



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

JOGINPALLY B.R.ENGINEERING COLLEGE

BHASKAR NAGAR, YENKAPALLY(V), MOINABAD(M), RANGA REDDY(DT)

500075

www.jbrec.edu.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

(Draft)

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Joginpally B.R. Engineering College (JBREC) was established in 2002 with the lofty aim of providing quality professional education and meeting the expectations of the student community in Telangana. The institution is approved by AICTE and affiliated to Jawaharlal Nehru Technological University Hyderabad (JNTUH), Hyderabad, and certified by ISO. The college is situated in a rural area and provides educational opportunities to the students of this area. JBREC has a team of highly qualified, well-experienced, and dedicated faculty. The Institute is known for creating, sustaining, and promoting a student centric Teaching-Learning environment. It has an excellent placement record over the years. After completion of B.Tech., most of our students are pursuing higher education in reputed institutions of India and abroad. They have been excelling in curricular and extra-curricular activities. The institute offers B. Tech. courses in CSE, IT, ECE, EEE, MECH, CSE (AI & ML), and M. Tech Courses in CSE, EEE, and MBA. The institute constantly strives for excellence through its Vision, Mission, and Goals to excel in Technical Education and Research. The institution has the honour of being “4 STAR” grade by Innovation cell, Ministry of Higher Education, Government of India.

The institution is empowered with excellent infrastructure facilities such as well-furnished ICT enabled classrooms, smart classrooms, well-equipped laboratories, conference halls, seminar halls, splendid library with 54,887 books and 6,166 titles, subscription of many National and International Journals, and access to online learning courses such as IEEE, NPTEL, Spoken Tutorial, and Coursera, Wi-Fi Net connectivity, Heath Centre, hygienic RO water purifier system, hostels, canteen, Gymnasium, Yoga Centre, Games (Indoor & Outdoor), playgrounds with sports equipment facilities, etc.

Vision

To be a global leader in education and research in Engineering and Management.

Mission

- To impart high quality professional education to mould the learners into globally competitive who are professionally deft, intellectually adept and socially responsible.
- To collaborate with industries and research organizations and excel in the emerging areas of research.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

1. The institution has a holistic view of the educational system as they are associated with different educational institutions.
2. Considered by students fraternity among the top 20 colleges out of 200 plus colleges in the state of Telangana.
3. Excellent Research and Development activity and a good number of papers published by faculty and

students.

4. One of the most sought-after campuses in the region by the many companies for campus placements.
5. Well-established laboratories with adequate hardware and software.
6. Wi-Fi enabled campus.
7. Good teamwork of the faculty and staff.
8. Enrichment of Curriculum through add-on courses beyond the syllabus.
9. The institution provides welfare measures to staff and students by adopting ESI, PF, and Insurance, cashless medical facilities to the family dependents.
10. Free Medical Facility available to the staff, faculty, and students in the sister concern General hospital cum Medical College, Dental and Pharmacy college.

Institutional Weakness

1. Do not have the liberty to make changes in curriculum as being an affiliated college.
2. Funded research by Government and other leading Research and Development agencies is less than expected.
3. Industry Institute Interaction for internships, live projects, consultancy, and joint research is less.
4. Placements in core engineering companies are less.

Institutional Opportunity

1. Enhancement/ encouraging for Entrepreneurship among Students.
2. Engineering Consultancy Services to Local companies of Hyderabad.
3. Keeping pace with the latest developments and developing students into a global workforce.
4. The Institution is privileged to apply for the UGC Autonomous status based on the results of NAAC.

Institutional Challenge

1. Retaining qualified and passionate faculty who can contribute to the overall development of students.
2. Meeting the ever-changing requirements of industry and society as a whole.
3. Improving communication skills of students hailing from rural backgrounds who otherwise are good in technical competencies.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Joginpally B R Engineering College is affiliated to Jawaharlal Nehru Technological University Hyderabad (JNTUH), Hyderabad, and follows the curriculum prescribed by the university. JNTUH is a well-reputed technological university, revises the syllabus once in two years to conform to the industry demands. A choice-based credit system has been implemented in all the programs.

