



# **SELF STUDY REPORT**

**FOR**

**3<sup>rd</sup> CYCLE OF ACCREDITATION**

**J. B. INSTITUTE OF ENGINEERING AND TECHNOLOGY**

**BHASKAR NAGAR, YENKAPALLY(V), MOINABAD (M) , RANGAREDDY  
DISTRICT , HYDERABAD , TELANGANA STATE**

**500075**

**[www.jbiet.edu.in](http://www.jbiet.edu.in)**

**SSR SUBMITTED DATE: 09-07-2021**

**Submitted To**

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**BANGALORE**

**July 2021**

# 1. EXECUTIVE SUMMARY

---

## 1.1 INTRODUCTION

J.B. Institute of Engineering and Technology (JBIET) was established in 1998 under the aegis of J.B. Educational Society. It is run under the able guidance of Shri J.V. Krishna Rao, Secretary of the institution. Shri J.V. Krishna Rao is a great visionary and an able administrator with a strong desire to provide quality education and shape the minds of the young students for their bright career. The Institution is situated at Bhaskar Nagar, Moinabad, Ranga Reddy District, Telangana about 20 km from the city of Hyderabad. The campus is serene and congenial with peaceful environment which spread over a sprawling area of 12 acres and surrounded by lush green and fertile lands. Thus, the location is with idyllic beauty, ideal and appropriate for peaceful and productive learning, leading the students towards a promising future. The campus possesses eco-friendly environment.

JBIET has been approved by AICTE and permanently affiliated to JNTUH, Hyderabad. The institution was started with 4 B. Tech programs with an intake of 240 students. Currently the Institution is offering 14 programs with a total intake of 936. The Institution has grown in various aspects since its inception and achieved many milestones.

The Institution received accreditation from NBA for two programs in 2006 and one program in 2007. The Institution was accredited by NAAC in 2010. Autonomous status was granted to the Institution by UGC in 2014. Institution was again accredited by NAAC in 2016 in the II cycle. Continuous improvement in various aspects of the Institution resulted extension of Autonomous status by UGC till 2025. Recently four of UG programs were accredited by NBA for three years.

The institute maintains high standards of technical and management education by providing a wide array of world-class academic and infrastructure facilities. The Institute has been ranked 9 among Telangana Private Engineering Institutes in Research and Development, ranked 10 for Overall Performance in 2020-21. In addition, ranked 59 among Top 100 Private Engineering Institutes, ranked 69 among Engineering Institutes in India in 2020-21.

### **Vision**

“To be a centre of excellence in engineering and management education, research and application of knowledge to benefit society with blend of ethical values and global perception”

### **Mission**

1. To provide world class engineering education, encourage research and development.
2. To evolve innovative applications of technology and develop entrepreneurship.
3. To mould the students into socially responsible and capable leaders.

## Quality Policy

J.B. Institute of Engineering and Technology is committed to provide quality education to the students enabling them to excel in the fields of science, Engineering, Technology and Management to cater to the changing and challenging needs of the society and industry through the following initiatives:

- Contributing to the academic standing and overall knowledge development of the students.
- Maintaining state of the art infrastructure and congenial learning environment.
- Enhancing the competence of the faculty to a very high level and to make them adopt all modern and innovative methods in teaching- learning process.
- Inculcating moral and ethical values among the students and staff.
- Collaborating with industry, other institutions, and organizations for mutual benefit.
- Promoting Research and Development program for the growth of the economy.
- Disseminating technical knowledge in the region through continuing education programs.
- Ensuring continual improvement of Quality Management System.

## Core Values

- To develop core competency amongst staff and students.
- To develop competency in areas relevant to the latest technology, state and national needs.
- To promote research with multi-disciplinary /integrate approach, relevant to the industrial needs.
- To provide industrial / in-plant training to the students during vacation.
- To produce citizens having holistic approach and to become globally competent technocrats.

## 1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

### Institutional Strength

- Proactive and Visionary management
- Sprawling and enthralling landscape.
- Conducting remedial classes for slow learners and additional support for advanced learners.
- Effective and efficient mentor system
- In-house project facilities for the students.
- Vision, Mission, Programme Educational Objective are well defined and followed
- Availability of Strategic Planning

- Excellent infrastructure facilities
- Well qualified, committed and experienced faculty
- Well stacked library of text books, journals and digital resources
- Innovative Curriculum Design and Development
- Practicing outcome-based Education
- Good Success rate of students
- Excellent research facilities
- Robust network infrastructure in place
- Good placements record
- Use of ICT tools by all faculty members
- Well-equipped and neatly maintained Laboratories
- Adequate infrastructure for the start-up eco system
- Alumni engagement for the institute's growth & development
- Exclusive Training & Placement Cell with adequate facilities for training
- Good relationships with the industry
- Well maintained hostels for boys and girls with additional amenities
- Indoor and outdoor sports facilities
- Outreach and extension programs
- Active student environment-learning communities, programs, student organizations and clubs
- Ever-growing Innovation and Entrepreneurship awareness activities
- Regular Parent-Teacher Meetings
- Industry specific add-on training programmes
- Latest Industry-relevant curriculum
- Mandatory internships for the students in the curriculum
- Training students on life skills from beginning of the program
- Well established career guidance cell
- Incentives to faculty for promoting Research and Development
- Empowerment of faculty and decentralization of administration
- Distinguished Alumni in civil services, as entrepreneurs and with MNCs
- Welfare schemes for faculty and students

### **Institutional Weakness**

- Difficulty in getting quality doctorates for faculty positions
- Poor Communication skill of students as most of the students are from rural areas
- Lack of diversity of students
- Delay in release of scholarship amount, thereby affecting various institutional activities planned as per strategic plan.

### **Institutional Opportunity**

- Establish academic links with renowned national and international institutions for student exchange and

interactions to enhance the level of their knowledge in the respective areas

- Enhance faculty exposure to industry by sending them to industries and use the experience to improve the curriculum from time to time
- The Industrial visits for students to increase industry interactions and employability
- Students exposure to real world problems and solutions
- Scope to harness potential of strong Alumni base for betterment of the Institution
- Transform pedagogical practices and adopt latest technological relevant courses in curriculum
- Scope to incubation facilities for tech-based start-ups providing higher viability for market Space
- Possibility of networking among academia, R&D institutions and local industry to form R&D clusters.
- Increased access to get funds from various government and non-government agencies for Research and Development Activities.

### **Institutional Challenge**

- Retention of the faculty
- Creeping commercialization posing challenges to quality education in higher education.
- Elevating the institution to the deemed status.
- Continuous change in technology that challenges the employability of the students and poses challenge in setting the right curriculum
- Reluctance of engineering graduates to join PG courses in engineering due to perceived lack of significant benefit in employment for PG degree holders other than in the academia

## **1.3 CRITERIA WISE SUMMARY**

### **Curricular Aspects**

J.B. Institute of Engineering and Technology (JBIET) has been conferred autonomous status by UGC in 2014. Since then, the institute has been designing and refining its curriculum based on its Vision and Mission to provide high quality education to its students. Design and development process of the curriculum remained an inclusive and a continuous practice. The institute follows choice-based credit system (CBCS) and curriculum is carefully designed to incorporate AICTE model curriculum and fulfil the requirements of the stakeholders.

Development and revision of the curriculum is very robust and is based on ever changing advancement in technology and inputs received from various stakeholders. Department Academic Committee prepares a draft on curriculum, Board of Studies (BoS) examines and refines after thorough discussions. Then, Academic Council (AC) reviews and approves it for implementation after long deliberations. The approved curriculum is informed to the Board of Governors and finally shared with all stakeholders and implemented.

In order to ensure holistic development of the students, the institution has incorporated life skills in curriculum. Appropriate credits are also given to internship and project works to encourage experiential learning among the students. The institution also has MoUs with various reputed organizations to provide required training to the students and make them potential in facing interviews.

There have been remarkable changes in the curriculum during last five years. Syllabi of all the programs were revised. A total of 316 new courses were introduced and a total of 800 distinctive courses were offered during last five years. Core focus of these courses was not only to impart employability skills, but also inculcate skill development and entrepreneurship skills.

A total of 74 add-on or value-added courses were offered by the institute during last five years with an aim to make the students globally competent and address real-world problems. More than 51% of students took part in these courses and got benefitted. In order to enable the students to achieve all graduate attributes, feedback from all stakeholders is taken, analysed and gaps in the curriculum are bridged to keep the curriculum relevant to the local and global needs.

### **Teaching-learning and Evaluation**

The better rankers from the state of the Telangana prefer joining JBIET. The seats are filled for 8 UG programs through state level entrance examinations and 6 PG programs through state and national level entrance examinations. The institute strictly follows the reservation policy issued by the government of Telangana. As students come from diverse backgrounds, the institution provides academic and other support. Remedial classes and bridge courses are conducted for slow learners and for lateral entry students respectively. The institute follows a Mentoring system in which around 20 students are assigned to a faculty.

The institute is supported by efficient member of faculty with an average experience of over 6 years. The institute maintains the requisite teacher-student ratio. The courses are assigned to the faculty based on their competencies and specializations. Various teaching learning methodologies such as problem solving, participative learning and experiential learning are adopted through ICT enabled infrastructure. The institution prepares course plans and course files well before commencement of classes and adheres to academic calendar.

Assessing learning levels of the students is a continuous process at JBIET. Based on the assessment, students are divided into slow learners and advanced learners. Slow learners are provided with remedial classes to improve their subject knowledge and skills. On the other hand, advanced learners are encouraged to take part in on-going research, explore content beyond syllabus, enrol in online certification courses by NPTEL/SWAYAM/MOOCs. To bridge the gap between the curriculum and the industry requirements, domain specific technical training programs are conducted. To further strengthen students' domain knowledge guest lectures, workshops, conferences etc. are also organised.

The examination section of the institute monitors, reviews and revises the conduct of assessments and evaluation in a systematic way and ensures transparency in its processes. It has brought in numerous IT reforms to automate various activities starting from student registrations to declaration of results. In addition, the examinations branch has a manual of its processes and releases its consolidated examination reports annually.

The departments compute the attainment of COs and POs/PSOs regularly and takes necessary action based on the target attainment levels.

### **Research, Innovations and Extension**

Eco-system and linkages with Government R&D Institutes, Industry and Consultancy agencies have been instrumental in promoting research at JBIET. Efforts of the members of faculty and support from the institution

are evident from number research papers published in peer-reviewed renowned journals. About 500 research papers are published by our faculty the publications of our faculty and are also cited by global research community. Moreover, these contributions are reflected in the citation index too. JBIET has been promoting the research by providing seed money to carry out research in emerging areas. The Institute granted more than 9.75 lakhs of seed money to its faculty. The Institute has well established and equipped advanced research labs.

The Institute has formed Research Coordinators Committee and an Industry Institute Interaction Committee for promoting and directing Research and Consultancy. The faculty share the generated revenue according to defined revenue sharing policy. Genuine research work is ensured through well publicised plagiarism policy document.

JBIEET promotes research among its faculty members by offering financial incentives for taking membership with reputed technical associations. In addition, the members of faculty are motivated and financially rewarded for taking part in international and national conferences. Institution has a research policy and incentives are given to the faculty as per the guidelines of the policy.

The institute makes every effort to inculcate entrepreneurial skills among the students. Innovation and incubation centre at the institute has been providing guidance and helping-hand to budding entrepreneurs to roll out their start-ups. Additionally, the institute organizes various talk series and awareness camps in association with JB Institute of Inventors Association of India. Numerous collaboration resulted in various internships, projects and industrial visits.

The institute encourages and ensures holistic development of the students by motivating them to take part in several extension activities conducted by the institution. JBIET has organized more than 60 number of extension activities during last five years and received many awards in this regard. Furthermore, the Institute has displayed its philanthropy by adopting five of village.

### **Infrastructure and Learning Resources**

The institute has ICT enabled classrooms, seminar halls, well equipped laboratories, sports facilities and better infrastructure spread over 12.0 acres with a total built-up area of 18518 Sq.m with lush lawns, beautiful landscape, aesthetic architecture and eco-friendly environment. The institute has well furnished, ventilated and illuminated classrooms. Lift and ramp facilities are also provided for easy access of *divyangans*. The institute has more infrastructure facilities than the minimum requirements laid down by the statutory bodies.

The instructional facilities include 59 classrooms, 70 laboratories, 05 Seminar halls and Auditoriums with proper ventilation, acoustics and ICT enabled. The Administration facilities include office of the Principal, offices of HODs, Faculty rooms, spacious Examination Control Office, Placement Office with Interview panel rooms, and Security office. Moreover, a bank with ATM facility is also available on campus.

The Institute has a dedicated library with more than an area of 1148 Sq.m and seating capacity of 250. The library is automated with KOHA Library Management Software (version 19.5). Library at JBIET has 9913 titles and 74248 volumes, rare books, journals, and special reports. In addition, digital library with 28 number of systems is also available to access e-resources and for the academic purpose. The Institute allocate budget every year for various learning resources and expands its base.

The Institute has a committed team to look after various IT infrastructure works. The Institute has a total of

1119 systems with student computer ratio of about 2:1 for academic purpose. The institute has 05 Servers and 500 Mbps Internet bandwidth to support 10 Gbps LAN and Wi-Fi. Total campus area is Wi-Fi enabled. The institute has a well-defined IT policy in place for the effective utilization of the IT infrastructure. Classrooms and laboratories are provided with a total UPS of 200 KVA capacity, Power Generators of 160 KVA and other required safety facilities. CCTV surveillance system has also been in place.

The institute provides various infrastructure facilities for sports and cultural events. All the facilities at the institution are well maintained through a systematic process and with the help of well-defined maintenance policy.

### **Student Support and Progression**

More than 60% students of JBIET received scholarship from the Government of Telangana and Government of India. In addition, the Institute has also been supporting the economically weaker but academically strong students through the institutional scholarship. More than 4% of the students were benefitted through the institutional scholarships during last five years.

Students' skills other than curriculum are enhanced through various capability enhancement programs at the institution. Career Guidance Cell (CGC) of the institution provides Career Counselling, guidance for Competitive Examinations, Bridge courses and facilitates students to achieve their goals. Furthermore, meditation and yoga classes are also organized for overall development of the students. Almost all the students are benefitted from CGC. The Institute imparts life skills among the students during the most of their study at the institution. The Institute has dedicated life skills lab and a team of faculty members to train students on life skills.

The Institute has a well-established Grievances Redressal Cell for the students to address any grievances. Zero tolerance on ragging has been the motto of the Institute to make it ragging-free and student friendly campus. Students are equally encouraged to take part in co-curricular and extra-curricular activities. Many of the students were awarded for their performance in sports. Institute also organizes many cultural and sports events every year.

JBIET has a dedicated Training and Placement Cell to provide training and help students get placed. More than 40% of eligible students got placed in various companies during last five years. Students are also motivated and guided to pursue higher education. Many students have been getting qualified in various competitive examinations such as GRE/TOEFL/GATE etc. The Institute ensures involvement of students in various committees such as Board of Studies, National Service Scheme (NSS), Cultural Clubs, Sports Clubs, and Technical Associations for holistic development of the students.

The Institute has a registered Alumni Association and it contributes to the academic and overall development of the institution. Alumni association meets are conducted every year on campus to strengthen the bondage between the Institute and alumni and foster a sense of togetherness with alumni.

### **Governance, Leadership and Management**

JBIET has a governance model which is decentralized, democratic, participative and transparent to all its stakeholders and it is in line with the Institute's Vision, Mission and Quality Policy. The Institute has a well-



developed strategic and perspective plan with tangible goals which influences the growth of institution. The management plans for holistic development of the institution through academic excellence and professional ethics.

The Institute adopts decentralization of various activities at various levels and functions through various statutory and non-statutory committees. Seamless functioning of academic, administrative and financial activities of the Institute is ensured through functioning of about 20 committees. The Institute is known for its Student Discipline, Teaching and Learning Process, Evaluation, Research and Development and Extension activities. Various welfare schemes such as free transport, Employee Provident Fund (EPF), Maternity Leave, Medical Leave and CCLs are extended to teaching and non-teaching staff.

JBiet implements and updates e-governance in various areas of the institution. The Institute also motivates the faculty to attend conferences / workshops and provides financial incentives for attending the same. Faculty are also encouraged to take part in various Professional Development Programmes, Orientation /Induction Programmes, Refresher Course, and Short-Term Course. The Institute conducts Finance Committee meetings regularly and financial resources are planned and mobilized as per schedule to meet various requirements of the institution. Both internal and external financial audits are done to verify any discrepancy in the areas of finance and accounts at the Institute.

JBiet considers internal quality as top priority. The Institute strategically enhances the quality of teaching and learning process through continuous new initiatives such as Faculty Self-Appraisal, Training Programs for Teaching and Non-teaching staff, Workshops, Conferences, Educational Reforms, Setting the Quality Bench Marks, Key Performance Indicators, Incentives, Academic and Administrative Auditing (both internal & external), and Student Mentoring System etc. through IQAC of the Institute.

Institute's IQAC has taken up various quality initiatives such as feedback from various stakeholders, collaboration with various institutes, participation in NIRF and played a key role in getting awards from various government and non-government agencies.

### **Institutional Values and Best Practices**

JBiet maintains a well-balanced gender equity not only in terms of number of job opportunities given to women but also their representation in the Institution. The Institute has 32% of girl students and 28% women employees. Various strategic steps are taken from time to time to bring sensitivity on the gender related issues and provide an equal opportunity for all the genders. Women Cell (Grievance and Redressal) was established to maintain safety and security of the women faculty and girlstudents. The Institute has taken various steps to minimize, recycle and reuse different types of wastes generated by the Institute. More than 60% of Institute's total energy is met through renewable energy sources.

Natural water resources are effectively utilized by keeping in place waster harvesting pits at various important locations on campus. The Institute has implemented various green practices and promoted and improved eco-friendly environment on the campus. Various audits such as energy, green, and environment are conducted for the Institution. JBiet has also received appreciation for its well-maintained lush greenery and adopting various green initiatives on campus. The Institute provides access to various facilities for *divyangans* through its infrastructural facilities.

The Institute regularly celebrates birth/death anniversaries of the great Indian personalities and national

festivals every year. 3600 Student Capacity Building for Enhanced Employability and Lifelong Learning and Holistic Faculty Development through Intensive Teaching Workshop have been two best practices implemented by the Institution. The Institute has imparted life skills to students almost throughout the duration of the study for shaping and preparing the students to pursue better career during and after their studies. Teaching skills of the faculty members are enhanced from time to time through Intensive Teaching Workshops.

