary
2015-2016	2nd	Individual	Inter-University	JISTech2k16:Travel vlog Contest	Aatish Raj
2015-2016	2nd	Individual	Inter-University	JISTech2k16: Poetry Competition	Rajesh Pachhal
2015-2016	1st	Individual	Inter-University	JISTech2k16:Photography Competition	Abhishek Chatterjee
2015-2016	3rd	Individual	Inter-University	JISTech2k16:TechTalk Competition	Anandarup Ghosh
2015-2016	2nd	Individual	Inter-University	JISTech2k16: Creative Art Competition	Ananta Mandal
2015-2016	1st	Individual	Inter-University	JISTech2k16:Photography Competition	Aroma Mukherjee
2015-2016	3rd	Individual	Inter-University	JISTech2k16: Poetry Competition	Arunima Jana
2015-2016	1st	Individual	Inter-University	JISTech2k16: Hand Craft Competition	NabanitaGhosh
2015-2016	1st	Individual	Inter-University	JISTech2k16: Debate Competition	AnanyaBhowmik
2015-2016	1st	Individual	Inter-University	JISTech2k16: Wall Magazine Competition	Rama Basak
2015-2016	2nd	Individual	Inter-University	JIS Tech 2k16: Sand Art Competition	Pooja Das
2015-2016	2nd	Individual	Inter-University	JISTech2k16: Gamezone	Geetanjali Saha

5.10 Scholarships and FinancialSupport

	Number of students	Amount (in lacs)
Financial support from institution	67	22.75
Financial support from government	491	210.53
Financial support from other sources	0	0
Number of students who received International/ National recognitions (TEQIP scholarship –world bank)	Included in Govt. support	

5.11   Student organised /initiatives

Fairs   : State/University level [2]   National level [   ]   International level [   ]

Exhibition: State/University level [4]   National level [   ]   International level [   ]

5.12   No. of social initiatives undertaken by the students   [   ]

5.13 Major grievances of students (if any) redressed: _____

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision
Our Vision is to generate a stimulating academic environment for higher learning and to bring about a harmonious development of personality among the students by fostering leadership values and importing high degree of professional skills.

Mission
Our mission is to provide excellent educational infrastructure and academic ambiance conducive to higher learning by setting up centers of excellence and instill a sense of ethics and value system among the students. We are committed to provide opportunities to the students to develop their full potential and professional growth and to spread the light of higher education.

6.2 Does the Institution has a Management Information System

Yes. The following activity heads are maintained through MIS:
1. Accounts and financial works
2. Store and material requisition
3. Staff attendance biometric and leave approval
4. Library and information science (through libsys)

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1   Curriculum Development

5. Institutionalobjectivemustbereflectedindepartmentalprogrammeeducational objective(PEO).
6. Stakeholders(student,guardian,alumni,employer)feedbackmustbetakenand analysed before framing out the syllabus.
7. TheBOSofalltechnologicaldepartmentsmusttakeintoaccounttheInstitutional Vision, Mission and objective and frame the Curriculum accordingly.
8. The credit range has been suggested
9. There should be a balance between professional core, professional elective and free electives with basic science, engineering science and humanities subjects.
10. Curriculum must be outcome based
11. Attainment parameters and measurement of outcome has to be given immense importance.

6.3.2 Teaching and Learning

Improving existing teaching method by adopting a mix of new techniques-

1. Lecture method- interactive technique-case study- tv commercials
2. Simulation – problem based learning
3. Groupdiscussion-pictureprompt-individualpresentation-tournament–role play
4. Assignment
5. Workshops
6. Brainstorming
7. Learning by doing –web based instruction etc..