The institution ensures effective delivery of curriculum through lectures and lab sessions. Tutorial classes are arranged for the analytical courses. Experiential learning is promoted through Industrial Visits, Internships, Workshops, Mini Projects, and Major Projects.

As a part of curriculum enrichment, the institute offers various add-on courses. Students of Engineering and Management take part in life skill modules that specialize in communication, personal development, and management, aptitude, and employability skills. These are included as add-on courses in the curriculum in odd semesters. Life Skills enable students to be more competent in dealing with day-to-day challenges in a positive way. Subject-related add-on courses are designed by all the departments and offered in even semesters under Technical Skills. This helps students to update themselves with the latest technologies. College is associated with IIT-B Spoken Tutorial and CISCO to encourage students to complete certificate courses. Students are also encouraged to enroll for NPTEL. Campus Recruitments Training (CRT) is offered for all final year students to prepare them for placements.

The courses like Human Values and Professional Ethics, Gender Sensitization, Environmental Studies are part of the curriculum. These courses instill ethical values, create awareness among students towards gender issues and create environmental awareness and consciousness among the students to become responsible citizens. Students are also encouraged to participate in internships, NSS events, and extra-curricular activities that enhance their inherent creative abilities.

The feedback received from the students and stakeholders is carefully analyzed; discussed and appropriate actions are initiated at various bodies including the Department Academic Committee, College Academic Committee, and BoG, etc. The inputs provided by the stakeholders are considered with the highest priority and revive the functional mechanisms.

Teaching-learning and Evaluation

As per the guidelines of the university examination rules, the institute conducts the examinations at various levels adopting a transparent evaluation process. The teaching-learning, participative learning methods adopted for students. The continuous internal evaluation system is in practice in which the performance of the student is evaluated through various modes. Every student is taken care of in all respects by adopting the Mentor-Mentee system. Remedial classes are regularly conducted for slow learners to enhance their performance by a mentoring system. The attainment of POs, PSOs, and COs are measured through marks of internal examinations and end semester examinations. The student-staff ratio is always maintained as per the requirement of statutory bodies. The faculty selections are ratified by affiliating University and presently 100% of the teaching faculty in the institute is ratified by the university. The college encourages students and faculty members to keep themselves updated with the latest technologies.

Research, Innovations and Extension

JBREC has a Research and Development Cell to monitor and address the issues of research-related activities.

This cell encourages and guiding the faculty members to take up research activities. It creates a research culture among faculty members and students.

R&D cell creates a network with industries and research institutions for funding and cooperation. It guides the faculty and students for the publication of papers/articles and to publish quality research articles in peer-reviewed reputed journals.

The institute has MHRDs 'Institution's Innovation Council (IICs). It promotes innovation in the institutions through various modes leading to an innovation promotion eco-system in the campus and developing the cognitive ability of the students. We have received an appreciation from MoE's 'Institution's Innovation Council' by being awarded a "4 Star" rating for the year 2019-20.

Our college has been approved by MSME, Government of India as host Institute for Business Incubator under the scheme of "Entrepreneurial Development" for providing financial assistance up to 15 lakhs for business ideas of students after approval.

Entrepreneurship Development Cell has the objective to create awareness of opportunities and benefits on entrepreneurship for students and make their dream turn into a business through innovative products and develop an entrepreneurial culture. The activities of this cell include creating Awareness Programmes, encourage students and faculty to participate in innovation, idea presentation, and product development, and create and motivate a permanent network among the students and researchers for knowledge exchange and technology transfer.

The National Service Scheme (NSS) in the Institute actively involves the undergraduate students in voluntary social service activities for the socio-economic development of the area surrounding the institution as well as the Nation at large. They are strongly connected to the neighboring villages and the nation through an emotional and moral bonding under passion and dedication with which the students carry out the various social service initiatives.