JBLET strives to impart importance of societal consciousness apart from excellent regular academic knowledge. The Institute has organized numerous extension activities and received many awards in this regard. In addition, the Institute has helped many individuals, families and villages through its philanthropic activities. JBLET has shown its distinctiveness in helping others and sharing the social responsibilities through various activities across the nation.

NAAC

## 2. PROFILE

### 2.1 BASIC INFORMATION

Name and Address of the College	
Name	J. B. INSTITUTE OF ENGINEERING AND TECHNOLOGY
Address	Bhaskar Nagar, Yenkapally(V),Moinabad (M) , RangaReddy District , Hyderabad , Telangana State
City	Hyderabad
State	Telangana
Pin	500075
Website	<a href="http://www.jbiet.edu.in">www.jbiet.edu.in</a>

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Niraj Upadhayaya	08413-235127	8008884683	08413-235127	principal@jbiet.edu.in
IQAC / CIQA coordinator	Sumagna Patnaik	08413-235051	9440724856	040-23304036	iqac@jbiet.edu.in

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	
Date of Establishment, Prior to the Grant of	01-01-1998

'Autonomy'	
Date of grant of 'Autonomy' to the College by UGC	19-06-2014

University to which the college is affiliated		
State	University name	Document
Telangana	Jawaharlal Nehru Technological University	<a href="#">View Document</a>

Details of UGC recognition		
Under Section	Date	View Document
2f of UGC	20-03-2012	<a href="#">View Document</a>
12B of UGC	20-03-2012	<a href="#">View Document</a>

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	<a href="#">View Document</a>	15-06-2020	12	Every Year AICTE issues Extension of Approval EOA

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Bhaskar Nagar, Yenkapally(V),Moinabad (M) , RangaReddy District , Hyderabad , Telangana State	Rural	12.5	20627.12

## 2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BTech,Computer Science And Engineering	48	INTERMEDIATE	English	120	110
UG	BTech,Mechanical Engineering	48	INTERMEDIATE	English	120	33
UG	BTech,Electrical And Electronics Engineering	48	INTERMEDIATE	English	120	63
UG	BTech,Electronics And Communication Engineering	48	INTERMEDIATE	English	120	83
UG	BTech,Information Technology	48	INTERMEDIATE	English	60	47
UG	BTech,Civil Engineering	48	INTERMEDIATE	English	120	63
UG	BTech,Electronics And Computer Engineering	48	INTERMEDIATE	English	60	42

UG	BTech, Mining Engineering	48	INTERMEDIATE	English	60	8
PG	Mtech, Computer Science And Engineering	24	B.TECH or BE	English	18	6
PG	Mtech, Mechanical Engineering	24	B.TECH or BE	English	18	11
PG	Mtech, Electrical And Electronics Engineering	24	B.TECH or BE	English	18	12
PG	Mtech, Electronics And Communication Engineering	24	B.TECH or BE	English	24	10
PG	Mtech, Civil Engineering	24	B.TECH or BE	English	18	15
PG	MBA, Master Of Business Administration	24	B.TECH or BE or BSC or BCOM	English	60	49

#### Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	22				45				132			
Recruited	16	6	0	22	37	8	0	45	85	47	0	132
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				103
Recruited	90	13	0	103
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				53
Recruited	47	6	0	53
Yet to Recruit				0

### Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	15	6	0	9	0	0	0	0	0	30
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	1	0	0	28	8	0	85	47	0	169



Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	Male	Female	Others	Total
	10	1	0	11

**Provide the Following Details of Students Enrolled in the College During the Current Academic Year**

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
PG	Male	54	0	0	0	54
	Female	49	0	0	0	49
	Others	0	0	0	0	0
UG	Male	345	0	0	0	345
	Female	104	0	0	0	104
	Others	0	0	0	0	0

**Provide the Following Details of Students admitted to the College During the last four Academic Years**

Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	53	71	71	13
	Female	24	25	19	9
	Others	0	0	0	0
ST	Male	43	39	34	9
	Female	10	11	7	4
	Others	0	0	0	0
OBC	Male	189	201	187	112
	Female	69	57	64	52
	Others	0	0	0	0
General	Male	161	221	153	141
	Female	45	87	71	82
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		594	712	606	422

## 2.3 EVALUATIVE REPORT OF THE DEPARTMENTS

Department Name	Upload Report
Civil Engineering	<a href="#">View Document</a>
Computer Science And Engineering	<a href="#">View Document</a>
Electrical And Electronics Engineering	<a href="#">View Document</a>
Electronics And Communication Engineering	<a href="#">View Document</a>
Electronics And Computer Engineering	<a href="#">View Document</a>
Information Technology	<a href="#">View Document</a>
Master Of Business Administration	<a href="#">View Document</a>
Mechanical Engineering	<a href="#">View Document</a>
Mining Engineering	<a href="#">View Document</a>

## Extended Profile

### 1 Program

#### 1.1

**Number of programs offered year-wise for last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
13	13	12	8	15
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

#### 1.2

**Number of departments offering academic programmes**

**Response: 9**

### 2 Students

#### 2.1

**Number of students year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
2399	2418	2406	2645	3029
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

#### 2.2

**Number of outgoing / final year students year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
449	700	734	834	857
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

**2.3**

**Number of students appeared in the examination conducted by the Institution, year-wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
2294	2271	2229	2488	2742
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

**2.4**

**Number of revaluation applications year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
125	116	177	81	136

**3 Teachers****3.1**

**Number of courses in all programs year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
491	496	490	527	568
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

**3.2**

**Number of full time teachers year-wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
195	196	242	232	246
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

**3.3**

**Number of sanctioned posts year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
195	196	242	232	246
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

**4 Institution****4.1****Number of eligible applications received for admissions to all the programs year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
6136	5732	6209	4349	8578
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

**4.2****Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
473	473	460	300	513
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

**4.3****Total number of classrooms and seminar halls****Response: 64****4.4****Total number of computers in the campus for academic purpose****Response: 1118**

**4.5****Total Expenditure excluding salary year-wise during last five years ( INR in Lakhs)**

2019-20	2018-19	2017-18	2016-17	2015-16
1316.25	976.66	706.61	785.97	610.20

NAAC

## 4. Quality Indicator Framework(QIF)

### Criterion 1 - Curricular Aspects

#### 1.1 Curriculum Design and Development

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

**Response:**

J.B. Institute of Engineering and Technology (JBIET) has been striving to enable students to acquire the required professional, entrepreneurial and life skills. The primary objective of the institute is to educate the students technically competent, globally sophisticated, culturally aware, and develop entrepreneurial outlook to fulfil the global needs. UG program in Mining Engineering was also introduced based on the local needs.

**Curriculum Design Strategy:**

The Institution designs curriculum based on the deliverables, domain knowledge, skills and attitude. The courses and their content are in line with the American Professional Societies and the Industry requirements. To meet the local and global needs, curriculum is designed considering the following factors:

(i) Model curriculum prescribed by AICTE, (ii) Curriculum of eminent Institutions (iii) The Program Specific Criteria of professional bodies, (iv) Suggestions by industry experts and alumni, (v) Syllabus for various competitive exams like GATE, IES, etc, (vi) Syllabus of various reputed Indian and International Universities, (vii) Recent technological developments in the domain and (viii) Gaps identified in previous syllabi during its delivery due to introduction of new technologies in Industry.

**Outcome Based Education (OBE) based Curriculum:**

It is ensured in the design of curriculum that the CO-PO mapping of the various core-courses of the curriculum is such that every PO is addressed by at least a few courses. Hence, Curriculum, various courses of the curriculum, COs of the various courses, the assessment tools to measure the COs and the strength of the CO-PO/PSO mapping constitute an effective curriculum design. An effective implementation of this Outcomes Based Education (OBE), ensured that the graduating students have attained all the 12 POs defined by NBA, and hence, it can compete on a global platform, and have achieved expected global attributes.

**Curriculum Development – A Continuous Process:**

The initial version of the curriculum is prepared by having the above design criteria, through discussions with stakeholders and keeping already identified curriculum gaps from previous regulations. Need assessment analysis of stakeholders and relevant curriculum were thoroughly analysed. The curriculum is then placed for discussion/approval at the department level body: a BOS (Board of Studies) constituted as per prevailing norms with local industry experts, academic experts in addition to faculty as members. The



curriculum (suitably revised based on suggestions by BOS) is then placed for approval during the Academic Council (AC). Curriculum is finally evolved after incorporating suggestions by AC, if any. The inputs and feedbacks received from Experts from local Industry members, BOS members, Internal Faculty members, Employers, Students, Alumni and parents play a vital role in revision of vision and mission of the departments, Program objectives, programme outcomes, Programme specific outcomes, regulations, curricula, and course content. In the last five years, the syllabus of UG programs was revised in 2016, 2018 and 2020, and of PG programs were revised in 2015, 2018 and 2020.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 1.1.2 Percentage of Programmes where syllabus revision was carried out during the last five years.

**Response:** 100

#### 1.1.2.1 Number of all Programmes offered by the institution during the last five years.

**Response:** 14

#### 1.1.2.2 How many Programmes were revised out of total number of Programmes offered during the last five years

**Response:** 14

File Description	Document
Minutes of relevant Academic Council/BOS meeting	<a href="#">View Document</a>
Details of program syllabus revision in last 5 years(Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 1.1.3 Average percentage of courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the last five years

**Response:** 100

#### 1.1.3.1 Number of courses having focus on employability/ entrepreneurship/ skill development year-wise during the last five years..

2019-20	2018-19	2017-18	2016-17	2015-16
491	496	490	527	568

File Description	Document
Programme / Curriculum/ Syllabus of the courses	<a href="#">View Document</a>
MoU's with relevant organizations for these courses, if any	<a href="#">View Document</a>
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	<a href="#">View Document</a>
Average percentage of courses having focus on employability/ entrepreneurship(Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

## 1.2 Academic Flexibility

### 1.2.1 Percentage of new courses introduced of the total number of courses across all programs offered during the last five years.

**Response:** 39.5

1.2.1.1 How many new courses are introduced within the last five years

Response: 316

1.2.1.2 Number of courses offered by the institution across all programmes during the last five years.

Response: 800

File Description	Document
Minutes of relevant Academic Council/BOS meetings	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 1.2.2 Percentage of Programmes in which Choice Based Credit System (CBCS) / elective course system has been implemented (Data for the latest completed academic year).

**Response:** 100

#### 1.2.2.1 Number of Programmes in which CBCS / Elective course system implemented.

Response: 13

File Description	Document
Minutes of relevant Academic Council/BOS meetings	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 1.3 Curriculum Enrichment

#### 1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics ,Gender, Human Values ,Environment and Sustainability into the Curriculum

**Response:**

The Institution has been taking every step in integrating various cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum for holistic development of the students. Integration of various areas to the curriculum is explained below.

##### **Gender sensitization:**

Being offered every year, the course Gender Sensitization is introduced with an objective to offer guidance to the peer group in integrating/main streaming gender in all activities of the institution in the form of both co-curricular and extra-curricular activities.

Key objectives of this course includes:

- To understand social and cultural construction of gender that shapes the experiences of women and men in the society.
- To create the awareness regarding equality in law, social system and democratic activities.
- To make students aware that equal personal freedom for women and men exists and, protest against all forms of aggression against women.

In addition, the Institution has active women empowerment cell to address women related issues by way of conducting several programs. Women cell of the institution specifically looks into the awareness and redress of gender sensitive issues, if any. The women cell organizes programs on women empowerment regularly. The issues pertaining to gender such as respect, equality, and empowerment are addressed by periodically conducting various activities through technical associations of the Institution.

**Environment and Sustainability:**

The course Environmental Science is being offered every year at the Institution. This is introduced with an objective to understand the importance of ecological balance for sustainable development.

In addition, a course on Disaster Management is also being offered every semester with an objective of bringing awareness and explain different aspects of emergencies and disaster events. Courses such as Environmental Impact Assessment and Environmental Engineering also help reinforce the students with importance of environment and its sustainability. Furthermore, Institution also conducts debates and group discussion on various topics related to environment and sustainability to make students understand importance of these areas. Students are sensitized about environment and sustainability issues by organizing Seminars, Field Visits, Environmental Day, World Water Day, and Earth Day every year.

**Human Values and Professional Ethics:**

A course on Human values and professional ethics is being offered by the institution every semester with a purpose of creating awareness about moral values, character, policies and sustainable relationship among people and cooperation involved in technological activity. Professional ethics among the students and faculty is also inculcated through the use of software tools to check plagiarism online. In addition, the institution has a well-defined policy on professional ethics. Students organize awareness campaigns, health check-up camps, blood donation camps and, hygiene and health awareness programs, gender issues, activities related to swachhBharat regularly through NSS.

File Description	Document
Upload the list and description of the courses which address the Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

**1.3.2 Number of value-added courses for imparting transferable and life skills offered during last five years.**

**Response:** 74

**1.3.2.1 How many new value-added courses are added within the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
13	17	13	15	16

File Description	Document
List of value added courses (Data Template)	<a href="#">View Document</a>
Brochure or any other document relating to value added courses	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

**1.3.3 Average Percentage of students enrolled in the courses under 1.3.2 above.****Response:** 51.56**1.3.3.1 Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
1318	1459	1376	1282	1117

File Description	Document
List of students enrolled	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

**1.3.4 Percentage of students undertaking field projects/ internships / student projects (Data for the latest completed academic year)****Response:** 44.02**1.3.4.1 Number of students undertaking field projects / internships / student projects****Response:** 1056

File Description	Document
List of programs and number of students undertaking field projects / internships / student projects (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

## 1.4 Feedback System

**1.4.1 Structured feedback for design and review of syllabus – semester-wise / year-wise is received from 1) Students, 2) Teachers, 3) Employers, 4) Alumni**

**Response:** A. All 4 of the above

File Description	Document
Any additional information	<a href="#">View Document</a>
Action taken report of the Institution on feedback report as minuted by the Governing Council, Syndicate, Board of Management	<a href="#">View Document</a>
URL for stakeholder feedback report	<a href="#">View Document</a>

**1.4.2 The feedback system of the Institution comprises of the following :**

**Response:** A. Feedback collected, analysed and action taken and report made available on website

File Description	Document
Any additional information	<a href="#">View Document</a>
URL for stakeholder feedback report	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

## Criterion 2 - Teaching-learning and Evaluation

### 2.1 Student Enrollment and Profile

#### 2.1.1 Average Enrolment percentage (Average of last five years)

**Response:** 70.57

##### 2.1.1.1 Number of students admitted year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
594	712	606	422	700

##### 2.1.1.2 Number of sanctioned seats year wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
918	918	894	582	996

File Description	Document
Institutional data in prescribed format (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

#### 2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy ) during the last five years ( exclusive of supernumerary seats)

**Response:** 80.24

##### 2.1.2.1 Number of actual students admitted from the reserved categories year wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
388	404	382	199	433



File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

## 2.2 Catering to Student Diversity

### 2.2.1 The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

#### Response:

After the student joining a programme, the institution identifies the learning levels of the students throughout the duration of the program and take necessary steps at all the stages. Learning levels of the students are identified through the following means.

- **Initial Assessment:** The initial assessment is conducted in subjects such as Mathematics, English, Physics and Chemistry to assess the student's individual strengths, weaknesses, knowledge level, and analytical abilities prior to instruction. It forms a basis to strategize student specific plan for their overall development.
- **Continuous assessment (internal assessment) and semester end examinations:** They provide the means to assess the learning levels of the students in all courses and slow/fast learners are identified accordingly to take up further measures.

#### Slow Learners:

The identified slow learners in the initial assessment will be considered for bridge classes. Students who got less than 50% marks in continuous assessments and have one or more backlogs in semester end examinations are considered as Slow Learners. In order to support and motivate the slow learners, the following measures are taken.

- **Bridge Classes** are the preparatory classes conducted to fill the gap between the knowledge they possess and the current requirement for the course.
- **Remedial Classes** are conducted for slow learners as additional classes in the required courses to reach the expected leaning level.

**Counselling Sessions** are conducted regularly by allotting an hour in the time table allotting 15-20 students to a faculty member. Faculty maintains individual mentor diaries for each student to record the regularity, student academics, extra and co-curricular activities. Apart from counselling, expert lectures in personality development are conducted regularly to counsel the students on placements, higher studies and stress management. Furthermore, in case of first year students, special classes in courses like English, Mathematics, and Computer programing are conducted to facilitate easy learning.

#### Advanced Learners:



Those who got CGPA more than 7.5 are considered as Fast Learners. The following programmes are taken up to prepare for their readiness to the higher levels of learning in the respective discipline of study.

- *Choice Based Credit System (CBCS)* offers spectrum of challenging courses for the advanced learners to choose from.
- Encouraged to spend their eighth semester for doing full time internships/project works in industries outside the institute.
- Motivated to concentrate fully on job oriented trainings to get better placements.
- Encouraged mould their ideas into design and development of innovative models.
- Guided to participate in various conferences/seminars, quiz competitions, paper or poster presentations.
- Suggested to enrol in online certificate NPTEL/Coursera courses to strengthen their knowledge levels.
- Motivated prepare for competitive examinations (GATE, GRE TOEFL, IELTS) for higher studies.

*Self-Learning Courses/MOOCs* are introduced in curriculum to facilitate the slow/advanced learners to learn selected courses of various disciplines to acquire knowledge in the emerging technologies.

Additionally, advanced learners are encouraged to become members of professional bodies to appear for competitive exams, to participate, organize inter collegiate technical symposiums.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 2.2.2 Student - Full time teacher ratio (Data for the latest completed academic year)

**Response:** 12:1

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

## 2.3 Teaching- Learning Process

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

**Response:**

**EXPERIENTIAL LEARNING:**

The laboratories associated with the theory course are designed in a such a way that students experience practical implications of the theoretical concepts studied.

**ICT in Teaching Learning:** To create more 'learner-centric' learning environment the Institution has provided different ICT Tools/Resources.

**Internships:** The institute facilitates student internships and industry related projects for hands-on experience through MOUs with premier institutions and industries.

**Industry Driven National/Global Student Competitions:** The institute encourages and prepares the students for competitions conducted by IIT/NIT/IIIT/AICTE institutes at national/global level.

**Field Visits:** The Institute gives top priority for technical visits at industries as a value-added learning method for students in every year of the Program to have real time feel of the engineering practices.

