



## Yearly Status Report - 2018-2019

### Part A

#### Data of the Institution

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

<b>2. Institutional Status</b>					
Autonomous Status (Provide date of Conformant of Autonomous Status)		31-Oct-2011			
Type of Institution		Co-education			
Location		Urban			
Financial Status		private			
Name of the IQAC co-ordinator/Director		Dr. Papun Biswas			
Phone no/Alternate Phone no.		09432011490			
Mobile no.		9433766654			
Registered Email		iqac@jiscollege.ac.in			
Alternate Email		info@jiscollege.ac.in			
<b>3. Website Address</b>					
Web-link of the AQAR: (Previous Academic Year)		<a href="https://jiscollege.ac.in/pdf/jisceagar17-18.pdf">https://jiscollege.ac.in/pdf/jisceagar17-18.pdf</a>			
<b>4. Whether Academic Calendar prepared during the year</b>		Yes			
if yes,whether it is uploaded in the institutional website: Weblink :		<a href="https://jiscollege.ac.in/pdf/aceven2019.pdf">https://jiscollege.ac.in/pdf/aceven2019.pdf</a>			
<b>5. Accrediation Details</b>					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B	2.72	2009	15-Jun-2009	14-Jun-2014
2	A	3.02	2015	03-Mar-2015	02-Mar-2020
<b>6. Date of Establishment of IQAC</b>			26-Jun-2010		
<b>7. Internal Quality Assurance System</b>					
Quality initiatives by IQAC during the year for promoting quality culture					

Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Innovative Idea Competition	20-Jan-2019 5	510
International Conference on Digital pedagogy	01-Apr-2019 2	306
workshop on Microsoft in Digital Education	03-Apr-2019 1	180
IQAC Meeting	14-May-2019 1	17
Academic Audit	03-Jun-2019 3	166
Feedback from stakeholders	03-Sep-2018 3	3612
Parent Teacher Meet	27-Apr-2019 1	251
JISTech	08-Mar-2019 2	2388
Workshop on OBE	20-Nov-2018 1	161
Workshop on OBE	09-Mar-2019 1	165
<a href="#">View File</a>		

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

Institution/Department/ Faculty	Scheme	Funding Agency	Year of award with duration	Amount
JIS College of Engineering PI: Dr. Sabyasachi Sen, Dean R&D, Head-Physics Co-PI: Dr. Papun Biswas, Head-EE	DST FIST	DST, Govt. Of India	2018 1825	6000000
Jis College of Engineering - First flip institute in India	Digital Pedagogy	World Bank Group	2018 365	0
Jis College of Engineering - IIC two star rank	IIC	MIC	2019 180	0
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**9. Whether composition of IQAC as per latest NAAC guidelines:**

Yes

Upload latest notification of formation of IQAC	<a href="#">View File</a>												
<b>10. Number of IQAC meetings held during the year :</b>	9												
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes												
Upload the minutes of meeting and action taken report	<a href="#">View File</a>												
<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	Yes												
If yes, mention the amount	209000												
Year	2019												
<b>12. Significant contributions made by IQAC during the current year(maximum five bullets)</b>													
<p>? Implementation Monitoring of Digital Pedagogy for UG programs ? Monitoring on implementation of Learning Management System ? Verification of Regulation Book under Autonomous structure for curriculum reforms (following AICTE guideline) ? Academic Audit following NBA guidelines as per Tier I institutions ? Comparative analysis for growth with respect to national and international standards Academic audit as per NACC Autonomus Institute guidelines</p>													
<a href="#">View File</a>													
<b>13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year</b>													
<table border="1"> <thead> <tr> <th>Plan of Action</th> <th>Achivements/Outcomes</th> </tr> </thead> <tbody> <tr> <td>Implementation of Modern Digital Pedagogy for all the UG programmms</td> <td>Achieved in teaching learning methodology</td> </tr> <tr> <td>Establishment of Second Digital Studio</td> <td>Established</td> </tr> <tr> <td>Academic Audit</td> <td>Identified the "as is" situation and suggested the "to be" parameters for further action to the concerned Departments where the Academic Audit was being carried out.</td> </tr> <tr> <td>Organizing International Technical Symposium &amp; International Conference</td> <td>Nurturing the innovative mind to fulfill the current industrial demand</td> </tr> <tr> <td colspan="2" style="text-align: center;"><a href="#">View File</a></td> </tr> </tbody> </table>		Plan of Action	Achivements/Outcomes	Implementation of Modern Digital Pedagogy for all the UG programmms	Achieved in teaching learning methodology	Establishment of Second Digital Studio	Established	Academic Audit	Identified the "as is" situation and suggested the "to be" parameters for further action to the concerned Departments where the Academic Audit was being carried out.	Organizing International Technical Symposium & International Conference	Nurturing the innovative mind to fulfill the current industrial demand	<a href="#">View File</a>	
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<a href="#">View File</a>													
<b>14. Whether AQAR was placed before statutory body ?</b>	Yes												

Name of Statutory Body	Meeting Date
Board of Governance	13-Sep-2019
<b>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?</b>	Yes
Date of Visit	09-Aug-2019
<b>16. Whether institutional data submitted to AISHE:</b>	Yes
Year of Submission	2019
Date of Submission	26-Feb-2019
<b>17. Does the Institution have Management Information System ?</b>	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>JIS College of Engineering having its own Management Information System (<a href="http://jis.creatrixcampus.com/user/login">http://jis.creatrixcampus.com/user/login</a>) through which stake holders can execute the routine activities. This system operates on cloud based platform that automates the administration, tracking, reporting of training events. It provides the platform through which any teacher and student may connect each other as and when required which in turns best quality of teaching learning. The executes system having the following facilities as ? Centralize and automate administration ? Use selfservice and selfguided services ? Assemble and deliver learning content rapidly ? Consolidate training initiatives on a salable webbased platform ? Support portability and standards ? Personalize content and enable knowledge reuse ? Integration with HR and Finance Section ? Administration tools ? Content Access ? Content development ? Content integration ? Skills management ? Assessment capabilities ? Adherence to standards ? Configuration ? 24 by 7 Access ? Security Students can know their own attendance in each theory and practical basis, they can receive the study material from the concerned faculty member, and mentees can communicate with his/her mentors and</p>

inform the requirements and required information. Parents can also know their children performance and daily academic activities through the 'CREATRIX portal or 'CREATRIX APP' Faculty concern can identify their personal routine and as well class routine also. They can fix up their lesson plan, session plan and upload the study material for the required classes. Each individual can identify the progress of the syllabus completion of the particular topics. They may close look on the students attendance and as well as students performance of the corresponding subjects and guide accordingly. Administrative people can execute the daily routine work through their module, such as different types of report generation, report comparisons etc. The following activity heads are maintained through MIS: 1. Accounts and financial management through ERP 2. Online Admission Process through ERP 3. Store and material requisition through ERP 4. HR Module, Staff attendance biometric and leave approval 5. Library and information science 6. Online Attendance Monitoring System 7. Online Feedback Collection System 8. Online Learning Management System

## Part B

### CRITERION I – CURRICULAR ASPECTS

#### 1.1 – Curriculum Design and Development

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

Name of Programme	Programme Code	Programme Specialization	Date of Revision
Mtech	EDPS	M.Tech in Electrical Devices And Power Systems	06/07/2018
Mtech	PGCS	Post Graduate In Computer Science	06/07/2018
Mtech	MCNT	M.Tech in Mobile Communication And Networking Technology	06/07/2018
Mtech	MME	M.Tech in Mechanical Engineering	06/07/2018
BTech	CSE	Computer Science	02/07/2018
BTech	IT	Information Technology	02/07/2018