6.3.3 Examination and Evaluation

The following reforms has been made–
- Class tests has been conducted online
- Each course syllabus has been parted in to Section A, Section-B. One part is set internally and another part externally from lead Universities/institutions of the state in the case of UG.
- In PG, half of the papers are set externally and remaining half internally from the lead Universities/Institutions.
- Evaluation and result declaration time line is set with in 1 month.
Maintaining Evaluation standard has been given high priority

6.3.4 Research and Development

Research is the key factor in the institutional identity and overall grading and rating of the institution. Innovative research gives recognition to an institute. On the contrary, institute which are weak in research become dependent on the outside supply of the knowledge. Faculty members of JISCE shall involve in conduction and publication of quality research.
- To facilitate improvement in research quality
- To publicize programme strengths to attract top students, faculty and funding
- To identify potential research collaborators
- To make more rational and strategic resource allocation decision.
Following research bench marking criterion has been introduced:
- Number of highly cited researchers in the institute
- Academic performance per faculty
- Total article sin reputed journals
- Number of citations
- H-index of institute and individual faculty members
- International collaborations

6.3.5 Library, ICT and physical infrastructure /instrumentation

Recommendation for library includes:
- Online library management systems.
- Enough reading time beyond official hour.
- Consistent inclusion of quality Books and Journals from time to time.
- Reseal able number of titles with volumes.
- Subscription to high-end e-journal repository like IEEEIEL or Springer link to aid researchers.
- Opening up e-library segment and gradually converting it to digital library
- Lecture videos and web lecture repositories.
- Availability of the text books in the Book bank section.
- Grow reading culture of text and reference books.

Recommendation for infrastructure:
- Procurement of equipments in traditional engineering in a regular interval. Keeping focus on modernization and removal of obsolescence
- Computing departments will have enough resources in terms of High end equipments like Server, internet Servers, PCs ETC.. Timely upgradation of the same.
- Regular incorporation of instrument tool kit in electronics and allied fields.
- Incorporation of equipments/instruments through research projects RPS etc.
- For quality and standard of utilization with a slogan "Lab to land", implemented successfully through are search project in which Solar lights are successfully installed.

6.3.6 Human Resource Management

Recommendations are as follows:
- Identify people intended towards teaching, training and learning and to setting the benchmark for best performance from them.
- Encourage strong Faculty and Staff development Plan so as to train them strongly in domain knowledge and pedagogical aspects.
- Identifying people have strong research potential and scholarly attitude and encourage them to attract funding agencies and apply research projects
- Encourage hosting International and National Conference so as to enhance reputation of the institution.
- Identify people with leadership skills
- Groom them with administrative responsibilities.
- Find people with strong co-curricular/extra-curricular skills and encourage them to organize sports/social cultural events etc.

6.3.7 Faculty and Staff recruitment

By following the recruitment policy of the JIS Group to which the Institution belongs. There are steps like paper advertisements, conducting interviews by the eminent professors from lead universities/institutions etc.

6.3.8 Industry Interaction /Collaboration

The Industry Institute Partnership cell (IIPC) is instrumental in keeping strong bonding with Industry. Few illustrations are Microsoft faculty Connection, IBM TGMC, Infosys Campus Connect, collaboration with Texas Instruments etc.
Recommendations are–
- Direct involvement of industry personnel in framing out autonomous curriculum syllabus to make role-ready, industry ready engineers.
- Industry personnel in Board of Studies of the departments
- Industry representative in Academic Council
- Industrial training/visits for the students with faculty coordinators
- Industry sponsored projects/electives
- Industry sponsored research
- Skill orientation programme of the students directly by the Industry experts.
- Industry members in maintaining quality/standard i.e. In IQAC
  Etc.

Students successfully achiever prize in Industrial events like SOA(TCS), Transition(CTS), Aspiration(Infy)etc..

6.3.9 Admission of Students

Being a Engineering College in the State and autonomous institution affiliated to State University, it strictly adhere to admission policies of WBJEE Board through JEE(main), WBJEE, AMPAI and other statutory provisions.