**Google Classrooms:** The Institution has been using google classrooms to cover various learning levels such as asynchronous discussions, group tasks, home assignments, video lectures, demos, PPT illustrations, case studies etc.

**PARTICIPATIVE LEARNING:**

Courses like laboratories, seminars and projects at the UG level as a group work is designed to foster student peer and participative learning.

**Seminars/Workshops:** Students are trained on regular basis in modern trends and innovative technologies by organizing workshops/seminars inviting experts from industry.

**Group Assignments/Mock Interviews:** Group discussions/tasks are conducted from second year onwards in soft skills courses. Mock interviews are conducted before the campus placements, to improve confidence levels in the student.

**Case studies:** Faculty discuss case studies relevant to particular topic while covering the syllabus. In addition, case studies are also covered during relevant seminars and workshops.

**Model Development:** Students are guided to prepare models demonstrating various engineering concepts.

**Students Activity Centre:** Students also participate in various clubs like Orator's Club, Bhaskar Memorial Club etc. which enhance the students' all round development.

### ***PROBLEM SOLVING LEARNING:***

National Board of Accreditation graduate attributes while designing the courses, which emphasizes problem solving ability as an important attribute to the students. Course content is designed to develop problem solving skills among the students.

**Open-ended problems in Laboratories:** In addition to the regular laboratory experiments, the goal of the student in labs is also targeted to develop hands-on and feasible solutions for open ended problems given in the laboratories using current technologies.

**Tutorials:** Intended to have individual attention to develop better problem solving skills.

**Developing innovative models:** Take up some real-world problems for developing new products/models with novelty in perspective of meeting challenges in industry, government and academia.

**Minor and Major projects:** Work done in the earlier semester through field visits and information gathered through literature are used to execute various minor and major projects.

**Individual or small group based assignments:** tasks on case study problems, current technologies and industry need based problems are assigned for individual students and group of students to address and develop feasible solutions.

**Hands-on training programs:** in every semester, training activities covering advanced courses, industry/latest trends are held for students to explore and practice on current technologies.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

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

#### Response:

JBIET has been using various ICT enabled tools, including online resources, to impart quality education to the students through effective teaching and learning process. Various ICT enabled tools, including online resources, are being used by the institution. The impact of various tools on teaching learning process is explained below.

- **LCD Projectors in the classrooms and seminar halls:** In the Institute, 100% classrooms and seminar halls equipped with ICT enabled tools. LCD projectors are used to enrich the learning experience of the students through PPTs, demonstrations and other online teaching materials.
- **Wi-Fi and LAN Facilities:** Apart from being a Wi-Fi enabled campus, the Institution has LAN facilities in classrooms and seminar halls. These resources help teachers to have access to various teaching learning resources. In addition, students have ready access to class notes and other learning materials.
- **Smart Classroom:** The Institution has well equipped smart classrooms to make students experience the learning.
- **Use of Google classroom:** Faculty members are encouraged to use google classroom for sharing class notes, recorded videos of online classes, assignments and knowledge through discussions.
- **NPTEL Lectures:** Institution has NPTEL videos in the local database. Therefore, students and faculty can access them without internet connection as often as and as many times as possible.
- **Licensed version of Zoom tool:** The Institution has purchased licensed version of zoom to conduct seamless online classes.
- **Microsoft Team:** The Institution uses the licensed version of MS 365 for academic purpose. Microsoft Teams has been extensively used for online teaching and sharing the various learning materials with the learners.
- **Simulation Software:** Institution uses simulation software to explain difficult concepts, which are hard to visualize.
- Faculty also uploads PPTs, assignments, lecture notes under the relevant materials on the web portal.
- The institution has subscribed to various online resources like IEEE, Digital Library, and Delnet.

File Description	Document
Any additional information	<a href="#">View Document</a>
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year )

**Response:** 18:1

#### 2.3.3.1 Number of mentors

Response: 135

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll	<a href="#">View Document</a>
Circulars pertaining to assigning mentors to mentees	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

### 2.3.4 Preparation and adherence of Academic Calendar and Teaching plans by the institution

**Response:**

#### Preparation of Academic Calendars:

Programme-wise Academic Calendars are prepared well in advance specifically earmarking the semester-wise schedules. The calendars are prepared keeping the minimum number of working days duly taking the National & Public holidays, Festival breaks, Summer vacation, in addition to the College Fests, Training Programmes, Placement Activities etc. in to consideration. Suggestions are also taken from respective BOS about the draft academic calendars. Suggestions, if any received from BOS, are incorporated and revised academic calendar is prepared. The academic calendars are approved in the Academic Council. The calendars are communicated through the webmail to all the relevant functionaries for adherence.

Academic calendar helps to coordinate the academic activities throughout the year. Academic calendars, activity schedule and course lesson plans are prepared well before commencement of the academic year. In addition, faculty keeps the course file for each of the courses ready before commencement of the course.

#### Preparation of Teaching plan:

Teaching plans are prepared by the individual faculty for the theory, and laboratory subjects allotted by the concerned HODs. Respective Members of faculty prepare lesson plans as a part of the course files keeping the following points in view:

Syllabus content to be delivered

Time allotment

Teaching methodologies

Assessment tools

Contemporary developments

Cognitive levels of learning

Class teaching materials

Self-learning topics and assignments

#### **Review and Monitoring of Academic Calendar:**

Course coordinators undertake an intense review of academic calendar from time to time. Head of the Department and Principal also periodically review the various activities and check if they are in line with the approved Academic Calendar. In the process, the faculty mentors inform parents about the performance of students in mid-term examinations and attendance through mail. Additionally, parents meet is also conducted once in every semester by the departments.

Important components and activities mentioned in the Academic Calendar are listed below

S. No.	Schedule	Activity
1	Academic schedule	Class work, Laboratory & Project Technical visits, other additional academic input sessions including faculty, Remedial, Bridge sessions.
2	Formative and Summative assessment schedules	Continuous and Semester-end Examinations, laboratory project viva-voce
3	Training and Placement schedules	Skill & Personality development sessions Training

#### **Adherence to Academic Calendar:**

The institute strictly Adheres to the academic calendar, except at unforeseen circumstances. Chairman of the Academic Council makes the decision if any changes are required to the approved Academic Calendar based on the prevailing conditions.

File Description	Document
Upload Academic Calendar and Teaching plans for five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

## 2.4 Teacher Profile and Quality

### 2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

**Response:** 100

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years(Data Template)	<a href="#">View Document</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

**Response:** 12.02

#### 2.4.2.1 Number of full time teachers with *Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D’Lit.* year wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
33	29	25	23	20

File Description	Document
Institutional data in prescribed format (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

**2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)****Response:** 5.32**2.4.3.1 Total experience of full-time teachers****Response:** 1037

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

**2.5 Evaluation Process and Reforms****2.5.1 Average number of days from the date of last semester-end/ year- end examination till the declaration of results year-wise during the last five years****Response:** 15.41**2.5.1.1 Number of days from the date of last semester-end/ year- end examination till the declaration of results year wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
15.25	15.83	16.04	15.56	14.35

File Description	Document
Institutional data in prescribed format (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

**2.5.2 Average percentage of student complaints/grievances about evaluation against total number appeared in the examinations during the last five years****Response:** 5.34**2.5.2.1 Number of complaints/grievances about evaluation year wise during the last five years**



2019-20	2018-19	2017-18	2016-17	2015-16
125	116	177	81	136

File Description	Document
Number of complaints and total number of students appeared year wise	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

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

#### Response:

The examination process has been given an overhaul with IT integration. This has not only speeded up the functioning mechanism, while making the whole process more transparent and error free. Starting from Pre-Examination processes such as from publicising the examination schedules in the collegewebsite, online examination fee payment by the Students using Examination Portal payment gateway, preparing of eligible registered candidates database, preparation of bar-coded OMR answer booklets printed with students details and photograph, preparation of nominal rolls, hall ticket generation etc, to post-examination processes like scanning, result processing, generation of grade cards, Marks memos and Provisional certificates the Institute has involved IT integration.

Examination division at JBIET is fully automated and examination management system has been implemented.

#### Process of integrating IT:

iCampus Examination Automation System services integrates all the activities in the examination branch. Both PreExamination and PostExamination activities are integrated into the system. iCampus is linked to Student Examination Portal (<http://exams.jbiet.edu.in>) a web portal that provides Payment gateway for the payment of examination fees. Using this portal students can register for all the examinations online. Student Examination Portal offers other services to students such as downloading of hall tickets, accessing the results online etc. Automation of the examination process helped in quick, accurate execution of various pre post examination activities of the Examination. Processes like Coding and decoding of examination scripts, scanning of OMR marks sheets, processing of results, generating various results reports are part of iCampus.

Various examination reforms during last five years are mentioned below.

S. No.	Reform	Improvement in Examination Management System	
1	Three sets of question papers are collected for Mid examination.	More questions from each unit of the subject	
2	Online Examination Fee payment	Students and parents can pay fee after college hours and o	
3	OMR based Answer booklet with Student details and photograph printed	Better Identification of candidates and more confidentiality	
4	CCTV Surveillance	Continuous monitoring of Examination Section	
5	OBE Question Paper	Covers all course outcomes and the required competencies	
6	Declaration of Results	Timely announcement of Results - displayed website and registered students.	
7	Periodic Audit of question papers and answer scripts	Periodic auditing Question papers to ensure better quality	
8	Adoption of Spot Valuation practice	Reduces the time for evaluation of Answer	
9	Inclusion of Security features on 'Statement of grades'	To ensure authenticity	
10	ICampus, Student Examination Portal, Mid Marks portal.	Enables Online Fee Payment, hall ticket downloading performance checking.	
11	Anti-Plagiarism check	All the M Tech Theses are subjected to ensure originality	

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

## 2.6 Student Performance and Learning Outcomes

**2.6.1 Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.**

### Response:

The institution has well defined Course Outcomes (COs) and Program Specific Outcomes (PSOs) apart from Program Outcomes (POs) defined by NBA.

### Course Outcomes for all Programs:

COs are defined for all the courses in the syllabus books and they are widely disseminated. COs of selected courses of all the programs are also attached.

**Display on Website:**

The POs, PSOs and COs statements of all the programs are posted on the institute's website under the respective departments. For instance, the POs/PSOs for B. Tech – Computer Science and Engineering are made available at the following location on institution's website.

<https://www.jbiet.edu.in/pagecontents.php?mnlnks=&catid=&catid=2&catid=2&prodid=270>

**Display in Prominent places:**

The statements are displayed in Principal office, HODs office, Notice boards, Common facilities, and all other important points.

**Communication to the teachers:**

The Institution has a multi-layered, multi-point and multi-faceted process related to communicating the POs, PSOs and COs to the teachers and students.

POs/PSOs and COs are developed in each programme of courses involving all the faculty of the program and are reviewed in the BOS meeting after thorough discussion.

After approval from the respective BOS, these are approved by the Academic council of the Institution.

Further to approval from Academic Council, all POs/PSOs and COs are communicated back to faculty.

Approved POs/PSOs and COs are made a part of syllabus books and they are distributed to the faculty.

**Communication to the Students:**

COs, POs/PSOs are communicated to the students through the following means.

**First year Induction Programme:** Dedicated lecture-demos are organized as a part of the Induction Programme in which POs/PSOs are presented and explained to the students.

**Introduction of Course Outcomes:** Respective COs are presented at the beginning of each course all through the programme

**Note of Outcomes in the Curriculum Books:** COs and CO-PO mapping is given for each course in the syllabus books.

**Display of Outcomes in the Department Corridors:** Multi-coloured Foam boards depicting the POs are placed for wider awareness among students regarding the matter.

**Question papers of Continuous Assessment:** The questions of continuous assessment exams are set reflecting the COs of the particular course along with cognitive levels of learning.

**Trainings and Workshops on OBE:** The Institution has been conducting training programs and workshops on OBE to the students, faculty and Non-teaching staff to inculcate the spirit of OBE and

disseminate the relevant information.

File Description	Document
Upload COs for all courses (exemplars from Glossary)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution.

#### Response:

Initially attainments of Course Outcomes (COs) are computed using both direct and indirect methods. Attainments of Program Outcomes (POs) and Program Specific Outcomes (PSOs) are done from the attainment of COs through course and program articulation matrices. The level of attainment of POs, PSOs and COs are done through faculty course assessment report with thoroughly designed evaluation rubrics. This will help indicating the learning outcomes of the students, employability levels and further progression.

**Attainment Procedure of COs:** It is done using direct method and in-direct method. As a part of the direct method, CO attainment is computed using marks obtained by the students in Continuous Internal Examinations (CIE) and Semester End Examinations (SEE). Weightages of 30% and 70% are assigned to CIE and SEE respectively to compute direct CO attainment. Course end survey is conducted for each course and indirect attainment of COs is computed. Now 80% and 20% weightages are assigned to direct and indirect CO attainment to calculate total attainment of COs for each course.

**Attainment Procedure of POs/PSOs:** Attainment of POs/PSOs is done from the attainment of COs. From the attainment of CO and course articulation matrix, direct PO/PSO attainment is done for each course. By using program articulation matrix and PO/PSO attainment of each course, direct PO/PSO attainment for the program is calculated. Indirect attainment of POs/PSOs is done using Program exit survey, Employer survey and Alumni survey. Final attainment of PO/PSO is done by assigning weightages of 80% and 20% to direct and indirect attainments respectively.

Process flow diagram of computing CO and PO/PSO attainment and sample final attainment of COs and POs/PSOs are attached.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 2.6.3 Pass Percentage of students(Data for the latest completed academic year)

**Response:** 77.03

#### 2.6.3.1 Total number of final year students who passed the examination conducted by Institution.

Response: 342

#### 2.6.3.2 Total number of final year students who appeared for the examination conducted by the Institution.

Response: 444

File Description	Document
Upload List of Programmes and number of students passed and appeared in the final year examination(Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for the annual report	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

## 2.7 Student Satisfaction Survey

### 2.7.1 Online student satisfaction survey regarding teaching learning process

**Response:**

File Description	Document
Upload database of all currently enrolled students	<a href="#">View Document</a>

## Criterion 3 - Research, Innovations and Extension

### 3.1 Promotion of Research and Facilities

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

**Response:**

JBIET has been allocating budget every year for augmenting and maintaining research facilities. Project labs, Advanced Research Labs were established as a part of strengthening the research facilities at the Institution. Following are the Centres of Excellence established at the Institution to promote research and development at the Institution.

S. No	Name of the Advanced Research Lab	Dept.
1	Center of Excellence in Machine Learning.	CSE
2	Center of Excellence in Software Engineering Practices.	IT
3	Center of Excellence in VLSI.	ECE
4	Center of Excellence in Alternative Energy Sources.	EEE
5	Center of Excellence in Non-Destructive Testing.	CE
6	Center of Excellence in 3-D Printing.	ME

Faculty are encouraged to apply for various central funding agencies. In addition, Institute provides seed funding based on the merit of the proposals submitted by the faculty.

The college encourages faculty by providing incentives for peer reviewed publications, writing books, and patents.

Advanced research centres are established in various departments of the Institute with necessary software and computing facilities for carrying out research activities.

The Institution has a well-defined R&D policy for promoting research and development at the Institution. Updated R&D policy is also uploaded.

The Implementation of the R&D policy has yielded very good results. Many young faculty members could get Patents, publish papers in renowned peer-reviewed journals, publish books and book chapters and participate in seminars, workshops, FDPs etc.

File Description	Document
Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
URL of Policy document on promotion of research uploaded on website	<a href="#">View Document</a>

### 3.1.2 The institution provides seed money to its teachers for research (average per year, INR in Lakhs)

**Response:** 1.95

#### 3.1.2.1 The amount of seed money provided by institution to its faculty year-wise during the last five years (INR in lakhs).

2019-20	2018-19	2017-18	2016-17	2015-16
2.10	1.97	1.95	1.89	1.84

File Description	Document
Minutes of the relevant bodies of the Institution	<a href="#">View Document</a>
List of teachers receiving grant and details of grant received	<a href="#">View Document</a>
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.1.3 Percentage of teachers awarded national / international fellowship for advanced studies/research during the last five years

**Response:** 0.45

#### 3.1.3.1 The number of teachers awarded national / international fellowship for advanced studies / research year wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
4	1	0	0	0

File Description	Document
List of teachers and their international fellowship details	<a href="#">View Document</a>
e-copies of the award letters of the teachers	<a href="#">View Document</a>

### 3.2 Resource Mobilization for Research

#### 3.2.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)

**Response:** 14.8

##### 3.2.1.1 Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
8.94	5.86	0	0	0

File Description	Document
List of project and grant details	<a href="#">View Document</a>
e-copies of the grant award letters for research projects sponsored by government and non-government	<a href="#">View Document</a>

#### 3.2.2 Percentage of teachers having research projects during the last five years

**Response:** 0.36

##### 3.2.2.1 Number of teachers having research projects during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
2	2	0	0	0



File Description	Document
Names of teachers having research projects	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.2.3 Percentage of teachers recognised as research guides

**Response:** 5.13

#### 3.2.3.1 Number of teachers recognized as research guides

Response: 10

File Description	Document
Upload copies of the letter of the university recognizing faculty as research guides	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.2.4 Average percentage of departments having Research projects funded by government and non-government agencies during the last five years

**Response:** 6.67

#### 3.2.4.1 Number of departments having Research projects funded by government and non-government agencies during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
2	1	0	0	0

#### 3.2.4.2 Number of departments offering academic programmes

2019-20	2018-19	2017-18	2016-17	2015-16
9	9	9	6	10

File Description	Document
Supporting document from Funding Agency	<a href="#">View Document</a>
List of research projects and funding details	<a href="#">View Document</a>

### 3.3 Innovation Ecosystem

**3.3.1 Institution has created an eco system for innovations, creation and transfer of knowledge supported by dedicated centers for research, entrepreneurship, community orientation, Incubation etc.**

**Response:**

**Research:**

JB IET has the following ecosystem for facilities to promote research:

- 1. Project Rooms:** Each department of the Institution is equipped with a dedicated project room to carry out and display the projects executed by the students as a part of curricular or co-curricular activities. A faculty in-charge is also assigned to coordinate and promote research culture among the students.
- 2. Advanced Research Labs:** The Institution established advanced research labs in each of the technical departments. These labs are provided with the latest equipment to advance the research in a specific domain and contribute to consultancy activities of the Institution as well.
- 3. Multi-disciplinary Projects:** JB IET has been actively carrying out interdisciplinary projects as a medical college is located very near to the campus.