BTech	ECE	Electronics and Communication Engineering	02/07/2018
BTech	EE	Electrical Engineering	02/07/2018
BTech	ME	Mechanical Engineering	02/07/2018
BTech	CE	Civil Engineering	02/07/2018
BTech	BME	Bio Medical Engineering	02/07/2018
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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BTech	DST Sponsored Technology Based Entrepreneurship Development Program (TEDP)	15/03/2019	-	15/03/2019
BTech	Enterprise Development Institute, EDI, Kolkata	08/03/2019	-	08/03/2019
BTech	The National Science & Technology Entrepreneurship Development Board, DST-Government of India.	15/01/2019	-	15/01/2019
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## 1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
BTech	Computer Science & Engineering	09/07/2018
BTech	Information Technology	09/07/2018
BTech	Electronics & Communication Engineering	09/07/2018
BTech	Electrical Engineering	09/07/2018
BTech	Mechanical Engineering	09/07/2018
BTech	Civil Engineering	09/07/2018
BTech	Biomedical Engineering	09/07/2018
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	Computer Science Engineering	09/07/2018
BTech	Information Technology	09/07/2018
BTech	Electronics & Communication Engineering	09/07/2018
BTech	Electrical Engineering	09/07/2018
BTech	Mechanical Engineering	09/07/2018
BTech	Civil Engineering	09/07/2018
BTech	Biomedical Engineering	09/07/2018

### 1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
NCC	08/08/2018	56
NSS	08/08/2018	450
Students Life Center	08/08/2018	1400
Speakers Corner	08/08/2018	240
Developing Soft Skills and Personality	04/06/2018	340
Introduction to Programming in C	04/06/2018	263
Programming, Data Structures and Algorithms using Python	04/06/2018	194
Data Base Management Systems	04/06/2018	168
The Joy of Computing using Python	04/06/2018	126
Introduction to Internet of Things	04/06/2018	89
<a href="#">View File</a>		

1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	Summer Internship	510
BTech	Internshala	75
BTech	Industrial Visit	520
BTech	TechFest2019	650
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### 1.4 – Feedback System



#### 1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

##### Feedback Obtained

Online feedback has been collected through the Institutional website from various stakeholders and followed by summarized the feedback for assessment based on the Institutional Benchmark and submitted to IQAC. Concerned Departments initiate the process for corrective measures and further improvement based on the suggestion of IQAC.

### CRITERION II – TEACHING- LEARNING AND EVALUATION

#### 2.1 – Student Enrolment and Profile

##### 2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BTech	CSE	120	135	125
BTech	ECE	120	120	86
BTech	CE	120	120	71
BTech	ME	120	120	79
BTech	IT	60	69	64
BTech	BME	60	60	35
BTech	EE	120	120	111
Mtech	CSE	18	15	15
Mtech	EDPS	18	18	16
Mtech	ME	18	10	11
Mtech	MCNT	18	6	3
MBA	MBA	60	40	34

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#### 2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	2858	105	203	12	191

#### 2.3 – Teaching - Learning Process

##### 2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-

learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
203	203	6	24	30	28

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

Yes mentoring system is well in place at the Institute. Each member of the departments is attached to Mentorship programme. The faculty members are entrusted with the task of mentoring 10 to 15 students. They are responsible for academic and personal mentoring. This is to strengthen the bonds of appreciation and affection that exists between teachers and students. Interaction with students and counseling them help in their personal development. Tutors may keep the progress of the students in the Teacher's diary. This method ensures one to one assistance provided to the students. Regular workshop on mentorship is organized at the beginning of each semester. Once the term starts for the new students immediately the students are assigned to their mentors. The guardians were also informed the name of the mentor of their wards.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2858	203	14

## 2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
203	203	0	24	15

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Papun Biswas	Associate Professor	AICTE UKEIRI Leadership Development Program
2018	DEBASREE MITRA	Assistant Professor	Most innovative College East Zone on the occasion of Internship Day
2018	DEBASREE MITRA	Assistant Professor	Local Chapter rating A
2018	DEBASREE MITRA	Assistant Professor	Local Chapter rating A
2019	Dharmpal Singh	Associate Professor	UKIERI LDP PROGRAM
2019	Bikramjit Sarkar	Associate Professor	UKIERI LDP PROGRAM
2019	Rupak Bhattacharjee	Assistant Professor	Topper in Introductory mathematical Methods for Biologists
2018	Shyam Sundar Santra	Assistant Professor	Short term research

			internship for inspire fellows under Newton Bhabha programme INDIA DST and UK British Council
2019	Sabyasachi Sen	Associate Professor	MHRD IIC FOUR STAR Ranking
2018	Trina Dutta	Assistant Professor	TOPPER of Five percent in Outcome Based Pedagogic principles for effective teaching
2019	Kaustav Das	Assistant Professor	Best Teacher Innovation
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## 2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BTech	ECE	8th	05/06/2019	02/07/2019
BTech	EE	2nd	11/06/2019	08/08/2019
BTech	EE	4th	10/06/2019	08/08/2019
BTech	EE	6th	13/06/2019	08/08/2019
BTech	EE	8th	05/06/2019	02/07/2019
BTech	CIVIL	2nd	11/06/2019	08/08/2019
BTech	CIVIL	4th	10/06/2019	08/08/2019
BTech	CIVIL	6th	13/06/2019	08/08/2019
BTech	CIVIL	8th	07/06/2019	02/07/2019
BTech	ME	2nd	11/06/2019	08/08/2019
BTech	ME	4th	10/06/2019	08/08/2019
BTech	ME	6th	11/06/2019	08/08/2019
BTech	ME	8th	07/06/2019	02/07/2019
BTech	BME	2nd	11/06/2019	08/08/2019
BTech	BME	4th	10/06/2019	08/08/2019
BTech	BME	6th	13/06/2019	08/08/2019
BTech	BME	8th	07/06/2019	02/07/2019
BTech	CSE	2nd	11/06/2019	08/08/2019
BTech	CSE	4th	10/06/2019	08/08/2019
BTech	CSE	6th	13/06/2019	08/08/2019
BTech	CSE	8th	05/06/2019	02/07/2019
BTech	IT	2th	11/06/2019	08/08/2019

BTech	IT	4th	10/06/2019	08/08/2019
BTech	IT	6th	11/06/2019	08/08/2019
BTech	IT	8th	07/06/2019	02/07/2019
BTech	ECE	2nd	11/06/2019	08/08/2019
BTech	ECE	4th	10/06/2019	08/08/2019
BTech	ECE	6th	11/06/2019	08/08/2019
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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
0	0	0

## 2.6 – Student Performance and Learning Outcomes

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

[CSE http://jiscollege.ac.in/cse/](http://jiscollege.ac.in/cse/)
[IT http://jiscollege.ac.in/it/](http://jiscollege.ac.in/it/)
[ECE http://jiscollege.ac.in/ece/](http://jiscollege.ac.in/ece/)
[EE http://jiscollege.ac.in/ee/](http://jiscollege.ac.in/ee/)
[CIVIL http://jiscollege.ac.in/civil/](http://jiscollege.ac.in/civil/)
[ME http://jiscollege.ac.in/me/](http://jiscollege.ac.in/me/)
[BME http://jiscollege.ac.in/bme/](http://jiscollege.ac.in/bme/)

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
CSE	BTech	CSE	124	121	97.58
IT	BTech	IT	30	30	100
ECE	BTech	ECE	96	92	95.83
EE	BTech	EE	87	84	96.55
CIVIL	BTech	CIVIL	144	136	94.44
ME	BTech	ME	105	100	95.23
BME	BTech	BME	16	16	100
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## 2.7 – Student Satisfaction Survey

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

[Student Satisfaction Survey \(SSS\) on overall institutional performance \(Institution may design the questionnaire\) \(results and details be provided as weblink\) Performed through Mentorship Activity. http://172.17.3.100/adminstudentfeedback/newoverallwisemis.asp \(Data maintained in localhost server\)](http://172.17.3.100/adminstudentfeedback/newoverallwisemis.asp)

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Promotion of Research and Facilities

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

Yes

Name of the teacher getting seed money

Dean RD Team

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

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	Rupak Bhattacharjee	NPTELTopper	05/06/2019	NPTEL
International	Dr.Subhamoy Singha Roy	(FSFRC) Fellow of Science Frwntier Research Council	20/03/2019	Global Journals (USA)