6.4 Welfare schemes for

Teaching	Fast track increment/ promotion
Non teaching	Same
Students	Recognition / Prize for the achievements

6.5 Total corpus fund generated

Rs. 21.0502227

6.6 Whether annual financial audit has been done   Yes [√]   No [ ]

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

Audit Type	External		Internal	
	Yes / No	Agency	Yes / No	Authority
Academic	Yes	Advisor, NIT Agartala		
Administrative	Yes	Performance & statutory audit		

6.8 Does the University/ Autonomous College declares results within 30days?

For UG Programmes   Yes   √   No

For PG Programmes   Yes   √   No

6.9 What efforts are made by the University/Autonomous College for Examination Reforms?

Setting half of the papers externally from lead university/institution, Maintaining high standard in evaluations, conducting online class tests, introducing continuous performance evaluations and declaration of semester result within one month

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

Providing valuable suggestion/advise through University representative in statutory committees like Board, Academic Council etc.

6.11 Activities and support from the Alumni Association

- Alumni Association meeting held
- Alumni meet conducted
- Alumni' Day out programme" organized recently.
- Alumni archive and Alumni chapter in top major cities proposed.

6.12 Activities and support from the Parent – Teacher Association

- Parent are the important stakeholders
- IQAC plan to incorporate more views from the parent in terms of their wards education.
- Appraisal/indirect assessment from the Guardian are proposed by IQAC since they are the financer and they make investment in child education

6.13 Development programmes for support staff

Staff development programme frequency enhanced under autonomous framework
- Sr. Admin staffs are sent in different state for skill up-gradation
- Technical staffs are provided with SDT
- Administrative and technical staffs were provided BCL training

6.14 Initiatives taken by the institution to make the campus eco-friendly

JISCE has the responsibility of conducting Green-Audit on yearly basis and take effective measures to protect and preserve green atmosphere in the college campus.

The recommendations from IQAC cell are:

1. To make the college campus greenery by planting more sapling.
2. Make the campus as plastic free zone
3. To take initiative to keep the campus clean.
4. To give botanical name of eachplant/tree
5. To plant flower trees

Since inception importance is given for development of eco – friendly atmosphere in the campus by the management and allocation of certain amount is present in annual budget. Hence, a separate green audit does not arise until now. However, the following explanation highlights the commitment of the institution towards eco-friendly campus.

☐ College is covered with over greenery and bigtrees.
☐ Nearly 6 acres of lawn and play ground equipped with water sprinkling system.
☐ Over 2000 plants in pots spreading overall departments.
☐ Bio-manure is prepared in the campus using bio–waste provided out of trees and plants.
☐ Organic waste of the campus is converted in to fertilizer com post with in the campus.
☐ College maintaining a nursery with samplings.
☐ Establishment of Eco-park is planned in near future.
-

Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

> The innovations created mainly to uplift standard in quality of education:
> - Mandatory Curriculum content analysis, lesson and session Plan for each courses by the teachers
> - Practice outcome based teaching methodologies
> - Stress on active, interactive and self learning
> - Model based and real-world problem based teaching.
>
> Four patent applications were filed. Research innovation include
> - More interdisciplinary works
> - Attract more PG student to research by encouraging them to attend Conferences

7.2 Provide the Action Taken Report (ATR)based on the plan of action decided upon at the beginning of the year

Based on the plan submitted in the 2014-15 (mentioned in the Section 2.15, following are the Action taken report.

➢ Execution of Solid waste management effective disposal system of waste from college& hostels.	Effective disposal of Solid waste management including e-Waste in place
➢ To renovate the Electrical and water supply facilities of the college with iron removal plant and installing energy saving CFL lights.	The Electrical supply facility with proper backup system in place. Cold and pure water supply facility in place through installation of High End Water Purifier Machine.
➢ Improve infrastructure of all the departments.	The modernization and removal of obsolete equipments is a continuous process and renovated in the ongoing year
➢ Re arranges the laboratory support systems and makes it more users friendly.	The Laboratory support system has been renovated with Technical persons and PG scholars taking active participation during lab session.
➢ Encourage teachers to take up Research Projects.	The 2nd set of UGC minor projects applied. The 1st set of UGC minor project implementation status reviewed. The status of RPS project and projects funded by other agencies also reviewed. The Faculty members are encouraged to submit projects in Technical symposium.
➢ To improve the class room facilities and creation of at least one smart class room per department.	The Lecture rooms are gradually being transformed to Smart Classrooms. Now each department have provision for audio-visual presentation in their Smart rooms / labs. However, transformation process is ongoing.
➢ To organize seminar already sanctioned by UGC, TEQIP &AICTE.	A29 around workshops/seminars were organized during TEQIP 1st Phase and more 15 around were organized after getting additional grant in TEQIP. There are JIS Group funded event as well.
➢ To organize conduct an International Conference on Electrical Engineering.	The International Conference in Non Conventional Energy is conducted in 2014. Moreover, an International Conference on Advancement in Medical Electronics also conducted at the beginning of 2015.