**Entrepreneurship:**

JB IET promotes entrepreneurship among students has a set up a committee under the industry Institute interaction cell to foster incubation activities of the students. Furthermore, JB IET has been receiving support from JB Institute of Inventors Association of India in encouraging budding entrepreneurs. The activities pertained to entrepreneurship are

- 1. Market study and entrepreneur's requirements:** The III cell has set up a committee with experts from all departments to study the prospective areas of innovation, perform need analysis, and suggest platform for students and faculty for incubation.
- 2. Entrepreneurship:** Awareness workshops on entrepreneurship, orientation and entrepreneurial skills development programs, expert interactions and alumni interactions are arranged.
- 3. Identifying service providers:** A list of entrepreneurs, investors, mentors, trainers, students and faculty is prepared.
- 4. Resource Allocation:** The EDC cell is fully equipped with facilities such as Internet, Telephone and IT infra and support – Software, LAN, Wi-Fi facility, Printer, Scanner, Copier.

**Incubation Centre:**

The institution has a well-organized incubation centre to promote innovations and provide hand holding to budding entrepreneurs. The Institution currently hosts 4 alumni start-ups and the details are given below.

S. No.	Founder Alumni	Project Title/Name of the Start-up		A
1	Mr. PVR Vagesh Datt	Kay9 Interiodomestic Corporate Interiors. Hyderabad	Interior Des	

2	Mr. R. Vedanth	Sri Maauli Constructions And Developers, Adilabad	Building
3	Mr. Padiyar Narpathlal	Devi Enterprises, Hyderabad	Text
4	Mr. P. Ajaykumar	Lasya Garments, Karimnagar	Garn
5	Mr. S. Abhishek	Homecaptures, Hyderabad	Inter
6	Ms. Mounika Chowdari Sindhur	Helapuri Digital Vision Private Limited	Digital ma maintenance a presentatio
7	Mr. A. Shankar Goud	A B Electrical Contractors	Event

**Community Orientation:**

Students are provided with community orientation through NSS activities at the Institution. NSS conducts various activities like tree plantation, blood donation camps, bringing awareness about cleanliness and hygiene etc. All innovative and extension activities are student centric.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

**3.3.2 Number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development during the last five years.****Response: 226****3.3.2.1 Total number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development year-wise during the last five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
51	49	42	43	41

File Description	Document
Report of the event	<a href="#">View Document</a>
List of workshops/seminars during last 5 years	<a href="#">View Document</a>

### 3.4 Research Publications and Awards

**3.4.1 The Institution ensures implementation of its stated Code of Ethics for research through the following: 1. Inclusion of research ethics in the research methodology course work 2. Presence of Ethics committee 3. Plagiarism check through software 4. Research Advisory Committee**

**Response:** A. All of the above

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

**3.4.2 Number of Ph.D's registered per teacher (as per the data given w.r.t recognized Ph.D guides/supervisors provided at 3.2.3 metric) during the last five years**

**Response:** 4.2

3.4.2.1 How many Ph.Ds are registered within last 5 years

Response: 42

3.4.2.2 Number of teachers recognized as guides during the last five years

Response: 10

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	<a href="#">View Document</a>
URL to the research page on HEI web site	<a href="#">View Document</a>

**3.4.3 Number of research papers per teachers in the Journals notified on UGC website during the last five years**

**Response:** 1.44

3.4.3.1 Number of research papers in the Journals notified on UGC website during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
118	72	53	41	37

File Description	Document
List of research papers by title, author, department, name and year of publication	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 3.4.4 Number of books and chapters in edited volumes / books published per teacher during the last five years

Response: 0.17

##### 3.4.4.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
13	7	8	6	4

File Description	Document
List books and chapters in edited volumes / books published	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 3.4.5 Bibliometrics of the publications during the last five years based on average citation index in Scopus/ Web of Science or PubMed

Response:

File Description	Document
Bibliometrics of the publications during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 3.4.6 Bibliometrics of the publications during the last five years based on Scopus/ Web of Science - h-index of the Institution

Response:

File Description	Document
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.5 Consultancy

#### 3.5.1 Revenue generated from consultancy and corporate training during the last five years (INR in Lakhs).

**Response:** 26.61

##### 3.5.1.1 Total amount generated from consultancy and corporate training year-wise during the last five years (INR in lakhs).

2019-20	2018-19	2017-18	2016-17	2015-16
11.88	12.7	2.03	0	0

File Description	Document
List of consultants and revenue generated by them	<a href="#">View Document</a>
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 3.5.2 Total amount spent on developing facilities, training teachers and staff for undertaking consultancy during the last five years (INR in Lakhs).

**Response:** 47.47

##### 3.5.2.1 Total amount spent on developing facilities, training teachers and staff for undertaking consultancy during the last five years (INR in Lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
30.28	0.13	0	12.22	4.84

File Description	Document
List of training programmes, teachers and staff trained for undertaking consultancy	<a href="#">View Document</a>
List of facilities and staff available for undertaking consultancy	<a href="#">View Document</a>
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.6 Extension Activities

#### 3.6.1 Extension activities are carried out in the neighbourhood community, sensitising students to social issues, for their holistic development, and impact thereof during the last five years

##### Response:

The institution provides different service opportunities for students to address societal needs by collaborating with the people from nearby villages. Participating in community service activities empowers the students' holistic development, knowledge about civic and social needs and become mindful about community needs. In this context, the institution has taken up the several activities as follows.

The institution has adopted nearby villages for implementation of various welfare activities such as health and hygiene awareness, drinking water facilities, motivation towards community learning and education development. The institution conducted seminars and face-to-face interaction for members of the villages on various topics such as child labour, gender sensitization, clean and safe energy, women safety, superstitions, and environmental protection. These programs are carried out with assistance from faculty members, students in collaboration with NGO representatives.

The students and faculty members participated in NSS activities such as Telangana Haritha Haaram (plantation), National Youth Entrepreneurship Development Program, National Level Youth Fest, Gandhi Jayanthi, Swachh Bharat. The Institution also organized awareness campaigns on voting for general elections, health camps, AIDS awareness, clean and green, literacy awareness, women safety awareness, child education program, and significance of Yoga.

JBIEET is well known for its extension activities as part of its gratitude to the people at large. These extension activities are conducted via seven main channels.

1. Unnat Bharat Abhiyan: Received a grant of Rs 50,000 under this scheme. Adopted five villages and conducted various extension programs.
2. National Service Scheme: Various community oriented programs and programs on national swachh bharat mission are conducted through NSS.
3. Government of Telangana: Various renowned programs such as Haritha Haram are conducted

through the government of Telangana.

4. Jeeyar Educational Trust, Hyderabad: Various programs are conducted to sensitize the students on social issues for the holistic development of the students.
5. Students and Staff of the Institution: Helped the neighbourhood communities by forming students and staff of the institution as a group.
  1. One truck load of relief materials was delivered with the help of 20 volunteers from the Institution during Kerala floods in 2018.
  2. Rs 50 lakhs was donated to PM and CM relief funds during COVID-19
  3. Helped conducting elections in the state of Telangana by working as Information volunteers.
6. Shri J. Bhaskar Rao Charitable Trust: Various extension activities are conducted to benefit the society.

File Description	Document
Upload Any additional information	<a href="#">View Document</a>

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

Response: 14

#### 3.6.2.1 Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.

2019-20	2018-19	2017-18	2016-17	2015-16
7	7	0	0	0

File Description	Document
Number of awards for extension activities in last 5 year	<a href="#">View Document</a>
e-copy of the award letters	<a href="#">View Document</a>

### 3.6.3 Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., during the last five years ( including Government initiated programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. and those organised in collaboration with industry, community and NGOs)

Response: 55



### 3.6.3.1 Number of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
26	16	8	3	2

File Description	Document
Reports of the event organized	<a href="#">View Document</a>
Number of extension and outreach Programmes conducted with industry, community etc for the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.6.4 Average percentage of students participating in extension activities listed at 3.6.3 above during the last five years

**Response:** 26.37

#### 3.6.4.1 Total number of students participating in extension activities listed at 3.6.3 above year-wise during the last five years.

2019-20	2018-19	2017-18	2016-17	2015-16
1784	894	404	62	42

File Description	Document
Reports of the event	<a href="#">View Document</a>
Average percentage of students participating in extension activities with Govt or NGO etc	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 3.7 Collaboration

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

**Response:** 22.8

**3.7.1.1 Total number of Collaborative activities per year for research/ faculty exchange/ student exchange/ internship/ on –the-job training/ project work**

2019-20	2018-19	2017-18	2016-17	2015-16
52	26	17	5	14

File Description	Document
Number of Collaborative activities for research, faculty etc	<a href="#">View Document</a>
Copies of collaboration	<a href="#">View Document</a>

**3.7.2 Number of functional MoUs with institutions of national, international importance, other institutions, industries, corporate houses etc. during the last five years (only functional MoUs with ongoing activities to be considered)****Response: 25****3.7.2.1 Number of functional MoUs with institutions of national, international importance, other Institutions, industries, corporate houses etc. year wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
2	10	3	4	6

File Description	Document
e-copies of the MoUs with institution/ industry/ corporate house	<a href="#">View Document</a>
Details of functional MoUs with institutions of national, international importance, other Institutions etc during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## Criterion 4 - Infrastructure and Learning Resources

### 4.1 Physical Facilities

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

**Response:**

The institution is already having more than adequate infrastructure and physical facilities for teaching and learning process. However, with the changing technology impacting teaching learning process there is a need for constant improvement. Therefore, it is further improving the learning environment by providing modern infrastructure on par with the premier institutes in the state based on the requirements. It has serene green surroundings (land) which provides an eco-friendly environment of over 12.5 acres of land, adequate built-up area, impressive infrastructure, and laboratories to conduct experiments and simulations.

The infrastructure of the Institution ensures adequate facilities for academic activities and research. The campus is beautified by gardening and landscaping. The campus has nearly 60 class rooms each with an average area of 88.26 sq.m., well equipped laboratories, well stacked library, spacious playground, gymnasium and facilities for sports & games.

The Institution is equipped with LCD and smart boards to facilitate the modern teaching methods and ICT resources have been sufficiently strengthened in the institution with Computer to Student ratio being about 1:2. The other supportive facilities on the campus are developed to contribute to the effective ambience for curricular, extra- curricular and administrative activities. The overall physical and academic facilities are catering to all kinds of personal, professional, recreational and relational needs of the students and faculty members.

Various physical and infrastructure facilities available for teaching-learning at the Institution are mentioned below:

**Class Rooms:**

The institution has well-furnished, spacious classrooms with good ventilation to conduct classes. Classrooms are maintained as per norms for proper visibility of blackboard and audibility. All the classrooms are ICT enabled and are equipped with fans, lights, LAN/WIFI connectivity.

**Tutorial class rooms:**

Each department has tutorial classrooms to conduct tutorial classes, study hours, remedial classes to clarify the doubts and queries of the students.

**Laboratories:**

As per the regulations of AICTE and JNTUH, the Institution has well-maintained domain centric laboratories to conduct experiments. In addition, "Project Laboratories" and advanced research laboratories are also available for carrying out research.

Life skills labs are exclusively designed to teach various life skill courses which are part of credit courses in JBIET syllabi.

#### **Seminar Halls:**

The institution has vibrant and modern five seminar halls with ICT enabled facilities to conduct seminars, conferences, guest lectures, webinars, and workshops for students and faculty.

#### **Library:**

The institution has a modern automated central library, which is well equipped and furnished with spacious seating capacity for referring books, has access to various e-resources.

#### **Other amenities:**

Apart from regular office spaces to administrators and faculty members, the Institution has infrastructure facilities for curricular, co-curricular and extra-curricular activities.

File Description	Document
Upload Any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

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

##### **Response:**

Sports and physical activity have been intrinsically tied to the campus life of the students at the JBIET. It has 10 acres of land for play fields. The department of Physical Education has enough facilities for both outdoor and indoor games. The JBIET provides very good sports facilities and encourages all its students and staff to take up the sports. The gymnasium facilities are also available for the use of students and staff. The Sports Office of the Institution works towards the goals of providing access to fitness and exercise for all the students, faculty and staff maximizing opportunities to improve sporting performance, building and promoting a sporting culture in the campus and training sports volunteers and involving them in the organisation of sports activities in the campus. The department of Physical Education has also been supporting the participation of students in games and sports tournaments at the inter-university level, state level and national level.

Another hallmark of JBIETs vibrant campus life is the range and diversity of cultural activities happening on the campus round the year. Co-curricular activities are conducted through a range of societies and clubs, which are largely initiated and managed by the students. Adequate slots are allotted in to ensure that enough scope is provided to extra-curricular engagement of students.

Various infrastructural facilities available at the Institution and their usage rate are mentioned below.

**Outdoor games:**

Adequate facilities are provided for Cricket, Football, Volleyball, Ball badminton, Khokho, Tennicoit, Throwball and Basketball. One cricket ground is available for the students to practice and play. Facilities for Sports such as long jump, high jump, shotput, disc throw and 400 meter eight lane standard track are provided.

Usage Rate: 60%

**Indoor games:**

The college has 661.8sqm. built-up area available to facilitate the indoor games such as Table Tennis, Badminton, Chess.

Usage Rate: 80%

**Encouragement for Participation:**

Attendance is provided to the students who represent the college at Inter-University, National and International competitions. Sports material and uniform is provided to the college teams to participate in the events. Annual Intra- mural competitions for boys and girls are conducted. Annual Sports day is celebrated and meritorious sports persons of the college are honoured.

Usage Rate: 50%

**Gymnasium:**

Gymnasias are available at the department of physical education.

Usage Rate: 30%

**Cultural Activities:**

To promote cultural events among students in the campus, cultural clubs were constituted by the college. It encourages the students to participate in District, State, National level, Inter Collegiate and Inter University cultural festivals. Different clubs are constituted at both department level and Institute level. Cultural festival is conducted every year in the month of February and invites students from other colleges. Institute is having 30,000 square feet open area with make shift stage to conduct cultural events.

Usage Rate: 40%

Various sports facilities available at the institution are provided as a separate attachment.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Geotagged pictures	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

#### 4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)

Response: 100

##### 4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 64

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

#### 4.1.4 Average percentage of expenditure for infrastructure augmentation excluding salary during the last five years (INR in Lakhs)

Response: 26.44

##### 4.1.4.1 Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
349.00	237.55	092.01	274.20	204.03

File Description	Document
Upload Details of Expenditure , excluding salary during the last five years	<a href="#">View Document</a>
Upload audited utilization statements	<a href="#">View Document</a>

## 4.2 Library as a Learning Resource

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

#### Response:

The Library is located in the “Main Block” of the campus with built up area of 1148 square meters. The institution has automated the library services to improve the quality and efficiency of the services that the library provides.

The Integrated Library Management System (ILMS) provides efficient, comfortable and prompt service to all its users including students, faculty and guests. Besides regular updates on new arrivals through Online Public Access Catalogue, users can access the details of borrowings by them at any time of the day. The ILMS facilities also help users to check the availability of books. Users have access to and avail facilities from the library and from anywhere within the campus. Web OPAC (Online Public Access Catalogue) facility is made available through KOHA Library Management Software to know the bibliographical details and availability.

The LMS provides an extensive searching facility by various fields like the Title, Author, ISBN, Keyword, publishers, and domain. All the active book collection is updated in the KOHA Library Management Software database and the Web OPAC is available for the users. The issue and return of books has been activated with the KOHA Library Management Software. ILMS of the Library is an essential foundation for handling all its day to day activities i.e receiving of books, ordering process, cataloguing, classification of books, serial control, circulation etc. Library is automated using the following Integrated Library Management System:

Name of the ILMS Software: **KOHA Library Management Software**

Nature of Automation: **OPAC Automated**

Version: **19.5**

Year of Automation: **2018**

The institution library was fully automated in a phased manner and the details of which are given below:

S. No.	Year	Activity Carried Out
1	2018	Automation done using ECAP Library Management Software

2

2020

Automation done using KOHA Library Management software

JBIEET has Digital Library with 28 Computers which are connected on LAN and Digital Library has large database of NPTEL videos of 8 TB for easy access to students and faculty with dedicated Library server. Students can access all e-resources available.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste Link for additional information	<a href="#">View Document</a>

#### 4.2.2 Institution has access to the following: 1. e-journals 2. e-ShodhSindhu 3. Shodhganga Membership 4. e-books 5. Databases 6. Remote access to e-resources

**Response:** A. Any 4 or more of the above

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Details of subscriptions like e-journals, e-books , e-ShodhSindhu, Shodhganga Membership etc	<a href="#">View Document</a>

#### 4.2.3 Average annual expenditure for purchase of books/ e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)

**Response:** 13.29

##### 4.2.3.1 Annual expenditure of purchase of books/e-books and subscription to journals/e- journals year wise during last five years (INR in Lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
20.27	18.35	9.81	9.11	8.92



File Description	Document
Details of annual expenditure for purchase of and subscription to journals/e-journals during the last five years	<a href="#">View Document</a>
Audited statements of accounts	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 4.2.4 Percentage per day usage of library by teachers and students ( foot falls and login data for online access) during the last completed academic year

**Response:** 16.11

##### 4.2.4.1 Number of teachers and students using library per day over last one year

Response: 418

File Description	Document
Details of library usage by teachers and students	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 4.3 IT Infrastructure

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

**Response:**

IT services provide support and facilities to students, faculty, staff and administration to facilitate effective teaching-learning, research, management and administration. The infrastructure and applications support are constantly updated to meet the ever-changing needs of the institute.

The JBIET is committed to develop a modern, secure and sturdy IT infrastructure to manage the teaching-learning and administrative activities of the institute. With this purpose, JBIET has developed a comprehensive information security policy to protect the availability, integrity, and confidentiality of JBIETs information technology (IT) resources. This policy applies to all faculty, staff, and students of the institute, and anyone who uses JBIET resources.

JBIET has well established IT infrastructure with over 1200 computing devices, 5000 meters of networking, 2 firewalls and over 50 switches providing gigabit network and 1 Gbps of internet speed. Such infrastructure requires a detailed IT policy for its proper management. JBIET has adopted a well suited, comprehensive IT policy for its IT infrastructure after elaborate deliberation at various levels including “HOD and Deans Meeting” and requisite approvals by the management. This IT policy is available on JBIET website ([https://www.jbiet.edu.in/Policies/IT\\_Policy.pdf](https://www.jbiet.edu.in/Policies/IT_Policy.pdf)), in Central Library, Departmental Libraries, IT Services office, and IQAC office.