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## 3.2 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	6	DSTFIST	65	50
Major Projects	4	AICTERPS	17.64	17.38
Minor Projects	3	UGC (Minor)	1.9	0
Interdisciplinary Projects	1	AICTEAQISSTTP	3.18	3.18
Interdisciplinary Projects	1	AICTEAQISSCST	5.18	5.18
Interdisciplinary Projects	1	AICTEAQISFDP	5	5
Interdisciplinary Projects	1	AICTEAQISPRERON A	10.66	5.33
Interdisciplinary Projects	1	AICTEAQISGOC	5	5
Interdisciplinary Projects	1	AICTEAQISInt.Travel	1.8	1.8
Industry sponsored Projects	1	SH Manufacturing Trading Pvt LtdProject Piezo tyre	2.75	2.75
Industry	1	Eastern Rubber	1.35	1.35

sponsored Projects		Industries ProjectE3 Cycle		
Projects sponsored by the University	1	JISTech2K19	2.4	2.4
Students Research Projects (Other than compulsory by the University)	1	JISTech2K19	1.1	1.1
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

3449900
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### 3.3 – Innovation Ecosystem

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

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

JISTech 2k19 Signature Event of JISCE		
Design Competition for Proof of Concept Development	Institutional Innovation Council - JISCE	01/04/2019
Episode 04 of India First Leadership Talk with with Prof. Anil D. Sahasrabudhe, Chairman, AICTE	Institutional Innovation Council - JISCE	10/04/2019
Idea 2 Innovation (Awareness Seminar on Innovation, IPR Startup and Innovation Contest) 3 phase programm	Joint collaboration with EDCJISCE, CII Centre for Innovation JISCE, Institutional Innovation Council - JISCE	05/08/2019
One Day Seminar On Startup Business	EE Dept.	30/08/2019
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### 3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
RFID Protected DTMF Based Robotic Tractor for Smart Agriculture	Prithwijit Das	CSI Convention TIG	31/03/2019	First Position in Innovative Paper presentation at CSI Convention
<a href="#">View File</a>				

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

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
JIS Innovation and Incubation Center (JISIIC)	JInnovationP vt. Ltd	JIS College of Engineering	JInnovationP vt. Ltd	Prototype Design	30/07/2018
<a href="#">View File</a>					

## 3.4 – Research Publications and Awards

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

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

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	CSE	15	1.02
International	IT	15	1.3

International	ECE	18	1.2
International	EE	8	1.03
International	ME	3	0.89
International	CE	1	0.6
International	BME	3	1.6
International	PHYS	7	4.03
International	CHEM	1	1.5
International	MATH	2	1.2
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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
MATH	1
CSE	13
IT	1
ECE	1
EE	1
ME	1
BME	2
CHEM	6
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
AblePortability_Mobility	Published	2019310282	02/08/2019
Fold On the GO	Published	2019310284	02/08/2019
A System For Data Acquisition And Control With ElectroOculography Signals	Published	2018310184	15/06/2018
A System for Transferring Audio as Text Message Applicants	Published	2018310188	15/06/2018
An Integrated SYSTEM To Predict The Traffic Congestion	Published	2018310170	08/06/2018
Automatic Cloth Changeable Baby Care Smart Intelligent Cradle with Real Time Surveillance	Filed	2018310448	28/11/2018



Self powered smart Intelligent Washable Green Pay and Use Toilet	Filed	2018310448	28/11/2018
Solar Powered Cooling Helmet for Jawan Traffic Police	Filed	2019310128	30/03/2019
Digital Voting Machin (DVM) with Biometric Verification System with Instant Counting Facility	Filed	2019310059	15/02/2019
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3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Tuning and transfer functional modelling of a prosthetic arm	Neogi, B., Barui, S., Das, S., Paul, S., Ghosh, J., Ghosh, S.	Journal of Computational Methods in Sciences and Engineering	2019	1	JIS College of Engineering	3
Quantum Confined States of Electrons in Semiconductor Quantum Ring Under Crossed Electromagnetic Field	Deyasi, A., Bhatta charyya, S.	Lecture Notes in Electrical Engineering	2019	1	JIS College of Engineering	2
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3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Medical video processing: Concept and applications	Goswami, S., Dey, U., Roy, P., Ashour, A.S., Dey, N.	Computer Vision: Concepts, Methodologies, Tools, and Applications	2018	1	10	JIS College of Engineering

Effect of heat treatment on microstructure behavior and hardness of en 8 steel	Biswas, P., Kundu, A., Mondal, D., Kumar Bardhan, P.	IOP Conference Series: Materials Science and Engineering	2018	3	12	JIS College of Engineering
Advanced Diagnosis of Deadly Diseases Using Regression and Neural Network	Das, S., Sanyal, M.K., Datta, D.	Communications in Computer and Information Science	2018	1	13	JIS College of Engineering
AISLDr: Artificial intelligent selflearning doctor	Das, S., Sanyal, M., Datta, D., Biswas, A.	Advances in Intelligent Systems and Computing	2018	1	14	JIS College of Engineering
ActivityBased Learning (ABL) for engaging engineering students	Biswas, A., Das, S., Ganguly, S.	Lecture Notes in Networks and Systems	2018	1	15	JIS College of Engineering
Double ended bottomup approach of data warehouse architecture employing country ISO code engendered cryptographic algorithm	Chowdhury, R., Bhatta charya, I., De, N., Saha, S.	Lecture Notes in Networks and Systems	2018	2	16	JIS College of Engineering
Aspects of lowpower highspeed CMOS VLSI design: A review	Ghosh, P., Saha, T., Kumari, B.	Lecture Notes in Networks and Systems	2018	2	13	JIS College of Engineering
Realization of outco mebased	Chowdhury, R., Saha, S.,	Lecture Notes in Networks	2018	2	12	JIS College of Engineering

education through teaching learning methodology in engineering institution	Sahana, S., Sanki, D.	and Systems				g
CBSTD: A cloud based symbol table driven DNA compression algorithm	Majumder, A.B., Gupta, S.	Lecture Notes in Networks and Systems	2018	1	12	JIS College of Engineering
An energy efficient congestion avoidance priority based routing algorithm for body area network	Majumder, A.B., Gupta, S.	Lecture Notes in Networks and Systems	2018	0	8	JIS College of Engineering
Soft computing approach to electrical transmission network congestion management	Mukhopadhyay, D.S., Chanda, R., Chakraborti, D., Biswas, P.	Lecture Notes in Networks and Systems	2018	3	10	JIS College of Engineering
Remote healthcare development using vehicular Ad Hoc and wireless sensor networks	DasGupta, S., Saha, S., Chatterjee, K.	Advances in Intelligent Systems and Computing	2018	2	11	JIS College of Engineering
Foreword	Gupta, S.	Lecture Notes in Networks and Systems	2018	1	13	JIS College of Engineering
Effects of sidewall spacer layers on thermal	Bhattacharjee, S., Biswas, A.	Microsystem Technologies	2018	2	12	JIS College of Engineering

and low frequency noise performance of SOI UTB MOSFETs						
Air quality assessment using weighted interval type2 fuzzy inference system	Debnath, J., Majumder, D., Biswas, A.	Ecological Informatics	2018	1	9	JIS College of Engineering
Quantum perspective on the localized strand separation and cyclization of DNA double helix	Singha Roy, S., Bandyopadhyay, P.	Physics Letters, Section A: General, Atomic and Solid State Physics	2018	1	12	JIS College of Engineering
Vanishing Thermal Conductance of Carbon Nanotube upon Encapsulation by Zigzag Sulfur Chain	Koley, S., Sen, S., Chakrabarti, S.	Journal of Physical Chemistry Letters	2018	9	10	JIS College of Engineering
Selective chloroform sensor using thiol functionalized reduced graphene oxide at room temperature	Midya, A., Mukherjee, S., Roy, S., Santra, S., Manna, N., Ray, S.K.	Materials Research Express	2018	2	12	JIS College of Engineering
Edited Book I3SET2016	Bhattacharyya, S., Sen, S., Dutta, M., Biswas, P., Chattopadhyay, H.	Lecture Notes in Networks and Systems	2018	3	19	JIS College of Engineering