➢ Make internet knowledge compulsory to prepare the assignments and projects.	The enhancement of internet facility has been made and growing tendency of the students using internet-based learning through the systems laboratories and even using their smart phones are increasing
➢ Provide an orientation programme to students to introduce the many programmes of the college.	The Newly entrant students Orientation program has been conducted in August 1st Week and addressed by versatile Speakers from RKM to Skill Development professionals.
➢ Avail the value education hours to introduce the many programmes.	The Value education and Value-added programs are annexed with regular curriculum-based programs.
➢ Conduct training programmes in Personality development and soft skills more intensively.	Number of Training programs are integrated with regular curriculum programs including ICT based programs (QEEE, BMOOC, Spoken tutorial)
➢ Make the documentation of IQAC more effective with the help of software.	The IQAC documentation quality improvement is under process and Lead Universities are consulted for the same.
➢ To introduce software support for handling examination data.	The Examination system is reviewed and managing examination data with process of publication of result has been made online through Software Development wing of JIS Group.
➢ Add on more number of courses under NCVT.	The programs under NCVT and other short-term courses are annexed specially in the department having low admission.
➢ Continue the value addition programmes as part of the curriculum: Each department may start a diploma or certificate course as part of improving the curriculum content and issue certificates.	Curriculum based Value addition programare implemented. E.g. QEEE Live classes and the Course pack addressed by the National Teachers through Live programs. NPTEL courses are also being encouraged and over 1600 number of students enrolled for the NPTEL courses.
➢ Interdisciplinary programmes will be organized by way of invited talks, seminars etc. with the assistance of subject associations and various clubs functioning in the college.	The Interdisciplinary programs are organized. The International Conferences and number of workshops organized in this phase are interdisciplinary. A PG program on NST is jointly organized by two departments.
➢ To organize a workshop for +2 students in the state to inspire them in technological subjects.	Programsforthe10+2studentsareorganizedinwhichtheycan display their own innovations and though. In JIS Tech Symposium there is a separate School pavilion in which school projects are awarded. Also school networking is done in the National Seminar and as part of CEE-AMPAI and WBJEE events.
➢ Human Resource Development Training for students (HRD Training)	The students are trained in multiple skills including communication and personality development, Aptitude and Technical extended upto HR by professionals from Industry
➢ Staff Training programmes will be organized periodically to train the staff in ICT based teaching	Staff Training programs are organized in regular interval. Admin staffs attended skill development in office work program through TEQIP grant
➢ Departmental meetings be arranged every month to review the progress of the academic plan for the current year	All Statutory Committee meetings (AC, BoS, DC) occurred in frequent intervals.
➢ All departments will introduce at least one worthy practice to be emulated by other departments and colleges, with a definite goal and evidence of success.	The Good practices from the Department are shared and provisions are made to make them a Institutional practice through Academic Council(E..g the Student attendance taken by IT Dept. / Math dept.)
➢ To develop Digital Library in a full-fledged facility.	The e-Library is already in place in which 30 PC setup is installed to facilitate the readers with IEEE IEL, INDEST Journals and Open Access journals.
➢ To give a training course in website up-dations to one faculty member from each department. So that the department links in the college website may be kept Current and operational.	The overall e-Governance workshop under Outcome Based Education was conducted. However, more consolidated programs are under process.
➢ To covert the campus into an echo	The initiatives are taken to make a Green and Echo friendly

friendly campus.	campus through various measures (E.g. hard prints are discouraged unless it is too necessary)