JBiet IT policy defines following items:

1. Process for requisition of an IT infrastructure
2. Process for reporting problem and tracking service response.
3. Process for requesting for WiFi by registering MAC address of the device.
4. Allocation of email, WiFi and LMS password.
- 5 Procedure for requisitioning installing new software.
6. Open source friendly framework.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

#### 4.3.2 Student - Computer ratio (Data for the latest completed academic year)

**Response:** 2:1

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Student - computer ratio	<a href="#">View Document</a>

#### 4.3.3 Bandwidth of internet connection in the Institution.

**Response:** 250 MBPS

File Description	Document
Details of available bandwidth of internet connection in the Institution	<a href="#">View Document</a>

#### 4.3.4 Institution has the following Facilities for e-content development

1. Media centre
2. Audio visual centre
3. Lecture Capturing System(LCS)
4. Mixing equipments and softwares for editing

**Response:** A. All of the above

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Link for Additional information	<a href="#">View Document</a>

#### 4.4 Maintenance of Campus Infrastructure

##### 4.4.1 Average percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component during the last five years

**Response:** 56.74

##### 4.4.1.1 Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component year wise during the last five years (INR in lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
802.30	589.74	505.88	361.65	273.03

File Description	Document
Details about assigned budget and expenditure on physical facilities and academic facilities	<a href="#">View Document</a>
Audited statements of accounts	<a href="#">View Document</a>

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

**Response:**

The institution has defined procedures for maintaining physical, academic and support facilities as per the maintenance policy.

##### **MAINTENANCE SECTION:**

There is a centralized maintenance section which is headed by a Campus Administrator, Maintenance Engineer and supported by skilled technicians. This section takes care of maintenance of infrastructural facilities which includes plumbing works, electrical, carpentry, masonry and sewage works. The section receives maintenance requirements from the departments and other sections and undertakes the necessary work following internal operating procedures under the directions given by the concerned head of the

department.

## **INTERNAL OPERATING PROCEDURE:**

Any problem that persist in a department is represented to the maintenance in charge through a letter/mail. The in-charge deputes a skilled person/technician to attend the problem. The skilled person resolves the problem on site immediately, if no additional material is required. In case of material requirement, it is received from the maintenance section through an indent. If the material is to be procured from outside, permission is obtained from the maintenance in charge / Head of the Institution and arranged for procurement of material to fix the problem.

### **1. Physical Facilities**

#### **Electrical Maintenance:**

Monthly monitoring of electrical equipment such as Generator, UPS, and Batteries is done and its status is entered in the Log/Stock Book. The suppliers/service providers are approached in case of any major fault.

For replacement of any part, quotations are invited and part is procured as per the centralized purchase procedure.

The work done by the service provider will be verified by the respective authorities and a report on completion of work is submitted to the Principal.

Annual inspection of Electrical installations maintenance and safety of Electric supply is done by Directorate of Electrical Safety, Government of Telangana.

#### **Building Maintenance:**

A Civil Engineer and a Supervisor are responsible for new construction works and the civil maintenance of buildings including laying and maintenance of the plumbing, water pipe lines, and sanitary fittings following the internal operating procedure.

Annual inspection is done for Fire Safety by Telangana State Disaster Response and Fire Service Department. Pest Control maintenance is done periodically.

#### **Furniture Maintenance:**

The Department of Mechanical Engineering maintains the central workshop facility which provides the services including custom fabrication of cabinets, desks, counter tops, installation of doors and windows, and frames for displaying banners.

The internal operating procedures are followed for maintaining the furniture in the institution.

#### **Network / Wi-Fi Maintenance:**

The functioning of college intranet and internet facility is monitored and maintained by the hardware technicians in association with Network administrator of Department of CSE.

Any up gradations or modification of the existing Network Model will be carried out by inviting quotations from external agencies following central purchase procedure.

Issues related to Telephone & intercom will be serviced by the technician from Department of ECE.

## **2. Academic Facilities:**

### **Library:**

Central library supports text books, reference books, journals and periodicals for issuing to students, staff and faculty.

Digital library caters e-books, e-journals and online resources that can be utilized within the library and also within the campus with proper user credentials.

Library committee with a Dean (Information and Library Sciences) monitors the effective functioning of library services.

### **Laboratories:**

Equipment in the laboratories are maintained regularly.

The in-house maintenance and repairs are addressed by the respective department technicians who are qualified and trained.

Major problems and repairs are attended in consultation with the suppliers following the central purchase procedure.

### **Class Rooms:**

Every Department has a faculty in-charge who will periodically check the condition of class room/laboratory amenities like benches, chairs, black boards, fans, lights and LCD's.

The in-charge will resolve the problem through the Head of the Department following the internal operating procedure.

### **Computer Facilities:**

Around 1200 computers, 60 printers and sufficient scanners are available for the staff and students.

Computers and software in the laboratories are maintained by computer hardware technicians under the supervision of a senior faculty.

## **3. Supporting Facilities:**

### **Sports:**

The playground and sporting equipment including Gym facilities are regularly available and maintained under the supervision of Physical Director.

#### **NSS:**

The College encourages the students to participate in social and nation building activities.

It aims to motivate the students to identify the needs and problems of the community and involve them in problem solving process.

#### **4. Other Facilities:**

The Institute has RO plant, which provides 24X7 drinking water facility. Sufficient number of water coolers is available in the departments to provide clean drinking water. Periodically the quality of water is tested in the Environmental Engineering laboratory of Department of Civil Engineering.

JBIEET has fleet of busses to cater to the transportation needs of the students. In addition, frequent and ample public transport facility is also available as the institution is situated on the main road connecting the city.

Adequate man power is employed to maintain cleanliness of the campus, Classrooms, Staff rooms, Seminar halls and Laboratories, etc. Wash rooms and rest rooms are well maintained.

The Green Cover of the campus is well maintained by full time gardeners.

The campus security is monitored through surveillance Cameras and is maintained by supplier under AMC.

The institution has a tie-up with Bhaskar General Hospital for check-ups of the students and providing medical assistance in case of need.

The Institution has Canteen facility where subsidized food is available for staff and students.

Syndicate Bank branch is located inside the campus to facilitate transactions.

<b>File Description</b>	<b>Document</b>
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

## Criterion 5 - Student Support and Progression

### 5.1 Student Support

#### 5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during last five years

**Response:** 60.79

##### 5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
1446	1519	1494	1589	1777

File Description	Document
upload self attested letter with the list of students sanctioned scholarships	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years	<a href="#">View Document</a>

#### 5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution and non-government agencies during the last five years

**Response:** 2.31

##### 5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution / non- government agencies year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
96	59	50	46	39

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Number of students benefited by scholarships and freeships besides government schemes in last 5 years	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

**5.1.3 Following Capacity development and skills enhancement activities are organised for improving students capability 1. Soft skills 2. Language and communication skills 3. Life skills (Yoga, physical fitness, health and hygiene) 4. Awareness of trends in technology**

**Response:** A. All of the above

File Description	Document
Details of capability enhancement and development schemes	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link to Institutional website	<a href="#">View Document</a>

**5.1.4 Average percentage of students benefited by career counseling and guidance for competitive examinations offered by the Institution during the last five years.**

**Response:** 100

**5.1.4.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
2399	2418	2406	2645	3029

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**5.1.5 The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases 1. Implementation of guidelines of statutory/regulatory bodies**



2. Organisation wide awareness and undertakings on policies with zero tolerance
3. Mechanisms for submission of online/offline students' grievances
4. Timely redressal of the grievances through appropriate committees

**Response:** A. All of the above

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	<a href="#">View Document</a>

## 5.2 Student Progression

### 5.2.1 Average percentage of placement of outgoing students during the last five years

**Response:** 28.87

#### 5.2.1.1 Number of outgoing students placed year - wise during the last five years.

2019-20	2018-19	2017-18	2016-17	2015-16
158	251	230	204	150

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Details of student placement during the last five years	<a href="#">View Document</a>

### 5.2.2 Percentage of student progression to higher education (previous graduating batch).

**Response:** 4.45

#### 5.2.2.1 Number of outgoing student progressing to higher education.

**Response:** 20

File Description	Document
Upload supporting data for student/alumni	<a href="#">View Document</a>
Details of student progression to higher education	<a href="#">View Document</a>

**5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)**

**Response:** 100

**5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations, etc.)) year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
48	27	36	33	18

**5.2.3.2 Number of students appearing in state/ national/ international level examinations (eg: IIT/JAM/ NET / SLET/ GATE/ GMAT/CAT,GRE/ TOEFL/ Civil Services/ State government examinations) year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
48	27	36	33	18

File Description	Document
Upload supporting data for student/alumni	<a href="#">View Document</a>
Number of students qualifying in state/ national/ international level examinations during the last five years	<a href="#">View Document</a>

### 5.3 Student Participation and Activities

**5.3.1 Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.**

**Response:** 23

**5.3.1.1 Number of awards/medals won by students for outstanding performance in sports / cultural activities at inter-university / state / national / international events (award for a team event should be counted as one) year - wise during the last five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
6	3	5	3	6

File Description	Document
Number of awards/medals for outstanding performance in sports/ cultural activities at inter-university / state / national / international level during the last five years	<a href="#">View Document</a>
e-copies of award letters and certificates	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 5.3.2 Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution

#### Response:

JBIEET strongly believes that outcome based learning is possible only with active participation of the students. In pursuit of quality education, the Institute provides equal stakes in decision making process by involving students in several statutory and non-statutory bodies. These students and alumni are encouraged to participate in decision making.

#### Student participation in Academic & Non-academic Activities:

Student participation and their feedback for design of syllabus to design of evaluation process is ensured in creation of Vision, Mission, PEOs, Syllabus formation, evaluation and curriculum gap analysis. Alumni are a part of every board of studies and they represent student's aspirations in key academic activities of the Department.

The Feedback from the student is collected several times during their study. They provide feedback on Teaching & Learning practice, that helps Institute decide on requirement of extra content, additional classes, higher industry orientation and efficacy of faculty members in teaching. Students give feedback on college amenities and facilities such as canteen, hostel, mess, sports infrastructure, co-curricular, extracurricular activities and Internships. In turn, the institute focuses on improving the facilities.

Students of Institute are involved in its several committees to present their views for their development and the college as well. The committees include Board of studies (BOS) of respective departments, IQAC,

Disciplinary committee, women empowerment cell, Grievance Redressal Committee, Hostel Committee, and anti-ragging committee.

At JBIET, there are student technical associations in each Department Viz., Clique, CESA etc. Apart from this, students are also members in many professional society chapters Viz., ISTE, IEEE, IETE, ACM, IE, SAE, HMA. Students organize extra and co-curricular activities under these associations and chapters.

At JBIET, student council is designated as Student Activity Centre (SAC). This Student Council takes care of complete range of academic, co-curricular and extra -curricular activities. Major activities performed by the SAC are:

1. Organise Student Conferences, Workshops & Seminars in various Curricular & co-curricular areas. It organizes more than 20 events every year.
2. Support organising Institute level workshops, Conferences, seminars etc.
3. Organise sports and games at Institution level and regional level with the support of Institute Administration or regional funding agencies.
4. Organise cultural activities like: Annual Cultural Event, INXS, Teachers Day, Republic Day, Engineers Day, Bathukamma, and Telangana formation Day, Debate, Essay Writing, Elocution, Hackathon, Ideathon,
5. Support uplifting neighbouring villages of JBIET by adopting them and providing educational, health & sanitation services, plantation, Harithaharam, provision of potable water and land salinity events.
6. Support state Govt., in local administration, assisting Police in traffic, rural awareness and election poll management.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for Additional Information	<a href="#">View Document</a>

### 5.3.3 Average number of sports and cultural events / competitions organised by the institution per year

**Response:** 19.8

#### 5.3.3.1 Number of sports and cultural events / competitions organised by the institution year - wise during the last five years.

2019-20	2018-19	2017-18	2016-17	2015-16
6	33	24	24	12

File Description	Document
Report of the event	<a href="#">View Document</a>
Number of sports and cultural events / competitions organised per year	<a href="#">View Document</a>

## 5.4 Alumni Engagement

**5.4.1 The Alumni Association / Chapters (registered and functional) contributes significantly to the development of the institution through financial and other support services.**

### Response:

JBNET Alumni is a key stake holder in its Academic and other development activities. The Institute consults its alumni on important aspects ranging from Vision, Mission, PEOs, Syllabus, evaluations, creation of amenities, Industry Institute needs and placements. Alumni are member of IQAC, JBNET.

JBNET is 23-year-old Institute and its alumni are there in every part of the world with large number in USA. To facilitate effective alumni connection and services, JBNET Alumni Association was formed in 2008 and it was registered in February 2019, vide Reg No :483 of 2019.

JBNET organizes annual Alumni event which is attended by its Alumni, not only in India but across the world. This event, which is organized in February of Every Year is generally attended by more than three hundred members. Alumni Feedback is an important tool to assess' efficacy of JBNET academic performance, alumni survey is used for indirect PO attainment with 25 % of total weightage. Alumni members are part of BOS.

JBNET alumni help JBNET in following ways:

- 1.Supporting JBNET by delivering Guest Lectures in the area of their expertise.
- 2.Helping JBNET by providing placement contacts for student's placement.
- 3.Providing amenities in their respective Departments.
- 4.Helping JBNET Students going abroad for Higher educations by providing temporary accommodation and hand holding services.

JBNET helps its alumni in following way:

1. By organizing Conference, Workshop, Seminar which can support Alumni in their career growth.
2. By extending placement services even after passing out.

JBIEET is proud of achievements of its Alumni. Some noted Alumni members are:

S. No.	Name of the Alumni	Name of the Department	Achievement
1.	Mr. M. Sree Abhinav	IT	Indian Police Service (IPS)
2.	Ms. Mounika Kishore	CSE	Indian Forest Service (IFS)
3.	Mr. Sandeep Kumar	EEE	Indian Revenue Service (IRS)
4.	Ms. Mounica Chowdhury	ECE	Entrepreneur, CEO, MN Digital Marketing
5.	Mr. Mohammed Akbar Ansari	EEE	Entrepreneur, CEO, Electromation Technologies
6.	Mr. U. Narasimha Rao	ME	Bharat Petroleum Corporation Limited (BPCL)
7.	Mr. V. Rama Krishna	EEE	Telangana State Power Generation Corporation Limited (TSGENCO)
8.	Lieutenant P. Nagaja	EEE	Indian Navy

File Description	Document
Any additional information	<a href="#">View Document</a>

#### 5.4.2 Alumni financial contribution during the last five years (in INR).

**Response:** E. <2 Lakhs

## Criterion 6 - Governance, Leadership and Management

### 6.1 Institutional Vision and Leadership

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

**Response:**

**Response:**

JB Institute of Engineering and Technology (JBIET) was established in 1998 and it is one of the top ten most preferred institutions in Telangana.

#### **Vision of the Institution:**

To be a centre of excellence in engineering and management education, research and application of knowledge to benefit society with blend of ethical values and global perception

#### **Mission of the Institution:**

- To provide world class engineering education, encourage research and development.
- To evolve innovative applications of technology and develop entrepreneurship.
- To mould the students into socially responsible and capable leaders.

#### **Nature of Governance:**

- Participatory Management by all the stakeholders including the promoters is practiced
- All the members of the Governing Body participate actively, and with their extensive experience, and leadership skills contribute to the growth and development of the institution.
- Statutory committees like Boards of Studies, Academic council, Finance committee, and nine other non-statutory committees involving faculty are constituted to help in administration.
- The Principal frames the rules and regulations for all academic and administrative issues under the guidance of the Governing body and Academic council of the institution. He ensures the recruitment of faculty with the calibre from eminent institutions to fulfil the vision of moulding the institution into a “Centre of academic excellence and advanced research”.

#### **Participation of Teachers in Decision Making Bodies:**

- The HOD in association with faculties is responsible for upgrading laboratories, syllabus, etc. In consultation with faculty members, he prepares a timetable and decides the allotment of workload.

HOD is responsible for content delivery, effective teaching and learning process, monitoring mentoring system, up-gradation, and maintenance of Centre of Excellence, ensuring calibration and maintenances of equipment.

- The senior professors, with the assistance of faculty members, act as conveners of the non-statutory Committees and assist the Principal on routine administration and academic processes. Teachers play a proactive role in the academic and administrative activities of the institution.
- With prior approval of BOG, modernization of the facilities, implementation of new projects for R&D, expansion of infrastructure, utilization of laboratories, library resources, classrooms, and sports facilities are taken up in the annual plan.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

#### **6.1.2 The effective leadership is reflected in various institutional practices such as decentralization and participative management.**

##### **Response:**

Designed curriculum of JBIET not only addresses the local and global needs but also meets the requirements of AICTE model curriculum. This case study explains the process and procedure of developing the curriculum duly considering the Pos&PSOs. The case study mentioned below substantiates the active decentralization and participative management in the timely and efficient revision of curriculum at JBIET.

A series of discussions were held with various stakeholders to design and develop a participative, and productive curriculum. The Department Assessment Committee consisting of senior members of the department, analyzes the inputs/feedback received from faculty, students, employers and alumni on the curriculum. After incorporating suggestions given by the stakeholders to enrich the curriculum and to be in line with the AICTE model curriculum.

The draft copy of syllabus is prepared with the help of department faculty members and tabled for review and suggestions from the BoS. Suggestions given by the BoS are incorporated after reviewing their **relevance and significance** and submitted for approval of academic council. The recommendations of the



BoS is sent to approval of Academic Council. The approved curriculum with the **formal approval** of BOG is implemented.

Thus, the decentralization and participative management in the revision of curriculum is ensured.

The evidences and supporting documents for the academic year 2017-18 are enclosed to support above case study.

<https://www.jbiet.edu.in/NAAC/6.1.2/6.1.2Proof.pdf>

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for strategic plan and deployment documents on the website	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

## 6.2 Strategy Development and Deployment

### 6.2.1 The institutional Strategic / Perspective plan is effectively deployed

#### Response:

The perspective and strategic plan is made by the institution to fulfill the requirements of industry and to address real world problems of local and global by providing quality education to produce technically competent Engineers and Managers to serve the nation. The students' progress towards technical and social excellence is achieved with well-established infrastructure. The institute has developed a strategic plan of established IQAC for ensuring quality in teaching and learning, enhancing industry-institute interaction, innovation and incubation center, promotion of R&D in faculty and students.