Activities under NSS includes Blood Donation Camps, Health Camps, Tree plantation, World Environment Day, Earth Day, Women's Day, Awareness Programmes like AIDS Awareness, Right To Vote, Literacy Awareness, etc.,

Infrastructure and Learning Resources

The institution has a good state of art infrastructure to meet the educational requirements of students. The buildings of the college are built with 30,043 sq.m. with good ambiance and provide an ideal environment for learning. The college management has taken care of building the campus with all the amenities. Teaching and learning are conducted in a well-equipped facility. There are an adequate number of classrooms for each department along with e-class rooms and seminar halls. A common seminar hall with all public address facilities is established for a capacity of 300 seating. A conference room with an ICT facility is established to hold board meetings. The institute has a centralized computer centre to cater to the common works. The college library is a repository of knowledge. The library has 54,887 books besides the digital library from which students and faculty can access e-journals & e-books. The computer centre of the college is fully equipped with 300Mbps. The college has a good transport facility with several buses both for the students and staff from various corners of the city. The campus is under surveillance through Closed Circuit cameras installed at various locations.

Student Support and Progression

The students of Joginpally B. R. Engineering College are receiving scholarships from the state Government of Telangana under the Postmatric Scholarship scheme and as well some economically needy students receive the scholarship/freeships sanctioned by the JBR Educational Society.

Institute offers capacity-building schemes on soft Skills, Language, and Communication Skills for all the students. Institute provides various programs on yoga, Physical fitness, Health & Hygiene.

Career Guidance is provided by the institute to create awareness on career opportunities and provide training on the various competitive exams such as GATE, GRE, and TOEFL.

Institute is having a strong student grievance cell to look into the grievances lodged by the students. The grievance cell also looks into matters of sexual harassment and ragging activities.

Training and Placement Cell provides training in aptitude, technical and personal skills through the Campus Recruitment Training program and facilitates job placements to the students.

Institute has various committees comprising of representatives from Administration, Faculty and Students in various committees related to Administrative, Co-Curricular and Extra-Curricular Activities. Student activity clubs play a major role in creating interest in both technical and non-technical activities and talent promotion.

Institute conducts annual sports meet and cultural events for the students to make them more focused, build confidence in them, and also enables holistic development.

The institute is having a strong Alumni Association, which helps to raise the profile of the institute. The institute alumni promote the institute by providing information about internships, placement opportunities, and guest lectures on technical updates and career enhancement.

Governance, Leadership and Management

The Board of Governance is the highest body that monitors the progress and suggests activities for the growth and overall development of the institution. It has been constituted as per the guidelines of the affiliating University, JNTUH. Its main objective is to offer transparent and effective governance in building and developing the institution, taking the confidence of stakeholders. The Head of the Institution is responsible to the Governing Body for advice on strategic direction and the management of the institution.

Policies are prepared to stipulate recruitment, service, leave rules, administrative systems, and practices including grievance redressal procedures, etc. The Principal is responsible for the academic, general, and financial administration besides the all-round development of the institution, discipline among all the faculty, staff, and students, besides their welfare. The Principal will have meetings with HODs to discuss various Academic, Co, and Extra-Curricular Activities. Various activities such as FDPs, Conferences, seminars, workshops, Tech. fests, Annual day celebrations, Sports meet, etc, are held with the involvement of HODs, faculty, and students.