7.3 Give two Best Practices of the institution*(please see the format in the NAAC Self-study Manuals)*

> Two best practices in the Institution under the autonomous framework are:
>
> - Mentorship Programme
> - Continuous performance Evaluation

*Provide the details in annexure (annexure need to be numbered as i, ii, iii)

7.4 Contribution to environmental awareness /protection

> Following are the contribution:
> ∗ Energy conservation
> ∗ Use of renewable energy
> ∗ Water harvesting
> ∗ Check dam construction
> ∗ Efforts for Carbon neutrality
> ∗ Plantation
> ∗ Hazardous waste management
> ∗ e-waste management
> ∗ any other

7.5 Whether environmental audit was conducted?   Yes √   No ☐

7.6 Any other relevant information the institution wishes to add.(for example SWOT Analysis)

> SWOT Analysis is exclusively conducted and taken into consideration during in each annual Plan. The process started during first accreditation in NAAC and also during joining TEQIP Phase II

8. Plans of institution for next year

Teaching Learning Process
➢   To make Curriculum content analysis mandatory for all faculties in all disciplines
➢   To encourage Learning centric environment and practice active leaning
➢   To put emphasis on Model based learning/problem based learning with specific outcome
➢   Making Curriculum content analysis mandatory for all faculties in all disciplines
➢   To put cross-disciplinary academic audit between similar departments
➢   To enhance stake holders feedback from Students, Guardian, Faculty, Alumni, Employer, Board.

Board.

Infrastructure development and Civil works:

➢ To complete the construction of a separate Civil Engineering wing and start conduction of programme in this new venue

➢ To setup new Annex building beside the CMS building in a row for the Department of Electronics and related courses viz. Instrumentation and Biomedical Engineering in multi-storied pattern

➢ To expand Computer Science and Engineering in the Institutional main building

Faculty Development Programme

➢ To conduct advanced module of pedagogical training for all faculty members of NITTTR
➢ To encourage enrollment of more M.Tech. Faculty member for Ph.D. degree
➢ Pacify faculty training in subject domain (Core, electronics, computing)
➢ Increase number of training programme for technical and administrative staffs

Research and Development

➢ To continue trend of hosting International conference like previous consecutive two years
➢ To escalate seed grant for faculty research
➢ To escalate minor amount funding in Students innovative project
➢ To establish link with other Industries under the Group for seed grant against transfer of knowledge so as to attract the other funding agencies.
➢ Status verification of research supervision by the empanelled faculty members
➢ To apply more major research project with high value and specific objective.
➢ To establish link with National Knowledge Network(NKN)
➢ To open up a Knowledge Incubation Centre
➢ To apply for transformation of some of the high end laboratory to Research Centre
➢ Like AICTE MODROB/RPS apply in various project schemes under UGC
➢ To enhance more patenting of technologies

Industry Institute partnership

➢ To initiate industry sponsored R&D by collaborating with Group Industry / Local Industry and thereby attracting the funding agencies
➢ ToreflectmoretheviewsoftheIndustryrepresentativeoftheBOSofvariousdepartments
➢ To increase number of Guest lecture by the Industry people
➢ To invite alumni's in departmental programme to share their experience with students
➢ To initiate collaborative academic programmes with industry
➢ To enhance joint activities with industry

Others

➢ To apply for short –term courses
➢ To escalate Design Lab so as to make students role-ready
➢ To encourage National and international live classes, webinars and other ICTbased learning like ICTE, QEEE, NMEICT programmes hosted by MHRD-IIT.

Name _____ *Dr. Somsubhra Gupta* _____   Name _____ *Dr. Malay R Dave* _____

_____   _____

Signature of the Coordinator, IQAC   *Signature of the Chairperson, IQAC*

_____***_____

Abbreviations:

CAS	-	Career Advanced Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission

****