One of the best strategies executed for effective quality of education is given below.

#### Implemented Outcome-Based Education

JBiet has initiated and successfully implemented outcome based education after taking approval from Board of Governance in the 32nd meeting to improve in the areas of curriculum, teaching learning process, learning evaluation, faculty contribution, and finally to achieve NBA accreditation.

By involving all stakeholders, considering feedback given by all stakeholders and by using Bottom-up approach, JBiet evolved the vision, mission statements. Every program has its identities and defined Program Educational Objectives. To meet the stated PEOs, through COs and POs/PSOs of curriculum was

revised after taking approval in statutory bodies. Each course is designed to meet about 5-6 course outcomes. The institute organized workshops to train the faculty on course objectives, course outcomes and various teaching methods (Pedagogical initiatives) to achieve theme of OBE. A process was defined and disseminated about computing CO-PO attainment levels. IQAC continuously monitors the teaching learning process, evaluation process and other practices by conducting Administrative and Academic audits through internal and external experts. by conducting various audits such as course file audit, classroom monitor audit, faculty work register, library register, question paper audit and maintaining the continuous improvement. Implementation of various OBE centric practices resulted in successful accreditation of four programs by NBA.

The following activities were carried out to implement Outcome Based Education successfully.

- Approval was taken for implementing OBE in 32nd BOG meeting.
- Organized an awareness workshop and trained the faculty members on OBE.
- Curriculum was designed to address program outcomes and program specific outcomes and other requirements of OBE.
- Implemented pedagogical methods to improve teaching learning process
- Continuously monitored question paper setting to ensure COs are mapped to each question so that attainments can be computed accurately.
- CO and PO attainments were done as per the procedure suggested by IQAC.
- Organized various professional development programs for teaching staff for enriching their knowledge.
- Classrooms are equipped with ICT facilities to enhance teaching and learning process.

On successful implementation of OBE, the institute obtained NBA accreditation for 4 programs namely B. Tech (Electrical & Electronics Engineering), B. Tech (Electronics and Communication Engineering), B. Tech (Computer Science & Engineering) and B. Tech (Information Technology).

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Strategic Plan and deployment documents on the website	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

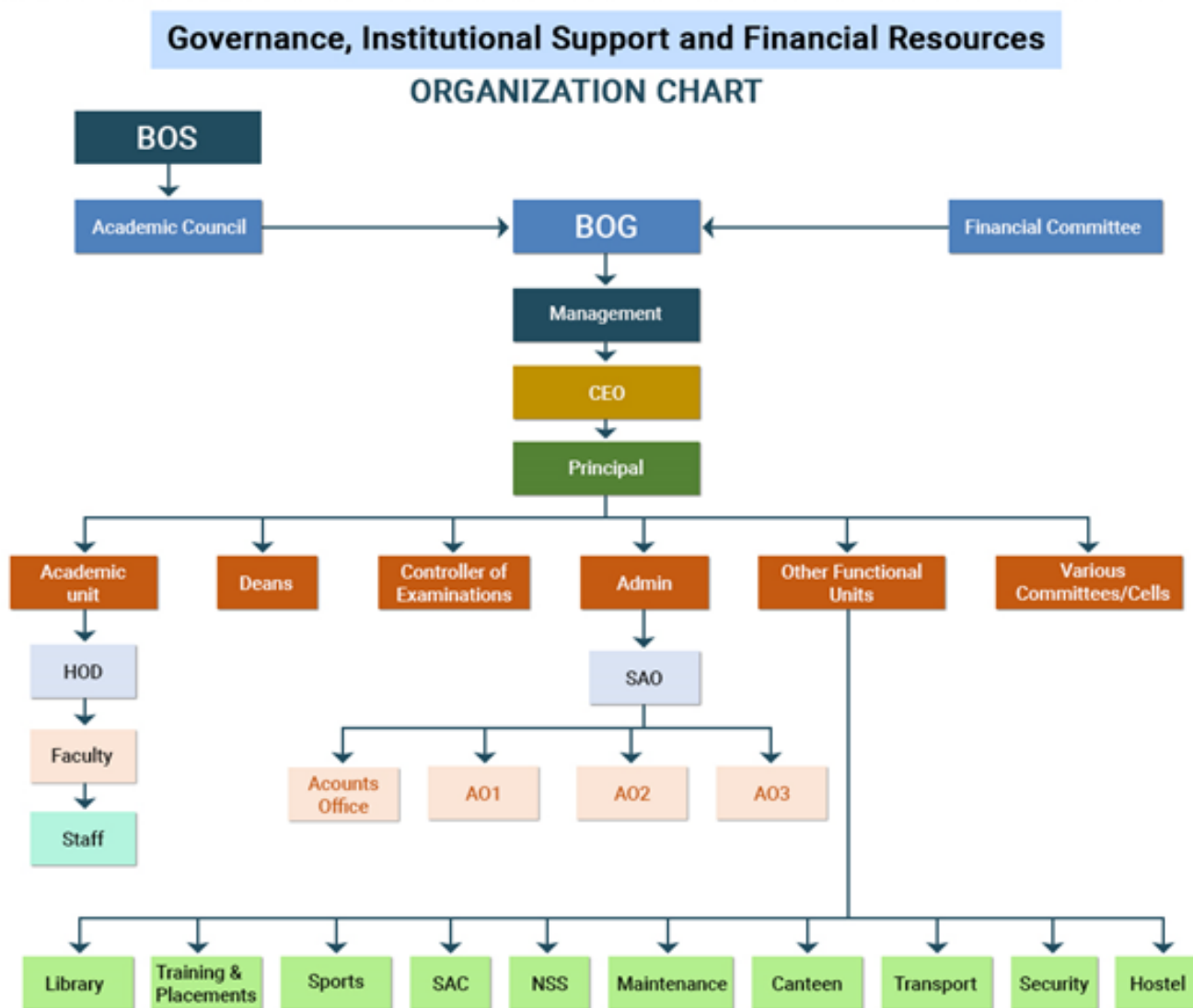
**6.2.2 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.**

**Response:**

-

JB Institute of Engineering and Technology has many statutory and non-statutory bodies carrying out functions and responsibilities in pursuit of institutional mission and core values.

The organization structure of the Institute is shown below.



### Governing Body

The administration is overseen by the Board of Governors (BOG). The governing body meets regularly and is conducted transparently. The BOG approves the Strategic Plan, Vision & Mission, and the Budget based on the Strategic Plan. The institution is well known for its good administrative practices and work culture.

## **Academic Council [AC]**

The Academic Council is the highest academic body that decides and advises on all academic matters. Academic proposals of BOS from each department are scrutinized and approved with or without modifications by the academic council. It also recommends/advises the BOG on proposals for a new program of study and other academic matters. Departments are advised on admission, sports, extracurricular activities, maintenance, etc. College is advised regarding the institution of scholarships, studentships, fellowships, prizes, and medals, etc. The academic council performs such other functions as may be assigned by the BOG.

## **Finance & Administrative Committees**

The institution has in place several Committees / Sub-Committees in addition to statutory committees to continuously monitor the finance and administrative activities. The committees comprise key stakeholders.

### **Anti-Ragging Committee**

Anti-Ragging Committee will be the Supervisory and Advisory Committee in preserving a Culture of Ragging Free Environment in the College Campus. The Anti-Ragging Squad will work under the Supervision of Anti Ragging Committee and engage in the works of checking places like Hostels, Buses, Canteens, Classrooms, and other places of student congregation. Anti-Ragging Committee will be involved in designing strategies and action plans for curbing the Menace of Ragging in the college by adopting an array of activities.

### **Disciplinary Committee**

This committee will meet at least once in a semester and submit its minutes of meeting to the principal for necessary actions. This committee is formed to maintain and enforce strict discipline within the college campus. All the students should wear their ID Cards while they are on campus and in their respective classrooms. If any indiscipline is found by any of the students, warn them on the first instance. This committee can take disciplinary action based on the rules and regulations of the committee if the pattern of misconduct continues.

### **Women Empowerment & Protection Committee**

This committee strives for women empowerment & creation in JBIET Campus. This committee further looks into all the complaints received from female employees concerning any gender-related offenses and submit a recommendation to the Principal. This committee meets at least once in a semester and submit its minutes of meeting to the principal for necessary actions.

### **Grievance & Redressal Cell**

This committee deals with all the Grievances directly which is related to the common problems at the Institute level both Academic and Administrative. This committee will meet at least once in a semester and submit its minutes of meeting to the principal for necessary actions.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link to Organogram of the Institution webpage	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

### 6.2.3 Implementation of e-governance in areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

**Response:** A. All of the above

File Description	Document
Screen shots of user interfaces	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
ERP (Enterprise Resource Planning) Document	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

## 6.3 Faculty Empowerment Strategies

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

**Response:**

**Response:**

The following are the welfare measures extended to the teaching and non-teaching staff of the Institute:

## Teaching Staff

- As per the norms of AICTE, Pay commission recommendations are implemented
- Service, Conduct and Leave Rules are made available.
- Free medical facility available at Bhaskar General Hospital (Sister concerned institution).
- Maternity Leave for female staff members.
- Special casual leaves are sanctioned for attending conferences and workshops.
- Providing Registration fees, Dearness allowance, Travel grants for faculty attending conferences and workshops.
- Incentives for R&D activities
  - Seed Money for Initiating Research Work
  - Incentives for publication in Journals and Conferences
  - Incentives of 5% of the total research project grant obtained by the faculty
  - Reduction of workload for the faculty during their final submission of the Ph.D thesis
  - Increments after getting Ph.D
  - Reimbursement of entire expenditure (TA, DA, accommodation, Local travel etc.,) for faculty
  - interaction/discussion with R&D personnel and submission of research proposals at various defense organizations
  - Provision of space for faculty startups
  - Provision of exclusive computing facilities to all senior faculty and faculty pursuing research
- Recognition of the faculty with "Best Teacher Award" and Incentive
- Sports and Fitness facilities
- Health Awareness Programs like blood donation, organ donation, etc is conducted in every semester.

## Non-Teaching Staff

- Service, Conduct and Leave Rules are made available for all staffs.
- Free medical facility available at Bhaskar General Hospital (Sister concerned institution).
- Maternity Leave for female employees
- Half-pay medical leave for staff members
- Uniform is provided for supporting staff.
- Health Awareness Programs like blood donation, organ donation, etc is conducted in every semester.
- Sports and Fitness facilities

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

**6.3.2 Average percentage of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the last five years.****Response:** 24.61**6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
81	60	51	40	31

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

**6.3.3 Average number of professional development / administrative training Programmes organized by the institution for teaching and non-teaching staff during the last five years.****Response:** 23.8**6.3.3.1 Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
35	28	19	22	15

File Description	Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centres).	<a href="#">View Document</a>
Reports of Academic Staff College or similar centers	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>



#### 6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course ).

**Response:** 32.36

##### 6.3.4.1 Total number of teachers attending professional development Programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes year wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
121	63	58	72	31

File Description	Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	<a href="#">View Document</a>
IQAC report summary	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

## 6.4 Financial Management and Resource Mobilization

### 6.4.1 Institution conducts internal and external financial audits regularly

**Response:**

Management and monetary planning are taken with utmost importance at JBIET which in turn can provide fertile ground for academics and development. The growth and development of the institution is achieved through proper financial planning and management. This institution has an agile monetary management system which conducts regular internal audits by certified auditors who are authorized to do the same. Moreover, the Govt. of Telangana also keep monitoring of the accounts/ finance through Telangana State Admission and Fee Regulatory Committee (TAFRC). The reimbursement fees for eligible students are paid by the state Government, which is followed by a transparent receipt. The Accounts Department of JBIET maintains the records and receipts of any procurement and/or expenditure of items. It may be noted that all records are duly submitted to the government from time to time. After a proper review, the government of Telangana approves the expenditure statement, which is submitted by JBIET and the approved statement is fetched to TAFRC for further modification of fee structure for next block period which is a period of three years.



The Finance committee of JBIET reviews their planning periodically. The Governing body of the institution takes advice from Finance Committee in all financial issues. This institution is registered under 12A of the department of Income Tax.

To ensure financial amenability, the institute conducts audit by both internal as well as external auditors periodically. This institute takes help of third party auditor in every assessment year to prepare budget at institute level. Later, that proposed budget is presented in front of governing body for approval.

At the beginning of financial year, an annual budget including recurring and non-recurring for the upcoming year is made. Whereas governing body, after thorough review, approves institutional and department internal budget proposals and requirements.

JBIET's fund mobilization policy focuses on mobilization of funds in institute level. It may be noted that, the primary income is through collection of tuition fees, whereas external research grants and faculty consultancy works augment the revenue generation.

Verification of all cash books, journals voucher, payment receipts, ledger accounts and all bank accounts are conducted every financial year. Income and expenditure statement along with depreciation statement are prepared and submitted by external auditors. The statements are published in HEI website to strengthen transparency of the audits. It is also sent to statutory bodies for their records.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

#### **6.4.2 Funds / Grants received from non-government bodies, individuals, philanthropists during the last five years (not covered in Criterion III and V) (INR in Lakhs)**

**Response: 0**

##### **6.4.2.1 Total Grants received from non-government bodies, individuals, Philanthropers year-wise during the last five years (INR in Lakhs)**

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

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

##### Response:

The Finance Committee of the institute consists of:

1. Dr. P.C. Krishnamachary, Principal (Chairman).
2. Sri J.V. Krishna Rao, Secretary. JBES, Member
3. Sri. R. Muthu Krishna, Chief Finance Officer (CFO), JBES, Member
4. Sri. P. C. Pusti, Finance Manager, JBES, Member
5. Dr. P. Subrahmanyam, Associate Professor, JBIET Member
6. Sri. G. Bapuji, Deputy Registrar, JBIET, Member

1. Budget estimates relating to the grants received /receivable from funding agencies, and income from fees, etc. collected for the activities to undertake the scheme of autonomy; and
2. Audited accounts for the above.

In the finance committee meeting the following are discussed

- Verification of Audited statements
- Budget proposal for the next financial year
- Income and expenditure for the current year
- Implementations/follow up for the suggestion given by the committee members
- Any variation of fee structure (examination fee) and remuneration for conducting examinations will be placed before the committee for approval.

**Financial planning** is also done by the Principal in consultation with all the related committees. The finance committee looks after any of the financial matters.

- Salaries of regular staff, labor through outsourcing etc.
- Establishment and Maintenance, including the electricity and telephone bills
- Correspondence cost
- Statutory fee, Affiliation fee, youth festival fee paid to university, NBA Accreditation fee, AICTE prescribed fee and NAAC application submission etc. Examination section related expenditure.
- Equipment related expenditure covering Computers, Peripherals and Installation.
- Expenditure relating to Lab equipment & classroom equipment, Maintenance related (Civil,

- electrical etc.) Consumables and Non- consumables expenditure
- Academic activities like conferences, co- & extra- curricular activities
  - Infrastructure, Office infrastructure, including stationery, classroom infrastructure, planning civil constructions, including buildings and individual items in association with Campus Facilities & Maintenance Committee etc.
  - Repairs of all kinds of Service oriented activities
  - Hospitality for visitors other than those invited for conferences etc. like special meetings e.g. Governing body, Academic Council, Finance Committee, BOS etc.
  - Campus Interviews related expenditure
  - Library purchases Books, Journals, Computers, Information processing
  - Software, information portals
  - Software installation and maintenance
  - Special functions like Fresher's day, Engineers' day, Sports events, College day etc.
  - Printing expenditure
  - New Programs of study at different levels
  - Introduction of new courses in the existing programmes, including increase in intake for the existing ones.
  - Preparation Brochure, Hand Book, Alumni book, JBIET Research Review and Spoorthy Book, Syllabus Book etc.

### Annual Budget for departments

Financial Transparency for efficient use of financial resources is incurred through

- All the monetary transactions (both the receipts and payments) are processed through Canara Bank (Formerly Syndicate Bank) which is a Nationalized Bank
- Information pertaining to funded projects are also placed on the website
- The statements of accounts are audited by certified Chartered Accountants

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

## 6.5 Internal Quality Assurance System

**6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes visible in terms of – Incremental improvements made for the preceding five years with regard to quality (in case of first cycle) Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives (second and subsequent cycles)**

**Response:**

The IQAC has been consistently striving to institutionalize quality assurance strategies and processes at every level of the institution are functioning.

Here are the two practices Institutionalised by as a result of IQAC initiatives.

#### **Practice –I:**

##### **Academic and Administrative Audit:**

IQAC conducts both academic and administrative audit to enhance the quality of the institution.

Internal Quality Assurance Cell (IQAC) conducts academic audit which reviews the processes and procedures followed by various department to enhance the quality of the programs in terms of program objectives and ensure that the course and program outcomes are achieved.

Academic audit is a two-fold system comprising of Internal and External Audits.

Academic audit is conducted by audit committee, comprises of both internal and external members appointed by IQAC.

Periodical Internal Academic Audits are conducted based on the Teaching Learning Process, and other departmental activities. After the completion of Internal Academic Audit, the audit reports are evaluated by an external academic expert. The recommended audit reports are then submitted to Principal for taking corrective actions. The Principal shares them with Head of the departments to implement the suggestion given by the audit committee. Head of the Department (HOD) implement the suggestions and submit the action report to the IQAC.

Internal Quality Assurance Cell (IQAC) ensures Administrative Audit process of evaluating the efficiency and effectiveness of the administrative procedures. Head of the institution appoints the Administrative Audit Committee which helps in auditing various administrative procedure, functional units and submit the audit report to Principal for further action. Administrative wing of the Institute implements the suggestions. IQAC monitors the process of implementing the suggestion recommended by the audit committee and ensures its compliance.

#### **Practice –II:**

##### **Feedback from Students on Facilities**

The provision of good faculty, infrastructure, and other resources are essential for the students to face emerging challenges in order to achieve their goals. The students, faculty, and other staff are the benchmark of an institution's image. Besides regular academic support, the students are provided with other facilities such as sports & games, cafeteria, accommodation, and library for excelling Dean academics for their holistic development.

IQAC provides a pleasant ambience to the students for developing their skills in both academics and co-curricular and extracurricular activities. The feedback on Infrastructure facilities is collected from all the students.