Institutional Values and Best Practices

JBREC has taken initiation for the promotion of gender equity and conducts programs. The curriculum has subjects like gender sensitization to address the issues of students. Safety and Security, Counselling, Common rooms for boys and girls, and a Daycare center for young children are also provided. The college has facilities alternate sources of energy and energy conservation measures such as solar energy, Wheeling to the Grid, Sensor-based energy conservation, and use of LED bulbs/ power-efficient equipment. The college has degradable and non-degradable management facilities. On this Campus Rainwater Harvesting, Bore-well recharge, Tanks and Bunds, Wastewater recycling, and maintenance of water bodies and system facilities are available. The Institute has restricted the entry of automobiles, use of bicycles/ battery-powered vehicles, pedestrian-friendly paths, ban on the use of plastic, and landscaping with trees and plants for greening the Campus. The College has built an environment with ramps/lifts, lights, display boards and signposts, assistive technology and facilities for persons with disabilities accessible website, screen-reading software, and mechanized equipment. The institute has taken many efforts to provide a very inclusive environment for the students and faculty members as well. Students of various departments participated in different technical events to show their talents. The Institution adopts the best practices like Empowerment of Students and Teachers through Synchronous and Asynchronous Instructions to utilize both methods to create a complete course that gives learners the greatest chance to succeed, to experience the engaging dynamic that occurs between teacher and student as well as student to student, to provide the Collaboration, Engagement, and Interactivity, and to Improve Learner Outcomes. The Institution has taken the initiative to interact with industries through the Industry Institute Interaction Cell that maintains professional relations with industries, conducts Intensive Teaching Workshop to enhance the teaching skills of newly recruited freshers, provides students with Insurance Policy for safety, and conducts many programs in and around the campus. Learner-Centric Pedagogy is integrated for the achievement of graduate attributes

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	JOGINPALLY B.R.ENGINEERING COLLEGE
Address	BHASKAR NAGAR, YENKAPALLY(V), MOINABAD(M), RANGA REDDY(DT)
City	Hyderabad
State	Telangana
Pin	500075
Website	www.jbrec.edu.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	V USHA SHREE	08413-235684	9704924777	040-23304036	principal@jbrec.edu.in
IQAC / CIQA coordinator	T V S ARUN MURTHY	08413-235051	9441220936	08413-235125	iqac@jbrec.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 of the college	01-01-2002

University to which the college is affiliated/ or which governs the college (if it is a constituent college)

State	University name	Document
Telangana	Jawaharlal Nehru Technological University	View Document

Details of UGC recognition

Under Section	Date	View Document
2f of UGC	27-03-2018	View Document
12B of UGC		

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	View Document	15-06-2020	12	

Details of autonomy

Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	Yes
If yes, has the College applied for availing the autonomous status?	No

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?	Yes
If yes, name of the agency	Innovation cell Ministry of Education Government of India
Date of recognition	22-09-2020

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), RANGA REDDY(DT)	Rural	10.21	30043

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,Mechanical Engineering	48	Intermediate	English	60	19
UG	BTech,Computer Science And Engineering	48	Intermediate	English	120	97
UG	BTech,Electronics And Communication Engineering	48	Intermediate	English	120	31
UG	BTech,Electrical And Electronics Engineering	48	Intermediate	English	60	19
UG	BTech,Information Technology	48	Intermediate	English	60	37
UG	BTech,Cse Artificial Intelligence And Machine Learning	48	Intermediate	English	60	9
PG	Mtech,Computer Science And Engineering	24	B.Tech.	English	18	3
PG	Mtech,Electrical And Electronics Engineering	24	B.Tech.	English	18	5
PG	MBA,Master Of Business Administration	24	Any Degree	English	60	31

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	4				33				77			
Recruited	3	1	0	4	31	2	0	33	42	35	0	77
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
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				44
Recruited	37	7	0	44
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				10
Recruited	9	1	0	10
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.	3	1	0	8	0	0	1	1	0	14
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	23	2	0	41	34	0	100

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
	0	0	0	0

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
UG	Male	572	0	0	0	572
	Female	486	0	0	0	486
	Others	0	0	0	0	0
PG	Male	48	0	0	0	48
	Female	41	0	0	0	41
	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	23	21	22	24
	Female	5	8	9	5
	Others	0	0	0	0
ST	Male	7	11	8	4
	Female	1	2	0	0
	Others	0	0	0	0
OBC	Male	103	119	88	110
	Female	27	48	43	31
	Others	0	0	0	0
General	Male	49	77	64	63
	Female	24	45	61	32
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		239	331	295	269

Extended Profile

1 Program

1.1

Number of courses offered by the Institution across all programs during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
424	364	381	384	373
File Description		Document		
Institutional data prescribed format		View Document		