Tuning and transfer functional modelling of a prosthetic arm	Neogi, B., Barui, S., Das, S., Paul, S., Ghosh, J., Ghosh, S.	Journal of Computational Methods in Sciences and Engineering	2019	3	3	JIS College of Engineering
Quantum Confined States of Electrons in Semiconductor Quantum Ring Under Crossed Electromagnetic Field	Deyasi, A., Bhatta charyya, S.	Lecture Notes in Electrical Engineering	2019	2	2	JIS College of Engineering
Disaster management system using vehicular Ad Hoc networks	Das Gupta, S., Choudhury, S., Chaki, R.	Advances in Intelligent Systems and Computing	2019	0	3	JIS College of Engineering
Synthesis of highspeed multivalued ALU for $(2p \hat{+} q)$ Radix	Banerjee, A., Bhatta charyya, S., Deyasi, A.	Lecture Notes in Electrical Engineering	2019	2	3	JIS College of Engineering
An improved bioinspired BAT algorithm for optimization	Purkait, G., Singh, D., Mishra, M., Jena, A.R., Banerjee, A.	Advances in Intelligent Systems and Computing	2019	1	5	JIS College of Engineering
Fast squaring technique for radix vicinity numbers for radix $2n \hat{+} M$ with reduced computational complexity	Banerjee, A., Deyasi, A., Bhatta charyya, S., Sarkar, A.	Lecture Notes in Electrical Engineering	2019	2	6	JIS College of Engineering
Intelligent	Das, S., Sanyal,	Proceedings 2019	2019	2	3	JIS College of

Approaches for the Diagnosis of Low Back Pain	M.K., Datta, D.	Amity International Conference on Artificial Intelligence, AICAI 2019				Engineering
Impact of data mining techniques in predictive modeling: A case study	DasGupta, S., Saha, S., Das, S.K.	Advances in Intelligent Systems and Computing	2019	3	3	JIS College of Engineering
Deep Convolutional Neural Network Based Facial Keypoints Detection	Dasgupta, M., Mandal, J.K.	Communications in Computer and Information Science	2019	1	5	JIS College of Engineering
Studies on die filling of A356 Al alloy and development of a steering knuckle component using rheo pressure die casting system	Das, P., Bhuniya, B., Samanta, S.K., Dutta, P.	Journal of Materials Processing Technology	2019	1	7	JIS College of Engineering
Comparison of low wind speed aerodynamics of unsymmetrical blade HDarrieus rotorsblade camber and curvature signatures for performance improvement	Sengupta, A.R., Biswas, A., Gupta, R.	Renewable Energy	2019	1	6	JIS College of Engineering

Compact dual wideband four/eight elements MIMO antenna for WLAN applications	Roy, S., Ghosh, S., Chakarborty, U.	International Journal of RF and Microwave ComputerAided Engineering	2019	1	4	JIS College of Engineering
Design factors of lumbar pedicle screws under bending load: A finite element analysis	Biswas, J.K., Sahu, T.P., Rana, M., Roy, S., Karmakar, S.K., Majumder, S., Roychowdhury, A.	Biocybernetics and Biomedical Engineering	2019	2	8	JIS College of Engineering
Study of silver nanoparticle/polyvinyl alcohol nanocomposite	Das, R.K., Das, M.	International Journal of Plastics Technology	2019	10	5	JIS College of Engineering
BIOMECHANICAL PERFORMANCE OF A MODIFIED DESIGN OF DYNAMIC CERVICAL IMPLANT COMPARED TO CONVENTIONAL BALL AND SOCKET DESIGN OF AN ARTIFICIAL INTERVERTEBRAL DISC IMPLANT: A FINITE ELEMENT STUDY	Bhattacharya, S., Roy, S., Rana, M., Banerjee, S., Karmakar, S.K., Biswas, J.K.	Journal of Mechanics in Medicine and Biology	2019	2	6	JIS College of Engineering
Development of noise model for InAsSb MOSFETs and their applications	Bhattacharjee, S., Biswas, A.	Microsystem Technologies	2019	2	6	JIS College of Engineering

n in low noise amplifiers						
Thermoelectric switching of singlewalled carbon nanotubes due to encapsulation of iodine atomic chain	Koley, S., Sen, S., Chakrabarti, S.	Journal of Physical Chemistry C	2019	9	15	JIS College of Engineering
An improved displacement model for microelectromechanical system based ultrasonic transducer	Pal, M., Maity, N.P., Maity, R.	Microsystem Technologies	2019	0	9	JIS College of Engineering
Eastern Himalayan glacial hazard analysis using UAVA brief approach	Das, S., Chakraborty, S., Rai, N., Dhar, A., Sadhu, A., Gautam, B., Verma, P., Singh, A., Sherpa, C., Chakraborty, M.	2019 URSI AsiaPacific Radio Science Conference, APRASC 2019	2019	2	6	JIS College of Engineering
Spam mail detection using data mining: A comparative analysis	Saha, S., DasGupta, S., Das, S.K.	Smart Innovation, Systems and Technologies	2019	1	7	JIS College of Engineering
SpinCrossover Assisted SpinSwitching and Rectification Action in HalfMetallic Graphitic Carbon Nitride	Bhowmick, R., Sen, S.	ChemPhysChem	2019	9	9	JIS College of Engineering



Tuning and transfer functional modelling of a prosthetic arm	Neogi, B., Barui, S., Das, S., Paul, S., Ghosh, J., Ghosh, S.	Journal of Computational Methods in Sciences and Engineering	2019	3	6	JIS College of Engineering
AI Doctor: An intelligent approach for medical diagnosis	Das, S., Biswas, S., Paul, A., Dey, A.	Lecture Notes in Networks and Systems	2018	1	5	JIS College of Engineering
A study on data acquisition and analysis in real time for prediction of cardiovascular disease in real time using indigenous lowcost CHMS	Dutta, M., Dutta, D., Sikdar, S., Dutta, S., Dutta, S.	Lecture Notes in Networks and Systems	2018	1	15	JIS College of Engineering
A modified bio inspired: BAT algorithm	Singh, D.	International Journal of Applied Metaheuristic Computing	2018	3	6	JIS College of Engineering
On design and implementation of an artificial lower limb	Das, S., Paul, S., Ojha, S.K., Neogi, B., Nazarov, A., Ghosh, J., Ghosh, S.	International Journal of Sensors, Wireless Communications and Control	2018	3	12	JIS College of Engineering
Assessment of uncontrolled intersections through calibration of VISSIM for indian traffic conditions	Datta, S.	Lecture Notes in Networks and Systems	2018	1	14	JIS College of Engineering