The students give feedback in the range of 1 to 5 for each parameter in the feedback form. The survey report is collected from the students. Analysis is done by IQAC at the institutional level and it is submitted to Principal for review and suggestions. Based on the feedback report, the management prioritizes and make the decision and improving various facilities. The action taken report is prepared by IQAC after the corrective actions are taken.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

**6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities ( For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives )**

**Response:**

#### **1. Pedagogical Techniques Introduced in Teaching Learning Process**

Following teaching-learning methods are implemented by IQAC.

- Mind maps have been developed for many of the advanced topics for easy understanding of complex engineering concepts.
- The concept of flipped classrooms was introduced to promote flexible learning among the students and to facilitate increased engagement between students and faculty.

- JBIET imparts skills (Life & Professional Skills) to the students through Experiential Learning/ Activity Based Learning methodologies.
- Learning by doing is an education methodology, where the students are encouraged to formulate the problem, search viable options, develop the prototype, and test it to come to final solution.
- Activity method is a method of teaching through activity in which the students participate rigorously and bring about efficient learning experiences. Learning by doing is an imperative practice in successful learning.
- Study materials related to all department courses are made available online on Institution Website official web site [www.jbiet.edu.in](http://www.jbiet.edu.in).
- The students are encouraged to do the various online courses like NPTEL, edX, Coursera etc. to get acquainted to self-learning process.

## 2. Attainment of Program Outcomes and Course Outcomes

IQAC proposed, disseminated and implemented the following process for computing CO-PO attainment.

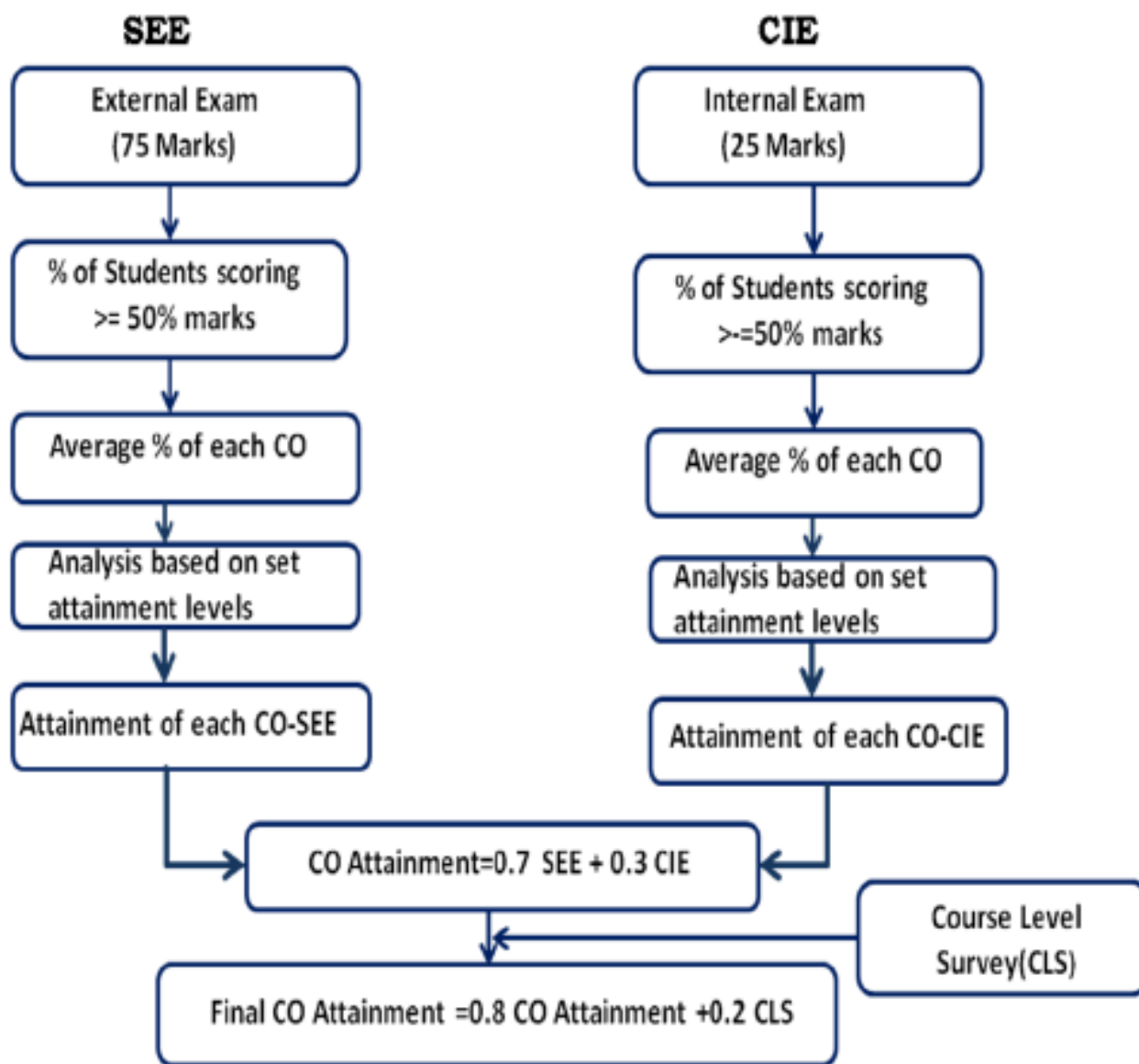
Initially attainments of Course Outcomes (COs) are computed using both direct and indirect methods. Attainments of Program Outcomes (POs) and Program Specific Outcomes (PSOs) are done from the attainment of COs through course and program articulation matrices. The level of attainment of POs, PSOs and COs are done through faculty course assessment report with thoroughly designed evaluation rubrics. This method helps in indicating the learning outcomes of the students, employability levels and further progression.

The Institution Reviews Learning Outcomes by Following CO-PO Attainment Process as a Part of Outcome Based Education.

**Attainment Procedure of COs:** It is done using direct method and indirect method. As a part of the direct method, CO attainment is computed using marks obtained by the students in Continuous Internal Examinations (CIE) and Semester End Examinations (SEE). Weightages of 30% and 70% are assigned to CIE and SEE respectively to compute direct CO attainment. Course end survey is conducted for each course and indirect attainment of COs is computed. Now 80% and 20% weightages are assigned to direct and indirect CO attainment to calculate total attainment of COs for each course.

**Attainment Procedure of POs/PSOs:** Attainment of POs/PSOs is done from the attainment of COs. From the attainment of CO and course articulation matrix, direct PO/PSO attainment is done for each course. By using program articulation matrix and PO/PSO attainment of each course, direct PO/PSO attainment for the program is calculated. Indirect attainment of POs/PSOs is done using program exit survey, employer survey and alumni survey. Final attainment of PO/PSO is done by assigning weightages of 80% and 20% to direct and indirect attainments respectively.

Process flow diagram of computing CO and PO/PSO attainment and a sample copy of final attainment of COs and POs/PSOs are attached.



File Description	Document
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

### 6.5.3 Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements
2. Collaborative quality initiatives with other institution(s)

**3.Participation in NIRF****4.Any other quality audit recognized by state, national or international agencies (ISO Certification)****Response:** All of the above

File Description	Document
Upload e-copies of the accreditations and certifications	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>
Paste web link of Annual reports of Institution	<a href="#">View Document</a>



## Criterion 7 - Institutional Values and Best Practices

### 7.1 Institutional Values and Social Responsibilities

#### 7.1.1 Measures initiated by the Institution for the promotion of gender equity during the last five years.

##### Response:

To take care of Gender Equality JBIET has established Women Empowerment Cell, which looks after any such cases at JBIET.

JBIET is having 11 Departments and 3 of these Departments are headed by Ladies. Number of the Dean positions were handled by lady faculties of JBIET. During the Year 2017-2019, the Principal-ship of JBIET was handled by a lady Professor, Dr.Towheed Sultana. It commitment towards Gender Equality, that Chairperson of JB Educational Society which has promoted JBIET, is also a Woman, Mrs. J. Vasumathi Devi.

JBIET has introduced a course of Gender Sensitization in its syllabus to bring the sense of Gender equality among its students.

##### Safety and security

- JBIET campus is furnished with 24 X 7 CC cameras to monitor the safety and security of all the inmates in general and ladies especially in important and critical locations.
- Separate toilets for ladies and common rooms for girl students are available.
- Security guards are arranged at prominent locations in the buildings and in campus.
- Movement of visitors is closely monitored.
- Display of emergency contact numbers of the designated personal are made available in prime locations of the campus.
- Thorough monitoring and security surveillance is provided till the last women employee/ girl student leaves the campus.
- Transport facility for women staff leaving the campus in late hours.
- Awareness on the policy of sexual harassment, gender discrimination and the compliant process.

## Counselling

- College arranges counselling sessions for all students regularly.
- Each faculty members are assigned 15-20 students for mentoring and counselling.
- Faculty mentors meet the students allotted to them and they interact with them regarding academics, attendance, carrier guidance, placement, self -learning and any other personal issues.
- In association to our sister concern Bhaskar Medical College, JBIET provides regular counselling to its students related to any kind of mental issues.
- Abnormal behavioural kind of students are identified from time to time and such students are referred to psychological counselling.
- In association with 'Girls Foundation', founded by Mrs. Universe Integrity Ms. Rohini Naidu, JBIET arranges special workshops for girl students regarding health and hygiene.
- Women students are counselled periodically by the women faculty members on gender related problems.

## Common Rooms

JBIET has provided common rooms separately for Boys and girls with essential facilities like: tables, chairs, cot, bed, dustbins, first-aid kit etc.

## Other relevant information

- Each class has a girl student as a class representative.
- The fair presentation of girl students and women faculty in all curricular, co-curricular and extra-curricular programs.
- Admissions are made following the rule of reservation which includes 33% of seats for girl students.
- 30% of women faculty members are available.
- The senior lady faculty members represent women empowerment cell undertake the responsibilities of counselling the lady faculty and girl students.
- The college celebrates events like: International Women's Day and other days of significance.
- All the Departments conduct awareness and empowerment programs on gender issues.

File Description	Document
Specific facilities provided for women in terms of: a.Safety and security b.Counselling c.Common Rooms d. Day care center for young children e. Any other relevant information	<a href="#">View Document</a>
Annual gender sensitization action plan	<a href="#">View Document</a>

**7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures**

1. Solar energy
2. Biogas plant
3. Wheeling to the Grid
4. Sensor-based energy conservation
5. Use of LED bulbs/ power efficient equipment

**Response:** A. 4 or All of the above

File Description	Document
Geotagged Photographs	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

**7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)**

- Solid waste management
- Liquid waste management
- Biomedical waste management
- E-waste management
- Waste recycling system
- Hazardous chemicals and radioactive waste management

**Response:**

The Institution has designed methods for the management of waste generated on the campus using the basic waste management strategy of 3R's: Reduce, Reuse and Recycle. Various facilities available on the campus to handle different types of wastes are presented below.

**Solid waste management**

JBIET practices segregation of solid waste into dry waste and wet waste. Dustbins are placed separately for dry waste and wet waste in the campus. The dry waste consists of papers, plastic, dry leaves etc. and are collected separately. Recyclable materials such as plastic, glass, steel, steel cans are segregated under dry condition. The construction waste generated in the form of broken bricks, concrete is used in land filling on the campus. The wet waste like food waste, vegetable waste etc. are disposed to the vendors. Food waste generated in canteens and hostel messes are disposed to piggery. Canteen waste collected from washrooms and hostels is given to a biomedical waste agency having regular pick up from the Institution. Required number of dust bins at each building and along the roadside is provided.

**Liquid waste management**

Liquid waste that is generated in the institute falls into the following categories.

1. Septic tank effluents from various sanitary blocks, water used for washing and cleaning of utensils etc. from canteen
2. Wastewater from RO plant

The waste water generated from the sanitary facilities is disposed-off into septic tanks located at different places on the campus and their effluents combined with canteen waste water is used for gardening, watering trees etc. RO plant wastewater is diluted with canteen wastewater and used for gardening, watering trees etc.

All the waste water collected at various other points is sent to sewage treatment plant for further treatment.

### **Biomedical waste management**

JBIET generates very little Biomedical waste and it is disposed in accordance with the guidelines of Telangana State Government.

### **E-waste management**

E-waste or electronic waste is created when an electronic product is discarded after the end of its useful life. E-waste mainly includes obsolete electronic devices, such as computer systems, servers, monitors, printers, scanners, copiers, calculators, fax machines, battery cells etc. The Institution disposes its E-Waste through the agencies that are authorized by the government of Telangana.

### **Waste recycling system**

The Institution has a sewage treatment plant with a capacity of 1 lakh litre/ day, which takes care of its sewage water generated on the campus. It treats the waste water and produces acceptable quality water, which has been used for gardening at campus. Moreover, rain water collected from roofs of different buildings is sent to water harvesting pits to recharge the ground water table.

### **Hazardous chemicals and radioactive waste management**

Though no radioactive is generated on the campus, the institution generated very little chemical waste from the laboratories such as Chemistry, and Environmental Engineering lab. As the concentration and quantity of such waste is low, the chemical waste is general mixed with other liquid waste and sent to sewage treatment plan for further processing.

File Description	Document
Relevant documents like agreements/MoUs with Government and other approved agencies	<a href="#">View Document</a>
Geotagged photographs of the facilities	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

**7.1.4 Water conservation facilities available in the Institution:**

1. Rain water harvesting
2. Borewell /Open well recharge
3. Construction of tanks and bunds
4. Waste water recycling
5. Maintenance of water bodies and distribution system in the campus

**Response:** A. Any 4 or all of the above

File Description	Document
Geotagged photographs / videos of the facilities	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>
Link for any additional information	<a href="#">View Document</a>

**7.1.5 Green campus initiatives include:**

1. Restricted entry of automobiles
2. Use of Bicycles/ Battery powered vehicles
3. Pedestrian Friendly pathways
4. Ban on use of Plastic
5. Landscaping with trees and plants

**Response:** Any 4 or All of the above

File Description	Document
Various policy documents / decisions circulated for implementation	<a href="#">View Document</a>
Geotagged photos / videos of the facilities	<a href="#">View Document</a>
Any other relevant documents	<a href="#">View Document</a>

**7.1.6 Quality audits on environment and energy regularly undertaken by the Institution and any awards received for such green campus initiatives:**

- 1.Green audit
- 2.Energy audit
- 3.Environment audit
- 4.Clean and green campus recognitions / awards
- 5.Beyond the campus environmental promotion activities

**Response:** A. Any 4 or all of the above

File Description	Document
Reports on environment and energy audits submitted by the auditing agency	<a href="#">View Document</a>
Certification by the auditing agency	<a href="#">View Document</a>
Certificates of the awards received	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

#### 7.1.7 The Institution has disabled-friendly, barrier free environment

- 1.Built environment with ramps/lifts for easy access to classrooms.
- 2.Disabled-friendly washrooms
- 3.Signage including tactile path, lights, display boards and signposts
- 4.Assistive technology and facilities for persons with disabilities ( Divyangjan) accessible website, screen-reading software, mechanized equipment
- 5.Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading

**Response:** A. Any 4 or all of the above

File Description	Document
Policy documents and information brochures on the support to be provided	<a href="#">View Document</a>
Geotagged photographs / videos of the facilities	<a href="#">View Document</a>
Details of the Software procured for providing the assistance	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

#### 7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words).

**Response:**

JBIET is located at Hyderabad, which is capital city of Telangana. Hyderabad is famous for regional,

cultural, linguistic, communal, ethical and religious diversities. This is equally represented in the composition of JBIET faculty members and students. Representative from every region, religion, language, and caste is available in JBIET.

- JBIET provides an inclusive environment for everyone with tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities.
- Every year, to promote harmony towards each other, different sports and cultural activities are conducted.
- Regional festivals like: Dusshera, Vinayaka Chaturthi, Diwali, Eid, Guru Purnima, Christmas, Bathukamma festival are celebrated in the college. In addition to this, traditional day is also being conducted in the college.
- The Institute has code of ethics for students, and a separate code of ethics for teachers and staff.
- JBIET is having more than 30% of its faculty members coming from minorities and 60% of its students also belong to minorities, economically weaker sections and socially backward classes. JBIET, by its norms, regulation, and culture does not believe in any kind of discrimination among its student and faculty members based on race, region, religion, caste, economic class and colour.
- This Institute takes utmost effort to ensure equal opportunity and harmonious co-existence for all its stake holders. It does not discriminate, based on any of the above mentioned criteria in terms of jobs, promotions, scholarships or other incentives.
- JBIET celebrates all secular festivals and organizes various events to celebrate any social moment of joy. As a policy, to ensure equality, JBIET does not promote any worship place related to any community inside the campus. It adheres to the norm of true secular institution to avoid religious gatherings and festivities. It ensures, that no one can Hijack social activity agenda due to its numeric superiority.
- To promote India centric secular view, JBIET celebrates events like, Independence Day, Republic Day, Engineers Day, Environment Day, Teachers Day, women's Day, Yoga Day etc. At JBIET, we take annual pledge to promote equality, harmony and co-existence among the society in general and JBIET in particular.

File Description	Document
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

**7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).**

**Response:****Sensitization of Students**

JB IET considers, that Constitutional obligations are very important for a person's overall growth and the growth of the Society. To serve this purpose, two new subjects were included in the UG & PG syllabus of JB IET (R18 regulation onwards). These subjects are Ethics and Indian Constitution. Where Ethics provides overall framework for human being to survive, work and co-exist in this world, in general, Indian constitution provides specific implementation of it within Indian Context, giving important guidelines, human rights, duties, principal of equality and secularism. JB IET undertakes, different initiatives by organizing various activities like to sensitize students and employees to the constitutional Obligations, Values, Rights, Duties and responsibilities of the citizens.

JB IET is part of JB Educational Society, which has a law Institution named "Bhaskar Law College". With the help of this Sister Concern, JB IET organizes several discourses on various important constitutional topics affecting social and National fabric for both students and faculty.

In addition to this, JB IET regularly organizes Webinars, Seminars, Guest Lectures on important days like, "Dr. Ambedkar Jayanti", "Constitution Day" to inform students & faculty members about uniqueness of Indian constitution and safeguards which, it provides to every Indian Citizen.

On the Day of Republic Day & Independence Day, Students presents their view on constitution as the part of Elocution Competition, which helps them to form the appreciation about the constitution.