1.2

Number of programs offered year-wise for last five years

2020-21	2019-20	2018-19	2017-18	2016-17
9	8	8	8	8

2 Students

2.1

Number of students year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
1147	1091	1108	1239	1395
File Description		Document		
Institutional data in prescribed format		View Document		

2.2

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

2020-21	2019-20	2018-19	2017-18	2016-17
288	288	288	270	228

File Description	Document
Institutional data in prescribed format	View Document

2.3

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

2020-21	2019-20	2018-19	2017-18	2016-17
334	248	358	389	432
File Description	Document			
Institutional data in prescribed format	View Document			

3 Teachers

3.1

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

2020-21	2019-20	2018-19	2017-18	2016-17
114	122	128	164	151
File Description	Document			
Institutional data in prescribed format	View Document			

3.2

Number of sanctioned posts year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
114	122	128	164	151
File Description	Document			
Institutional data in prescribed format	View Document			

4 Institution

4.1

Total number of classrooms and seminar halls

Response: 36

4.2

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

2020-21	2019-20	2018-19	2017-18	2016-17
338.43	289.98	369.91	470.12	484.47

4.3

Number of Computers

Response: 700

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The Institution ensures effective curriculum delivery through a well planned and documented process

Response:

Planning:

- Joginpally B R Engineering College is affiliated to Jawaharlal Nehru Technological University Hyderabad, Hyderabad (JNTUH) and follows the curriculum prescribed by the university. A well-structured academic calendar is prepared in alignment with the University's calendar for each semester by the College Academic Committee (CAC) headed by the Dean Academics with the due approval of the Head of the Institution. An Action Plan for conducting co-curricular, extra-curricular activities, add-on programs for curriculum enrichment are also included in the master calendar.
- As per the recommendations of Department Academic Committee (DAC), Head of the Department conducts meeting before commencement of the semester, in which subject allocation is done based on faculty competency, experience, feedback and performance of the previous batch students. He /She identify Course Coordinators and Class in-charges.
- Class wise time tables are prepared for effective planning and delivery of courses.
- Course Coordinator plans the course contents, takes care of the Course Objectives & Outcomes, Mapping COs with POs, preparation of lesson plan, developing the teaching materials and aids, unit wise class material, unit wise assignment questions, setting benchmark/targets for student performance at course level, identifying delivery modes, ascertaining the content beyond syllabus relevant to the course.
- Finally, Dean Academics verifies and validates the academic preparedness.

Curriculum Delivery:

- The institution ensures effective delivery of curriculum through lectures and lab sessions. Tutorial classes are arranged for the analytical courses.
- Curriculum enrichment is done through Student Centric learning methods like Industrial Visits, Guest Lectures, Internships, Workshops, Mini Projects, Major Projects, Value Added Courses (Life Skills, Campus Recruitment Training), Certificate Courses (Spoken tutorial, Cisco), use of new Tools/Simulators, Virtual Labs, MOOCS (NPTEL).

Monitoring:

- The Head of the Department along with class in-charges monitors the academic activities on a regular basis by verifying monthly syllabus coverage. Feedback is obtained from the students on aspects of teaching-learning twice in a semester and remedial measures are taken if necessary.
- The academic performance of students is continuously and meticulously monitored by continuous internal evaluation. Accordingly, remedial classes are scheduled and conducted for weak students

and slow learners.

- Institution has an effective mentoring system where the faculty member mentors a group of fifteen students. He/ She motivates, counsels and monitor the students, verifies their attendance, evaluates their academic performance, encourages their participation in co-curricular and extra-curricular activities and imparts professional ethics in them.
- As a part of faculty mentoring, Intensive Teaching Workshops (ITWs) are conducted for new faculty in semester breaks. Also, senior faculties are assigned to junior faculty as mentors.
- IQAC performs Academic Audit periodically to ensure the effective curriculum delivery.