Cloud computing environment in big data for education	Singh, D.	Lecture Notes in Educational Technology	2018	2	11	JIS College of Engineering
Virtual data warehouse model employing cryptomath modulus operandi and intelligent sensor algorithm for cosseted t ransferenc e and output aug mentation	Chowdhury, R., Roy, O., Datta, S., Dasgupta, S.	Knowledge Computing and Its Applications : Knowledge Manipulation and Processing Techniques : Volume 1	2018	2	7	JIS College of Engineering
Some limitations of outcomebased education	Sanyal, A., Gupta, R.	Lecture Notes in Networks and Systems	2018	1	12	JIS College of Engineering
Server utilizationbased smart temperature monitoring system for cloud data center	Sahana, S., Bose, R., Sarddar, D.	Lecture Notes in Networks and Systems	2018	2	13	JIS College of Engineering
A Conceptual Software Model of EBusiness to Analyze the Growth Rate of a Product	Chatterjee, S., Chowdhury, S.R., Roy, K.	Advances in Intelligent Systems and Computing	2018	0	12	JIS College of Engineering
FogBased Hierarchical Search Optimization	Sahana, S., Bose, R., Sarddar, D.	Communications in Computer and Information Science	2018	2	11	JIS College of Engineering
Study and design on	Das, Z., Islam, A.,	International	2018	3	12	JIS College of

cyber interaction processes for cerebral palsy employees	Banerjee, D., Ghosh, M., Neogi, B.	Journal of Nanoparticles				Engineering
Effect of surfacetovolume ratio on eigenenergy in quantum ring	Bhattacharyya, S., Haldar, S., Deyasi, A.	Lecture Notes in Networks and Systems	2018	2	12	JIS College of Engineering
Walking support control system algorithms testing with brain computer interface (BCI) and augmented reality (AR) technology integration	Nikitenko, M.S., Zhuravlev, S.S., Rudometov, S.V., Neogi, B., Belyi, A.M.	IOP Conference Series: Earth and Environmental Science	2018	3	12	JIS College of Engineering
Effect of depth of cut on grindability of Inconel 600	Biswas, S.K., Kundu, A., Bose, S.K., Biswas, D., Banerjee, A., Majumdar, S.	AIP Conference Proceedings	2018	2	18	JIS College of Engineering
Euler number based feature extraction technique for gender discrimination from offline Hindi signature using SVM and BPNN classifier	Pal, M., Bhattacharyya, S., Sarkar, T.	2018 Emerging Trends in Electronic Devices and Computational Techniques, EDCT 2018	2018	2	6	JIS College of Engineering

A new approach to invisible water marking of color images using alpha blending	Patra, A., Saha, A., Chakraborty, A.K., Bhattacharya, K.	2018 Emerging Trends in Electronic Devices and Computational Techniques, EDCT 2018	2018	0	15	JIS College of Engineering
Effects of composition fraction on subthreshold behavior of InAs <sub>1-x</sub> Sb <sub>x</sub> channel UTB MOSFETs	Dey, S., Dey, B., Bhattacharjee, S.	2018 Emerging Trends in Electronic Devices and Computational Techniques, EDCT 2018	2018	1	16	JIS College of Engineering
Concept of mobile operator position based on neurocomputer interface and augmented reality	Kizilov, S.A., Nikitenko, M.S., Neogi, B.	IOP Conference Series: Materials Science and Engineering	2018	3	17	JIS College of Engineering
Introducing MIT rule toward improvement of adaptive mechanical prosthetic arm control model	Neogi, B., Islam, S.K.S., Chakraborty, P., Barui, S., Das, A.	Advances in Intelligent Systems and Computing	2018	3	13	JIS College of Engineering
Realization of RFID Based DAS Using an RF Transceiver and Huffman Coding	Ghosh, S., Kundu, P.K.	IETE Journal of Research	2018	1	12	JIS College of Engineering
Electric	Sindhu,	Advances	2018	1	12	JIS

discharge phenomenon in dielectric and electrolyte medium	M.K., Nandi, D., Basak, I.	in Manufacturing				College of Engineering
Optimal payment time in a twoechelon supply chain with pricedependent demand under trade credit financing	Giri, B.C., Bhat tajarjee, R., Maiti, T.	International Journal of Systems Science: Operations and Logistics	2018	1	11	JIS College of Engineering
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#### 3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	81	10	2	15
Presented papers	72	2	0	0
Resource persons	31	25	16	10
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### 3.5 – Consultancy

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

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
ME Dept.	E3 Cycle (Electric - Environment friendly Economic Class)	Eastern Rubber Industries Factory: Shed No. 8A, Phase II Industrial Estate, Nadia	135000
ME Dept.	Solar Toto (CNC Machin utilization charges)	Alvis Tyre Pvt. Ltd Block D, Kalyani (Under DIC - Kalyani)	322000
ME Dept.	Piezo Tyre Implementation addition with CNC utilization	SH Manufacturing Trading Pvt. Ltd. Kalyani Industrial Estate, Kalyani, WB	275000
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#### 3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
ME	Training to CNC	Alvis Tyre Pvt. Ltd. Block D, Kalyani	322000	2
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### 3.6 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Awareness Programme	JISCE,NSS	3	29
Slum area development	JISCE,NCC	4	30
Tree plantation programme	JISCE,NCC	3	64
Aadhaar Card Survey	JISCE,NCC	2	18
Free health Campaign	JISCE,NCC	4	68
Tree plantation programme	JISCE,NCC	4	38
Awareness campaing against the severer heat	JISCE,NCC	4	30
Cleaning Programme	JISCE,NCC	2	17
Awarness Programme	JISCE,NCC	5	33
Vivek Yatra	JISCE,NCC	5	90
Jal Sakti Abhiyan(Jal Dibosh)	JISCE,NCC	11	131
Blood Donation Camp	JISCE,NCC	6	49
Independence Day Celebration	JISCE,NCC	3	70
Republic Day Celebration	JISCE,NCC	3	70
CATC VIII	49 Bengal Battalion	1	15
CATC IX	49 Bengal Battalion	1	46
CATC XIIXIIIXIV(RDC Selection)	49 Bengal Battalion	1	9
IGC - group competition	49 Bengal Battalion	1	7
PRE RDC I	49 Bengal Battalion	1	5
PRE RDC II	49 Bengal Battalion	1	5
TSC IGC	49 Bengal Battalion	1	4

AITSC(AL INDIA THAL SANIK CAMP Delhi 2017)	49 Bengal Battalion	1	1
RDC(Republic Day 2018)	49 Bengal Battalion	1	1
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3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Governor Medal 2018	Best Cadet in Army Wing	NCC, West Bengal Sikkim Directorates	1
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3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Awarness Programme	JISCE	Program for Arsenic Drinking Water Awarness	5	33
Vivek Yatra	JISCE	Celebration of National Youth Day, 157th Birthday of Swami Vivekananda	5	90
Jal Sakti Abhiyan(Jal Dibosh)	JISCE	Water Conservation Awareness533	11	131
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### 3.7 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Student Exchange	10	JIS Group	10
Faculty Exchange	3	BRICS	7
Student Exchange	15	AIT Bangkok	15
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3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant

Internship	Internshala	Internshala	01/01/2018	30/12/2019	2146
Internship	Internshala	Internshala	01/01/2018	30/12/2019	84
Internship	AICTE Internship Portal	AICTE	01/01/2019	30/12/2019	748
Internship	Internship student partner	Internshala	01/01/2019	30/12/2019	8

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Micro, Small Medium Enterprise	24/05/2018	Host Institute JIS Business Incubation Centre Nucleation of new business ideas Nurturing business in their startup phase Promoting and running an active program for new venture creation	15
Institute of Coal of FRC CCC SB RAS Russian Federation	26/12/2018	Development of joint fundamental and applied research Implementation of Joint Educational programs Exchange of scientists, teaching and administrative staff Joint holdings of Seminars, Conferences and exchange of educational scientific material	14
Enterprise Development Institute, Kolkata (EDI)	30/07/2019	Student and Faculty Exchange, Visits, Joint and Collaborative Training, Workshop, Seminar Development and Maintenance of Centre of Excellence in various academic and co curricular	12



extra curricular  
areas

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## CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
269	220.54

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Classrooms with Wi-Fi OR LAN	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added

### 4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
LIBRARY MANAGEMENT SOFTWARE	Fully	4.6	2017

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	4290	86448	80	567	4370	87015
Reference Books	1780	2000	70	200	1850	2200
Journals	0	0	0	0	0	0
CD & Video	1924	2400	400	500	2324	2900
Weeding (hard & soft)	0	0	0	0	0	0

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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under

Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
DEBASREE MITRA	Informatics and Computing	IEI and TCS iON Digital learning platform	10/12/2018
Dr. Bikramjit Sarkar	Informatics and Computing	IEI and TCS iON Digital learning platform	10/12/2018
Mr. Jit Chakraborty	Society and Environment	IEI and TCS iON Digital learning platform	10/12/2018
Dr. Trina Dutta	Society and Environment	IEI and TCS iON Digital learning platform	10/12/2018
Sudipta Sahana	Review of translated content - Bengali for Introduction to Internet of things	SWAYAM NPTEL	13/06/2019
Rupak Bhattacharjee	Review of translated content - Bengali for Introduction to Research	SWAYAM NPTEL	13/06/2019
Partha Das	Electrical Machine I (60 Lectures)	NPTEL: English to Bengali Translation	06/03/2019
Dr. Trina Dutta	Review of translated content - Bengali for Soft Skills Development	SWAYAM NPTEL	23/12/2019
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#### 4.3 – IT Infrastructure

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

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

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

100 MBPS/ GBPS

##### 4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and

	recording facility
DIGITAL STUDIO 1 2	<a href="https://www.youtube.com/embed/3uIlj9L7XUI">https://www.youtube.com/embed/3uIlj9L7XUI</a>
DIGITAL STUDIO 1 2	<a href="https://www.youtube.com/embed/vWZzxwHx0OE">https://www.youtube.com/embed/vWZzxwHx0OE</a>

#### 4.4 – Maintenance of Campus Infrastructure

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

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

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

Information available in JISCE website
<a href="https://www.jiscollege.ac.in/">https://www.jiscollege.ac.in/</a>

### CRITERION V – STUDENT SUPPORT AND PROGRESSION

#### 5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Tuition Fee Waiver Freeship	159	11417000
Financial Support from Other Sources			
a) National	NSP, UGCNER, Aikyashree, SVMCM, Oasis-SC/ST/OBC Scholarship, Kanyashree -K2, EKalyan Scholarship, Nabanna Scholarship, Jindal Scholarship	495	10382000
b) International	NIL	0	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Pseudocode Training	18/08/2018	585	inhouse
Soft Skill Development Aptitude Class	21/08/2018	585	carrer launcher
pre assesement test	31/07/2018	585	Vista Mind Cocubes

HR Enlighten Workshop	05/02/2018	43	Enlighten
Project Management for Infrastructure Real Estate Industries	17/07/2018	20	ILS network
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Soft Skill Training	360	546	71	409
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
3	3	7

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Accenture	125	2	TCS	44	9
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	2	B.Tech	Biomedical Engineering	Jadavpur university Kolkata	M.E(Biomedical Eng)
2019	1	B.Tech	Biomedical Engineering	BIRLA GLOBAL UNIVERSITY, BHUBANESWAR	MBA
2019	2	B.Tech	Electronics and Communication Engineering	MAKAUT	M.Tech(ECE)
2019	1	B.Tech	ECE	Jadavpur University	ME (Communication).

2019	1	B.Tech	ECE	JISCE	M Tech MCNT
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	6
Any Other	3
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
JISCE_ Super league	Inter school	160
Photo competition Imagery	Inter and Intra college	100
JISTech Fest	Intra and Inter College level	560
ALEYAtouch of lens	College	250
Amar Durga Photography Competetion	College	100
Poster Competition on "Global Warming".	College	70
Remembering Tagore	College	40
WALL MAGAZINE COMPETITION	College	24
POETRY COMPETITION	College	78
SHORTFILMCOMPETITION	College	40
TAGSLOGAN COMPETITION	Inter and Intra College	23
Mathematical Quiz	College	96
Musical showcase on 18 th Foundation day	College	40
Fashion and Glam Hunt event titled ADRIJA	Intra College	16
JISCEIDOL	College	102
Short Drama Competition on #ME TOO	College	42
Annual sports	College	350
Football tournament	Inter Department	92
Cricket tournament	Inter Department	76
JISCE CHALLENGER'S CUP FOOTBALL TOURNAMENT	Inter College	14
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### 5.3 – Student Participation and Activities

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

Year	Name of the	National/	Number of	Number of	Student ID	Name of the
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	award/medal	Internaional	awards for Sports	awards for Cultural	number	student
2019	Winner Distric Level Quiz Competition organized by CEOWB	National	0	1	JIS/2016/0203 JIS/2016/0591	Swastik Barat Shalini Shaw
2019	2nd in kata	National	1	0	JIS/2016/0576	Soumi Majumdar
2019	3rd in Kumite	National	1	0	JIS/2016/0576	Soumi Majumdar
2019	1st in Kumite	National	1	0	JIS/2016/0576	Soumi Majumdar
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

The essence of the success story of any educational institute lies in the success of its students. An enthusiastic student fraternity coupled with an able student administration forms the base for scaling great heights. We at the Student Affairs Council of JIS College of Engineering look to channelize the energy and vigour of our student community and give voice to their opinion. It is our endeavour to faithfully represent the best interests of the student community and strive to create a vibrant atmosphere which will give rise to not only better academicians but also to better, wellrounded personalities. The main role of a Student Council is to promote the interests of the school and the involvement of students in the affairs of the school, in cooperation with the board, parents and teachers. Some general objectives could include: • To enhance communication between students, management, staff and parents • To promote an environment conducive to educational and personal development • To promote friendship and respect among pupils • To support the management and staff in the development of the school • To represent the views of the students on matters of general concern to them Student Council consists of three student representatives. Under the council there 11 clubs all clubs are mentored by teachers. Each club has individual working committee of Students including President, Secretary and Joint Secretary

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Yes. . The Alumni Association of JIS College of Engineering organizes regular basis ALUMNI MEET a programme to facilitate, consolidate and coordinate Alumni Activities at JIS College of Engineering. The planned objective was to interact with the alumni, planning different passed out batches, database updating of the alumni association, Taking Alumni Feedback etc. was conducted successfully.

5.4.2 – No. of registered Alumni:

6180

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

240000

5.4.4 – Meetings/activities organized by Alumni Association :

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

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

**6.1 – Institutional Vision and Leadership**

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

• Student Admission. • Student Attendance. • Online payment of fees for the students. • Online Learning Management and Campus Management • Digitized online library management system. • Evaluation Examination Procedure. • Online results announcement

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

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

Yes

**6.2 – Strategy Development and Deployment**

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

Strategy Type	Details
Teaching and Learning	Practicing Outcome Based Education (OBE) system of Education. All the faculty of the institution are trained in the contemporary and innovative methods of teaching and encouraged to attend various programmes on pedagogy. A new advanced digital teachinglearning process Flipped Learning has been introduced during the last academic year. In flipped learning the less cognitive tasks like remembering and

understanding will be done at home and complex cognitive tasks like analyzing, evaluating and creating are done at classroom. The flipped learning methodology converts a teacher centric class to a student centric class where the group learning space is reduced to individual learning space.

**Examination and Evaluation**

The Controller of Examination organises the Continuous Internal Evaluation Tests, the SemesterEnd Examination and the evaluation of the answer scripts. Steps are taken to ensure that the question papers conform to the standards of Bloom's Taxonomy. The examination system is now one step ahead with compare to traditional examination system. The entire evaluation process is digitized and made it online. The teacher can evaluate the exam papers at anytime from anywhere. The results of the semester end examinations are published within 30 days from the date of completion of the examinations. Supplementary examinations are conducted with the regular semester examination system.

**Research and Development**

The institution provides extensive opportunities to the faculty and students for research and development. It is committed to research in the areas of science, engineering and technology and has nurtured the centres of excellence, instrumentation centre, highcomputing infrastructure exclusively for research and development. The vibrant research and development activity in the college has resulted in receiving grants from organisations like DST, AICTE, UGC, DSTFIST, etc. and also a few industries. Faculty are primarily involved in research projects that are beneficial to the society.

**Human Resource Management**

Delegations of responsibility - some of the key responsibility areas are identified and delegated at different levels -Principal, VicePrincipal, Registrar, Deans, CoE, HODs Participatory Management - Subcommittee for different functional activities comprises representatives of teachers, nonteaching staff and students. It includes the involvement of the staff for organizing different programmes of the college. The Institutes gives



performance recognition by way of monetary incentives, like, sponsoring registration fees for the faculty members whose paper have been accepted at Seminars and Conferences (including International Conferences) providing the Ph.D registration fees to the candidates

Industry Interaction / Collaboration

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

Admission of Students

The Institute has a wellorganized and transparent admission system. All the admissions are based on merit in accordance with the rank obtained in the WBJEE or rank obtained in all India level entrance examinations JEE (Main).