Students of JB IET go around in neighbouring villages, which are adopted by the Institution, to spread the message enshrined in constitution, especially to fight against untouchability & caste divisions. They propagate secularism among the villages to form a stronger and inclusive India. JB IET students participate in the process of general election, which is 'the spirit of Indian Constitution in action' with their personal IT resources for the webcasting of various polling booths and identification of voters based on biometric.

**Sensitization of Employees**



Faculty members, during their joining and subsequent faculty development programs are sensitized to follow the spirit of constitution by acknowledging the equality of every Indian citizen, irrespective of their caste, creed, religion and gender. They are specially sensitized to be very sensitive about the rights and privileges of *Divyangjan* (Differently abled citizens), under privileged classes and minorities.

This sensitization is not one-time affair and several refresher courses, guest lectures and seminars are organized to re-stress it among the faculty members and supporting staffs.

Ragging is a crime against humanity and violates Indian Constitution in terms of spirit and conduct. JBIET is a ragging free campus and takes all the steps to fulfil its obligation of keeping the campus ragging free, which is one of its constitutional responsibilities.

Indian constitution is unique in the sense that it gives importance of conservation of environment and natural resources. JBIET keeps it close to its heart and maintains clean, green and smart campus for which it was repeatedly appreciated by AICTE & MHRD.

File Description	Document
• Details of activities that inculcate values; necessary to render students in to responsible citizens	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

**7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.**

- 1. The Code of Conduct is displayed on the website**
- 2. There is a committee to monitor adherence to the Code of Conduct**
- 3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff**
- 4. Annual awareness programmes on Code of Conduct are organized**

**Response:** A. All of the above

File Description	Document
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	<a href="#">View Document</a>
Code of ethics policy document	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

#### **7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).**

##### **Response:**

JBIET is very active in fulfilment of its social, cultural & humanitarian obligations. It organizes several events to commemorate these ideas by means of events and festivals. Following are the key commemorative days, events & festivals are organized in JBIET annually:

1. Republic Day on 26th January.
2. Sustainable Development Day on 4th March.
3. International Woman's Day on 8th March.
4. World Water Day on 22nd March.
5. World Book Day on 23rd April.
6. National Technology Day on 11th May.
7. Telangana State formation Day on 2nd June.
8. World Environment Day on 5th June.
9. Independence Day on 15th August.
10. Teachers Day on 5th September.
11. Engineers Day on 15th September.
12. Faraday's Day on 22nd September.
13. Constitution Day on 26th November.
14. Gandhi Jayanti on 2nd October.

On each Day of event mentioned above seminar, giving the reasons and outcome derived which led to commemorate the Day is remembered by speakers. On some occasions, essay competition, elocutions and debates are organized. All the events are organized every year and the same is valid for the last 5 years.

File Description	Document
Geotagged photographs of some of the events	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>
Annual report of the celebrations and commemorative events for the last five years	<a href="#">View Document</a>

## 7.2 Best Practices

**7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.**

**Response:**

**1.Title of the Practice:** 3600 Student Capacity Building for Enhanced Employability and Lifelong Learning.

The practice of **3600 Student Capacity Building for Enhanced Employability and Lifelong Learning** has been one of the top priorities in J B Institute of Engineering and Technology.

### 2.Objectives of the Practice

Objectives of the practise

- To help the students acquire employability skills.
- To enhance employability skills to practical approach.
- To apply technical knowledge in promoting employability skills.
- To create interest among the students in lifelong learning.
- To develop essential life skills.
- To create a sense of passion to achieve personal and professional goals.

### 3.The Context

According to recent survey, the majority of engineering graduates remain unemployed despite of possessing good knowledge.

The essence of survey is that, there is a huge gap between acquisition of knowledge and application of knowledge. The application of knowledge requires skill and attitude which are unfortunately low among engineering graduates. In other words, today's engineering graduates are more knowledgeable and less skilful. Hence, there is a need to train the students in employability and lifelong learning.

To address the above context, JBIET approached industry partners like: TCS, Infosys, and Wipro etc. and sought some suggestions/ guidelines on design and development of curriculum. The curriculum has been designed to promote soft skills, address social issues, bridge the gap between knowledge and skill, and develop mastery in communication to students. The complete curriculum and the proper training

help the students to become potential.

It comprises of four major attributes:

1. Soft skills
2. Employability skills
3. Technical skills
4. Lifelong learning

#### **4. The Practice**

##### **Step 1: The Identification of Target Beneficiaries**

The target beneficiaries are the students of B. Tech programme.

##### **Step 2: Need Assessment**

Need assessment is done via training and need analysis where the students are given certain real-life situations, case studies to reflect upon and later on, their views/ ideas are judged.

##### **Step 3: Design and Development of Curriculum**

In design and development of curriculum, valuable inputs/ suggestions are taken from software industries like: Infosys, TCS, Wipro, and academic institutions like: ICT Academy. A series of activities are included to involve students in the process of learning by doing.

##### **Step 4: Implementation**

ICT Academy helps in training the faculty of JBIET, who in turn train the students in employability skills. The sessions are planned for a semester and scheduled in regular time table as a lab subject. The major part of implementation is activity based, where the students talk time is more and the faculty trainers talk time is less. The faculty trainers act as facilitator. Curriculum is designed to provide learning by gamification.

##### **Step 5: Evaluation**

The students are evaluated on their performance in diagnostic, formative and summative tests.

##### **1. Evidence of Success**

The practice of “3600 Student Capacity Building for Enhanced Employability and Lifelong Learning” has been successful since its inception in 2018-19. To mention some major evidences of success:

1. The students have been pursuing the course since 2018 and appreciating its significance. The

student's feedback on the course is always around 95%.

2. The students are able to show significant performance in placement interviews and secure higher number of job opportunities.
3. The practice has become an added advantage to the students who aim to pursue higher education in India and abroad.
4. The practice helps the students to become successful entrepreneurs and innovators.

### 1. Problems Encountered and Resources Required

#### Problems encountered:

1. Time: The problem of the course implementation is time. Since, the practice is based on activities, and case studies, it consumes more time than the other courses.
2. Participation: A few students hesitate to participate in activities. The faculty trainers had to spare their time on motivating them.

#### Resources required:

1. Trainers: Skilful trainers are required for successful implementation of the practice.
2. Labs: At least four labs are required for engaging students in activities to ensure better learning.
3. Industry experts: the help of industry experts is essential to update the curriculum.

#### Notes:

As the course is beneficial for the students, the institute continues its commitment in promoting the practice 3600Student Capacity Building for Enhanced Employability and Lifelong Learning. The members of faculty are willing to upgrade their knowledge and skills to implement the practice. The design and development of curriculum will be updated based on students, members of faculty and other stake holders like: Infosys, TCS, Wipro and ICT Academy's feedback.

### Best Practice 2

#### 1. Title of the Practice: Holistic Faculty Development through Intensive Teaching Workshop

**Holistic Faculty Development through Intensive Teaching Workshop** is an important practice to refresh, enhance and upgrade the teaching-learning practices of the faculty.

#### 2. Objectives of the Practice

- To train the members of faculty on pedagogical teaching and learning.
- To help the faculty on the use of modern concepts of teaching.
- To promote outcome-based education in teaching and learning.
- To impart the importance of using ICT tools in teaching.
- To educate the faculty on new innovations and practices of teaching.

- To enhance domain-based and research-based training through workshop.
- To attain better performance in teaching.

### 3.The Context

Generally, the institute organizes FDP, which are regular and routine in nature are conducted for three to twenty days depending upon topic, availability of faculty and time. For faculty members, who cannot afford to attend FDPs, conferences, seminars, and workshops organized by other institutes of faraway places, 'Holistic Faculty Development through Intensive Teaching Workshop is an alternative. It was proposed that the training should be at least for 3 months in a year.

### 4.The Practice

Holistic Faculty Development through Intensive Teaching Workshop is a regular practice as per the following procedure.

1. Faculty members who are not good at teaching and not able to satisfy students results will be identified by the concerned HoDs and they are directed to attend the workshop. Many faculty members out of their wish take part in the workshop to improve their teaching skills. Similarly, many senior faculty members apply to workshop to revise and improve their teaching practice.
2. To conduct the workshop, one organizing committee is formed consisting of one Professor, one Associate Professor, one Assistant Professor, One Lady Faculty members and one faculty belong to SC/ST group.
3. The committee evaluates all the applications of workshop and finalize 15 candidates to attend 3 months' ITW.
4. ITW coordination panel appoints 2 permanent judges.
  1. To assess language and confidence.
  2. To monitor adherence to correct teaching learning process.

There will be 3rd judge who will be a subject expert. This judge will be selected from a panel of subject experts identified by coordination team. Coordination team will identify 13 guest teachers among faculty members who will deliver keynote address on various innovative teaching learning methods.

1. Everyday a guest lecture is delivered for 30 minutes, which will be followed by presentations of 3 participants, each presentation for 10 minutes. This presentation will be evaluated by expert committee, which will give them suggestions to improve further in the delivery performance. This process will be repeated for 13 weeks and participants will be asked to assess their own improvement during feedback process.
2. A panel of 3 judges analyse the presentation given by participants and suggest measure to improve. The three judges are expert in English language, subject area and teaching learning practices.

### 5.Evidence of Success

The feedback obtained from

1. Participants,
2. The Judges

3. Overall performance appraisal by the workshop coordinators,
4. Feedback of the students on the faculty members before and after attending the workshop, proved the workshop is a successful program.

The entire feedback given by the judges, expert faculty, and the students is a good measure of the efficacy of the workshop process. In general, faculty members were found having 15-20% improvement in their student feedback post attending the workshop. Their result was also improved by 8-15%.

The workshop has become very popular among faculty members, as they do not have to go out to attend FDPs, conferences, seminars, workshops on leave. Instead, they can stay on campus, participate in workshop and upgrade their knowledge and skills.

### **1. Problems Encountered and Resources Required**

#### **Problems Encountered:**

1. Major problem encountered initially in the process of conducting workshop, is the stigma among the candidates attending the workshop. Initially it was tough to identify the faculty who to be trained.
2. Identifying the experienced members of guest faculty is a problem.

#### **Resources Required:**

1. Access to technology enabled tools.
2. Identifying the faculty experts.

#### **Notes:**

Holistic Faculty Development through Intensive Teaching Workshop has been found to be the successful programme.

Several members of faculty enhanced their knowledge and refined their skills in Teaching and Learning. The institute is aiming to find innovative methods and materials to promote the programme to the next level/ online.

<b>File Description</b>	<b>Document</b>
Best practices in the Institutional web site	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

## **7.3 Institutional Distinctiveness**

### **7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words**

**Response:****Distinctiveness:** Academic Excellence through Societal Consciousness

J B Institute of Engineering and Technology has been achieving academic excellence through student outcomes and faculty contributions.

The institution in its crest for excellence has been continuously interacting with industry, research organisations, and premier academic institutions to provide quality engineering education.

Besides this, the role of an educational institution for societal development has been in the top of the agenda of the institution.

The institute is socially responsible institution and it is having pro-active policy in terms of social outreach camps, which makes it distinct among other institution in the area. JBIET was established with an objective of not only providing quality education at low cost but up lifting of its neighbouring community socially and empowering them with the help of technology and knowledge assistance.

Since 2007, JBIET has been adopting its' neighbouring villages like: *Surangal, Andapur, Kanakamamidi, Murthujaguda, Bakaram* and doing the task of repairing schools and providing academic support by utilising the services of JBIET students and faculty members. With the help of management and a few software companies which are employer of JBIET students, it envisaged a plan of field distribution of books, stationary items, school uniforms and shoes to all students of adopted villages. Whenever JBIET upgraded its computer infrastructure, it diverted its existing computer to rural schools of adopted villages.

With the help of Vivekananda Institute of Human Excellence (VIHE), a part of Ramakrishna Mission, JBIET started campaigning in nearby villages for 'Clean, Green & Sanitized village area'. With its sister concern, Bhaskar Medical College, it organizes primary health check-up camps, eye check-up camps and blood donation Camps. JBIET conducted few oral, dental health care camp with the help of sister college Balaji Dental college in the villages of *Andapur* and *Kanakamamidi*. The NSS of JBIET conducts many events in adopted villages to promote toilets as part of Prime Minister Scheme. Many rural schools are not having enough faculty to teach English and Mathematics. JBIET branch of NGO 'Nirman', provides voluntary teacher services in such schools of four villages like: *Surangal, Kanakamamidi, Amdapur* and *Bakaram*.

During the time of election, JBIET students campaigned nearby areas to sensitize people on casting their votes for successful democracy. JBIET students volunteered to attend the election booths with their own laptop, camera and other hardware to monitor electioneering process. This contribution of JBIET was recognized by **Unnat Bharat Abhiyan**, which imparted a grant of Rs 50000/- to JBIET for the purpose of collecting feedback from rural areas. JBIET contributions in the area of outreach, was appreciated by Sarpanches of all neighbouring villages, state Government and **Unnat Bharat Abhiyan** coordinator.

As an Institute, JBIET provided Introduction to Computing and Computer applications lessons to nearby villages. It provided its own vehicle to collect students from neighbouring villages and introduced them to various Engineering labs. This effort was appreciated by villagers and students.

JBIET is having policy to employ local people, especially the youth for the employment in Group C & Group D services. It has employed over hundred and fifty local people in its security and housekeeping



jobs, providing them regular employment near to their habitat. JBIET especially employ physically disabled youth from local area and give them respectable living.

JBIET outreach is not limited to the surrounding areas, it has helped the people of Kerala, when they suffered severe flood in 2018, by sending a full truck of relief material, people and money as assistance during this calamity. When COVID struck India, in 2020, JBIET donated Rs 50,00,000/-, to PM Care fund and Chief Minister relief fund. Earlier in 2008-2014, JBIET constantly supported to CM relief fund, by donating regularly in case of any need.

JBIET supports youth development program, in collaboration with Vivekananda Institute of Human Excellence (VIHE) and Chinna Jeeyar Swami trust. It has given logistic support to collect students from all over Hyderabad for many social awareness programs organized by these two institutions. In collaboration with these institutions, JBIET organizes several Yoga, Meditation and positive Life Style camps. In addition to this JBIET supported several organisations for half marathon, marathon to promote various social causes.

JBIET is having its own philanthropic organization, named “Late Sri J Bhaskar Rao charitable Trust”. This trust helps needy people by providing them financial, social, medical and psychological assistance.

Protection of Environment is accorded great value by JBIET. JBIET, not only taken several measures to protect environment, by installing STP, water conserving pits, solar plants, but it has gone even further by actively participating in massive plantation drives in its campus and neighbouring villages. The institutes’ efforts were appreciated by State Govt. under its *Haritha Haram* program. JBIET received recognition from AICTE MHRD, by establishing a clean, green and smart campus.

The institute has shown its commitment for fighting the voice of addiction repeatedly with support of local police and administrative agencies. It has created comprehensive program to warn students against any kind of addiction related to smoking, drinking and drugs. To counter the drug addiction, JBIET participated in various social activities like organizing marathon runs, poster creation and student to student contact program. This program yielded excellent outcome and JBIET was appreciated by Nodal Police and Administrative agencies.

To sum up, J. B. Institute Engineering and Technology takes a lot of pride and responsibility in conducting several societal activities through which the students get to know the real world. The task of societal activities has become an important learning opportunity for the students to see the problems of society and solve them with engineering aptitude. Thus, JBIET is not just an institution to achieve learning outcomes of the students through curriculum but also a place where students work closely with the society for learning by practice for holistic development.

File Description	Document
Any other relevant information	<a href="#">View Document</a>
Appropriate web in the Institutional website	<a href="#">View Document</a>

## 5. CONCLUSION

---

### Additional Information :

#### Additional Information:

J. B. Institute of Engineering and Technology aims to create a policy of quality assurance to address, monitor and evaluate the academics offered to the students. Thus, promoting effective teaching practices for the benefit of students and making the college a centre of excellence for engineering. The institute implements distinctive practices, successful student engagement for holistic development, research and development, societal consciousness.

#### Significant Features:

- J. B. Institute of Engineering & Technology, augmented its research facilities for the benefit of faculty and students. In the last five years. These efforts are fructified with the filing of **19 patents** and out of which **four of them are granted**.
- Provides **free insurance** for all its students (premium paid by the management)
- Introduced **institutional medals** for meritorious students and they are awarded on the graduation day every year.
- On campus **Younify Radio**.
- Faculty secured rank among **Top1% in NPTEL**
- A student won **football club contract** of Rs.6 Lakhs/Season
- Established a **Local Chapter** of NPTEL
- Received **Best Complementary Award** in International Youth Exchange Programme between India & Bangladesh
- Organized the largest **Men's Health Awareness Programme** with total participants of 487 - **Guinness World Record Certificate**
- Secured a position in **Band-B (26-50)** of Atal Ranking of Institutions and Innovation Achievements (ARIIA) - 2020
- **Microsoft Platinum Membership** was accorded. Only 10% of the institutions in Telangana accorded this membership.
- Recognized as **Nodal Resource Centre** for Spoken Tutorial, IIT Bombay
- Organized regular co-curricular events to supplement the curriculum such as **guest and expert lectures** from the best in **industry and academia**.

### Concluding Remarks :

JBiet has been striving continuously to enhance quality in all facets so that it stands tall in the top league of institutions in the state. The management has spent wisely during last five years not only in expanding and

enhancing academic and other infrastructure facilities but also developing intellectual and quality human resources for the nation.

The vision of the management, commitment of the teachers and brilliance of the students has brought laurels to the institution. The institution has achieved quality benchmarks such as institutional autonomy from UGC, national accreditation by NBA and NAAC with high merit.

The Institute was ranked **9th and 10th** in Telangana Private Engineering Institutions in Research Category and overall performance respectively. Furthermore, JBIET was Ranked **59th** and **69th** among top 100 Private Engineering Institutes and all Engineering Institutes in India respectively. In addition, the Institute was recognised as one of the **Best Engineering Colleges** of Telangana in *Career 360*.

Above all, the institution is blessed with lots of trust of the stakeholders, resulting in steady growth year after year. The self-study report has been drafted in line with the manual covering all the criteria and aspects laid down by NAAC.

Given the credentials and the vision, the institution is pleased to submit filled-in application to National Assessment and Accreditation Council for the grant of accreditation with a deserving grade.

#### **Future Goals:**

- Establish Advanced Digital Content Production and Delivery Center
- Aiming for Deemed to be University
- Establish Incubation Centre and Research and Innovation Center
- To Secure Decent NIRF / ARIIA Ranking
- Develop a regional center for extension and social responsibility