Feedback:

- Institution takes the feedback from students, faculty and other stakeholders regarding curriculum and its implementation..
- Department Academic Committees analyze the feedback and the report is submitted to College Academic Committee.
- The identified add-on courses for curriculum enrichment are discussed and finalized in College Academic Committee meeting.
- Courses that are identified to be included in the curriculum, to meet the industry needs/ latest trends are submitted to the university.

File Description	Document
Upload Additional information	View Document
Link for Additional information	View Document

1.1.2 The institution adheres to the academic calendar including for the conduct of CIE

Response:

- Joginpally B R Engineering College strictly adheres to the academic calendar published by JNTUH including for conducting Continuous Internal Evaluation (CIE) exams. The academic calendar provides the date of commencement of the academic session, the duration of the semester, the period of internal assessment tests, submission of mid-term exam marks, parent teachers meetings, practical exams schedule, preparation holidays, final semester examinations etc.
- The institution makes effective planning for conducting CIE by adhering to the academic calendar of JNTUH.
- College Academic Committee with the due approval of Head of the Institution prepares the academic calendar in advance before the commencement of the semester. The calendar outlines the semester class work schedule, midterm examination schedule and external examination schedule.
- The performance of the student is assessed on a continuous basis by conducting two mid (internal) examinations per semester as per university norms. The average marks of both mid (internal) examinations are considered for internal assessment. Assignments, Laboratory Courses and Project Work are also part of CIE.
- For theory courses, CIE is conducted for 25 marks with three components, such as Descriptive,

Objective and Assignments. The descriptive component is marked out of 10 marks. The objective component is marked out of 10 marks. The assignment is marked out of 5 marks. These tests are conducted in evenly spaced-out intervals as scheduled in the academic calendar of JNTUH for the convenience and effective preparation of the students. First midterm examination is conducted for 2.5 units of syllabus second midterm examination is conducted for remaining 2.5 units.

- Syllabus completion is monitored through periodic checking of syllabus coverage, class committee meetings, record of class work and departmental meetings.
- For practical subjects, there is a continuous evaluation during the semester for 25 internal marks and 75 end examination marks. Out of the 25 marks for internal, day-to-day work in the laboratory is evaluated for 15 marks and internal examination for practical shall be evaluated for 10 marks conducted by the concerned faculty. The end examination shall be conducted by external examiner and internal examiner. The external examiner is appointed from colleges as decided by the University Examination Branch.
- To benefit the students, who were absent for theory papers during the mid examination or who want to improve their internal marks, university conducts Computer Based Test (CBT). The CBT will contain 25 objective questions from the entire syllabus of the subject and all are to be answered through online mode for 45 minutes duration for 25 marks.
- Project Review Committee (PRC) monitors the progress and evaluates the project work done by the students by conducting periodic reviews.
- Evaluation of mini projects and major projects are also under the purview of affiliating University.
- The Institute submits all the internal examinations marks to the university in the university web portal within the stipulated time specified by the university.
- To prepare the students for external examinations, the College conducts pre-final examinations.

File Description	Document
Upload Additional information	View Document

1.1.3 Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years

1. Academic council/BoS of Affiliating university
2. Setting of question papers for UG/PG programs
3. Design and Development of Curriculum for Add on/ certificate/ Diploma Courses
4. Assessment /evaluation process of the affiliating University

Response: A. All of the above

File Description	Document
Institutional data in prescribed format	View Document
Details of participation of teachers in various bodies/activities provided as a response to the metric	View Document

1.2 Academic Flexibility

1.2.1 Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

Response: 100

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

Response: 9

File Description	Document
Minutes of relevant Academic Council/ BOS meetings	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document
Link for Additional information	View Document

1.2.2 Number of Add on /Certificate programs offered during the last five years

Response: 186

1.2.2.1 How many Add on /Certificate programs are offered within the last 5 years.

2020-21	2019-20	2018-19	2017-18	2016-17
54	56	39	24	13

File Description	Document
List of Add on /Certificate programs	View Document
Brochure or any other document relating to Add on /Certificate programs	View Document