Curriculum Development

A regular assessment of the curriculum is done through the feedback from the students, alumni, subject experts, employers and experts from the industry. The suggestions received from them are reviewed by the Department Committees (DCs). Relevant suggestions are considered for inclusion in the curriculum. In the process of developing the curriculum, care is taken to ensure adherence to norms and guidelines prescribed the AICTE and the UGC. New project based curriculum as per the latest guideline of AICTE has been developed with the specified reduced credit limit. In new curriculum choice based elective papers has been proposed both in departmental and open elective papers. The prescribed content of syllabus will have the topics that are covered in various competitive exams like GATE, IES, UPSC/ KPSC etc.

Library, ICT and Physical Infrastructure / Instrumentation

? Library, ICT and Physical Infrastructure / Instrumentation: Institute Central Library has nearly 88000 books and 2000 books were added during 20182019 period with 600 eBooks and more than 100 ejournals. Augmented

the LED/LCD Projectors, provided a state of the art video conferencing facility, increased the capacity of WiFi facility from 50 mbps to 100 mbps. Effective uses of Digital Library, Spoken Tutorial from IIT, Bombay, QEEE Programme, NPTEL

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

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

### 6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2018	Dr. Malay R Dave	Conducted Workshop at AIT Bangkok	nil	25000
2018	Mr. Sudipta Sahana	Training Programme at AIT Bangkok	nil	35000

2019	Mr. Debashis Sanki and Mr. Sudipta Sahana	UBA inauguration workshop	nil	22000
2019	Ms. Swati Pal	Training Programme at AIT Bangkok	nil	40000
<a href="#">View File</a>				

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2018	FDP on flipped learning	SDP on effective use of Ms Excell	02/07/2018	04/07/2018	203	0
2019	FDP on flipped learning	SDP on Professional Ethics	24/01/2019	25/01/2019	203	0
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
NASSCOM training on Product Design	4	02/07/2018	07/07/2018	6
Training on OUTCOME BASED EDUCATION PROCESS OF ACCREDITATION	2	19/07/2018	21/07/2018	3
Structural Engineering Convention	1	16/11/2018	21/11/2018	6
INFOCOM 2018	1	06/12/2018	08/12/2018	3
Workshop on Digital Teaching Learning at MAKAUT (Saltlake Campus Haringhata Campus)	1	22/04/2019	24/04/2019	2

Use of Digital Pedagogy in teaching learning process	6	02/05/2019	02/05/2019	1
FDP 2019 under APAI supported by MAKAUT	1	15/01/2019	19/01/2019	5
STTP on Environmental Crisis and Sustainable Development	1	02/09/2019	07/09/2019	6
One day workshop on SCADA application in Power System	1	24/04/2019	24/04/2019	1
FDP 3days under AICTE on induction Program at Sister Nibedita University	1	18/07/2019	20/07/2019	3
FDP Outcome Based Education at GNIT	1	19/07/2019	21/07/2019	3
Workshop on Effectiveness of Mentoring System	2	04/01/2019	04/01/2019	1
FDP Student Induction Program by AICTE	4	16/07/2018	18/07/2018	3
AutoCAD and Fusion 360 Under NASCOM	4	02/07/2018	06/07/2018	6
Workshop on Outcome based Education Accreditation System	4	19/07/2018	21/07/2018	3
1 Day International Workshop on Flipped Learning	13	02/10/2018	02/10/2018	1
FDP on Flipped Learning	13	21/06/2019	21/06/2019	1
National workshop on BioInformatics	1	11/03/2019	12/03/2019	2

from Sequence Structural Perspective				
6th International Doctoral Symposium on Applied Computation Security Systems (ACSS 2019)	1	12/03/2019	13/03/2019	2
Two Days Workshop on Smart Publishing	1	17/01/2019	18/01/2019	2
2ND National Leadership Conference for first Generation Entrepreneurs	1	12/12/2019	13/12/2019	2
Global Blockchain Congress 2018	1	18/12/2018	19/12/2018	2
Training on Outcome Based Education and Process of Accreditation at GNIT	3	19/07/2019	21/11/2019	3
Analyst Application Security: NASSCOM Training at GNIT	2	09/07/2019	14/07/2019	6
One Week Faculty Development Program On Higher Education Faculty Career Orientation and Advancement, (CEGR Certified Faculty)	16	18/06/2018	22/06/2018	6
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time

13	13	2	2
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6.3.5 – Welfare schemes for

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

**6.4 – Financial Management and Resource Mobilization**

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

Yes. Institute organizes auditing quarterly basis internally and annually external basis by audit firm. The Institute has a mechanism for internal and external audit to ensure financial compliance. The institutional accounts are regularly audited. The observation of the auditors if any are immediately corrected / rectified. Internal Audit: The internal audit is an ongoing continuous process. Qualified Internal Auditors from external resources have been permanently appointed and a team of staff under them do a thorough quarterly basis check and verification of all payments, receipts journals vouchers of the transactions cash books, ledger account review that are carried out in each financial year on an accrual basis system. External Audit: The external auditor appointed by the college performs audit of the financial statements of the college. The financial records are audited by qualified chartered accountants after the end of each fiscal year is certified income expenditures, balance sheet and prepared notes to accounts are certified. Statutory financial audit of Institute is conducted in two sessions, first in the month of October November/ December for period of six months starting from 1st April to September and second in the month of May/ June for the period from October to March. Finalization of account is completed in June and audited statement is prepared in July. The audited statement is duly signed by Principal, Chairman and Chartered Accountant. Budgetary provisions for the departments are made based on the requirements/inputs provided by the HOD. The departments propose their budgetary requirement for the particular year. In the capacity of the Member Secretary of the Board of Governors, the Principal puts forth proposals on finance related matters and seeks approval and ensures its apt implementation. Annual budget for institute is prepared at the beginning of financial year, considering potential income and expenditures (recurring and nonrecurring) involved for the year.

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
JIS Group	6100000	International Conference, Faculty International Travel, Seminar, Tech Fest etc
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6.4.3 – Total corpus fund generated

**No Data Entered/Not Applicable !!!**

## 6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Expert from IISc, Bangalore.	Yes	JIS GROUP
Administrative	Yes		Yes	JIS GROUP

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

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

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

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

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

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

### 6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	No
d) NBA or any other quality audit	Yes

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

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Quality Assurance on Digital Pedagogy	24/01/2019	24/01/2019	25/01/2019	203
2019	IPR Awareness Programme	10/01/2019	10/01/2019	10/01/2019	250
2018	Monitoring and assessment of Flipped Learning methodology and Mentorship	02/07/2018	02/07/2018	02/07/2018	203

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**CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES****7.1 – Institutional Values and Social Responsibilities**

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Gender Equality	05/06/2019	12/06/2019	85	38

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

Percentage of power requirement of the University met by the renewable energy sources

The 5 KWp Roof top SPV Power Plant is being set up in the college. Necessary instruments for the execution of the project have been installed. The various data of this SPV power plant is recorded and an analysis is on process. The inverter used is an isolated solar inverter which synchronizes the power from SPV plant with the existing grid. This inverter goes into an isolated state when the existing grid supply is cut off. The estimated energy that can be generated from this plant is calculated using the technical specifications of the modules, inverter and other equipments used in the project. A simulation model has been made using PVSYST, a SPV simulation software for loss analysis.

Objective of this Initiative : i) To provide the power for the PEAK load by usual grid compensation with SPV. ii) Observation of Bus bars synchronization. iii) Estimation of annualize life cycle cost of this project for 20 years. iv) Estimation of carbon credit from the project. v) Estimation for modernization of West Bengal power plant with implementing SPV system to provide peak load demand.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	5
Provision for lift	Yes	5
Ramp/Rails	Yes	5
Braille Software/facilities	No	0
Rest Rooms	Yes	5
Scribes for examination	Yes	5
Special skill development for differently abled students	Yes	5

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
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2019	1	1	11/07/2018	1	Awareness about the potentiality of the micro and small scale business in the locality	Development of Local Entrepreneur.	81
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#### 7.1.5 – Human Values and Professional Ethics

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

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

Activity	Duration From	Duration To	Number of participants
Swachh Bharat Abhiyan	01/10/2019	02/10/2019	280
Induction Program	02/08/2019	22/08/2019	534

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

OnGrid Solar Power Plant: The 5 KWp Rooftop SPV Power Plant is being set up in the college. Necessary instruments for the execution of the project have been installed. The various data of this SPV power plant are recorded and analysis is on the process. The inverter used is an isolated solar inverter which synchronizes the power from SPV plant with the existing grid. This inverter goes into an isolated state when the existing grid supply is cut off. The estimated energy that can be generated from this plant is calculated using the technical specifications of the modules, inverter and other equipment used in the project. A simulation model has been made using PVSYST, an SPV simulation software to get a loss analysis.

Solar Tree Solar Streetlights: Tree proves to be the most beneficial source of energy. The solar tree blends art and solar energy technology in a sculptural expression. Solar trees are both artistic and functional clean energy machines. The term solar tree has been used to describe a variety of structures incorporating solar energy technology on a single pillar (like a tree trunk). Solar Tree implementation as an alternate source of energy in urban cities. The installation of large solar collectors requires a very big space which is the main problem associated with tapping solar energy. This problem can be avoided by installing a Solar Tree requiring less space instead of a no of solar panels. To satisfy pressing environmental and social demands for urban lighting solar tree opens new prospects.

Solid Waste Management: All the waste from the JIS College campus is collected into waste bins marked as biodegradable and nonbiodegradable. Then all those wastes are collected into two vats separately by the cleaners. The waste then removed at a regular interval by Kalyani Municipality. Biodegradable materials such as fruit peels and tea and coffee grains are converted into manure in compost pits. Nonbiodegradable materials such as paper and plastic waste are segregated and resold by the college. Our environment and education club transfer the message "Reduce, reuse, and recycle" successfully especially at each semester's beginning and end with the active participation of students organizing special events, and involving local charitable organizations.

Biogas Generation: This is floating type biogas generator consist of two PVC water buckets of 1000lt and 500lt capacity respectively (one bigger than the other), with the top of each bucket is cut open so that the smaller one can fit into the bigger bucket and move like a "telescope". The bigger bucket (or drum) serves as a digester,

and the smaller, placed upside down in the bigger one serves as the gasholder. The inlet flexible pipe, a bit longer than the height of the tank, is fitted at the bottom side of the bigger tank. The effluent outlet is fitted to the upper part of the bigger tank and determines the maximum level of matter in the tank. The gas outlet is fitted to the smaller inne

## 7.2 – Best Practices

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

? Modern innovative teachinglearning method (Flipped Learning and Blended Learning): The Institution made a paradigm shift in the teachinglearning process by introducing "Flipped Learning". JISCE is the pioneer institution in India to initiate full scale Flip Learning in it's Engineering education. <http://www.jiscollege.ac.in/pdf/bestpractices.pdf> ? Implementation of Online Learning Management System(LMS): The Institute has successfully implemented the online platform for creation of routine, attendance monitoring and repository of digital contents and questions. <https://jis.creatrixcampus.com/> Centre for Innovation, Incubation and entrepreneurship (IIPC) is established to facilitate Innovation through Research and collaboration for translating domain expertise into products or technologies. The Centre aims at fostering entrepreneurial spirit, promote startups by providing appropriate incubation facilities, offer consultancy services and improve industry institute interaction. It envisages creating products and technologies that address the societal needs and also nurture the innovative minds. Create an ecosystem for innovation and entrepreneurship through incubation support, facilitation of technology transfer for commercialization by multidisciplinary approach. To provide the opportunity for students to use their learning to solve complex engineering challenges, through projects. Transform prototypes and proof of concepts into Product/Technology/Service across the campus THROUGH JIS TechFest. Become a hub for entrepreneurial activities across the state. Build strong network of Mentors/Advisors across the verticals. Provide necessary infrastructure support to incubate to progress in their ideas. Facilitate interaction between industry, institution and funding agencies to transform concept to commercialization Leverage schemes of the Government bodies towards promoting entrepreneurship. Training the inhouse faculties for the handson in the latest software3D Experience for the research work and subsequent product development. It will provide relevant guidance and required experience in training the research scholars and students who are carrying out their projects. It covers a wide area of field of study like Mechatronics, CAD/CAD, CAE, Systems Engineering, and Product Life Cycle Management. Effective Implementation of Outcomes Based Education: Since 2014, India is recognized as a signatory of the Washington Accord, and students graduating from accredited programs of TierI Institutions (Autonomous Institutions) shall have global recognition. Since, our institution has academic autonomy, focused efforts were in place towards ensuring graduating engineers from all programs demonstrate expected skill and competency leading to their global recognition. This task towards global recognition of our graduates became easy, as the expected global attributes were embedded through the Program Outcomes (POs), defined by the National Board of Accreditation (NBA). Hence, all activities on campus (academic, activities beyond curriculum, cocurricular and extracurricular) were focused on developing the POs leading to an effective implementation of Outcomes Based Education (OBE), as it would then lead to global recognition of our graduates. India was a provisional member of the Washington Accord, and in the process of attempting to become a signatory. This process required the need to embrace OBE in the true sense. Accordingly, at the National Level, the parameters for accreditation were redefined, and were aligned to meet the minimum expected global standards. It is to be recalled that among the initial accreditation visits conducted by NBA, there included a team of International observers, to

oversee the accreditation processes. In this context, our Institution had the opportunity to represent a sample institution in the Private Engineering College category. It is with pride we would like to mention that the first accreditation visit for five of our Undergraduate engineering programs in the TierI format (to assess effective implementation of OBE), had International observers, with two of the five UG programs getting full accreditation. This initiative by the Institution lead to innovations in the class room by teachers in the delivery methods, innovation by faculty in assessment tools and hence, contributing to the overall development of the student learning, with conscious efforts in developing the expected program outcomes defined by NBA, and hence ensuring our graduates have global recognition. This improved competency of the students resulted in enhanced student performance both when on campus and after graduation as our alumni. We would like to add that this journey of embracing OBE was a collective effort by all stakeholders, both direct and indirect. The initial learning was from the series of training programs conducted by NBA. This was then followed by series of brain storming sessions to comprehend and implement the processes of OBE. The academic leaders were able to perform with unconditional with support from management. To conclude, there were no constraints or hurdles in this path of adopting OBE. In addition, all academic leaders have willingly shared this journey and learning experience in various platforms, to help other institution of higher education to grow and contribute to the progress of the nation. Few are listed below: Conducted various Faculty development programs in the domain of OBE (one of the FDP was supported by NAAC), Uploaded the OBE content on the college website, Delivered several invited talks on OBE, Delivered webinars on OBE, Published papers in the domain of OBE in National and International forums (WOSA by NBA).

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

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

### 7.3 – Institutional Distinctiveness

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

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

Provide the weblink of the institution

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

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

1. Curriculum fine restructuring (more electives) if required 2. Extending the flip learning infrastructure (Studio 2 7 more flipped class room) 3. Optimum utilization of digital studio 1 4. Academic Audits for various departments as per NBA TierI 5. Refine the students' feedback handling procedure 6. Examination Reforms Complete Digital Evaluation Process 7. Administration Reforms Through didital platform 8. Enhance research activity and SCI International journal publications 9. Application for Patent Publication in Thomson Reuters 10. To promote collaborative research through MOU'S. 11. Enhance consultancy services

12. Applied for being PhD guide to the affiliating University 13. Creation of incubation centre(s) 14. Apply for NBA accreditation for Mechanical Engineering 15. Restriction on plastic usage inside the campus 16. Clean Green Campus