1.2.3 Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years**Response:** 100**1.2.3.1 Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
1147	1091	1108	1239	1395

File Description	Document
Details of the students enrolled in Subjects related to certificate/Add-on programs	View Document
Any additional information	View Document

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:****Human Values and Professional Ethics:**

- To instill Moral, Social and Ethical values, JNTUH has duly introduced Human Values and Professional Ethics course as an open elective for III year into its curriculum and the institute is ensuring their effective delivery.
- This course helps the students to ensure sustained happiness and prosperity which are the core aspirations of all human beings. It facilitates the development of a holistic perspective among students towards life, profession and happiness.
- The curriculum is being implemented with the help of teachers who are trained at workshops held at the University level. Student activities like NSS are also included in the curriculum as mandatory courses.
- As a part of course enrichment, institute conducts number of activities like Blood Donation Camp, Swatch Bharath, Awareness programs in the adopted village Yenkapally and five other villages, Reddipalli, Himayatnagar, Moinabad, Chinnamangalaram, and Murtazaguda under Unnat Bharat Abhiyan (UBA) for promotion of Universal Values, National Values, Human Values, Communal Harmony and Social Cohesion.
- Code of conduct exists for students, teachers, administrative and supporting staff. For observance of fundamental duties, pledge is taken on Voter's Day. To impart national integration, college celebrates Republic Day, Independence Day etc.

Gender Sensitization:

- In a move to create increased awareness among students towards gender issues, a course on Gender Sensitization is introduced by JNTUH for second year students of engineering.
- The very aim of gender sensitization is to bring definite orientation in the thinking, practices and approach of individuals concerning gender.
- The course deals with issues pertaining to the relationship between men and women, caste, declining sex ratio, struggles with discrimination, sexual harassment, new forums for justice, eve-teasing and expose students to new laws on gender issues.
- Women Empowerment Cell, Women Grievance Redressal Cell and Institution Grievance Redressal Cell are formed to look after the welfare of all girl students. Gender Equality is attained by conducting programs like seminars, debates, group discussions for both boys and girls on a single platform.

Environment and Sustainability:

- Environmental Sciences course is framed as mandatory course for all branches of engineering in the first year.
- The course is designed to create environmental awareness and consciousness among the present generation to become responsible citizens. The course consists of topics like multidisciplinary nature of Environmental Studies, Renewable and Nonrenewable Resources, Ecosystem, Biodiversity and its Conservation, Environmental Pollution, Social Issues and Environment, Pollution Control Acts and Field Work.
- Courses like Disaster Management and Renewable Energy Sources are offered as open electives in the JNTUH curriculum.
- Course enrichment programs are done with the help of NSS wing. Plantations under Haritha Haram, Swatch Bharat Abhiyan, Unnat Bharat Abhiyan awareness programs for not using plastic, awareness of renewable energy sources, conservation of water and electricity are such programs.
- Institution has taken certain environment sustainability initiatives for a green campus like solar energy, use of LED bulbs, waste management (solid, liquid, e-waste), water recycling, rain water harvesting and landscaping with trees and plants.

File Description	Document
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View Document
Any additional information	View Document

1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years**Response:** 86.29**1.3.2.1 Number of courses that include experiential learning through project work/field work/internship year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
362	321	314	331	333

File Description	Document
Programme / Curriculum/ Syllabus of the courses	View Document
MoU's with relevant organizations for these courses, if any Average percentage of courses that include experiential learning through project work/field work/internship	View Document
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	View Document
Any additional information	View Document

1.3.3 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)**Response:** 89.89**1.3.3.1 Number of students undertaking project work/field work / internships**

Response: 1031

File Description	Document
List of programmes and number of students undertaking project work/field work/ /internships	View Document
Any additional information	View Document

1.4 Feedback System

1.4.1 Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders 1) Students 2)Teachers 3)Employers 4)Alumni

Response: A. All of the above

File Description	Document
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	View Document
URL for stakeholder feedback report	View Document

1.4.2 Feedback process of the Institution may be classified as follows: Options:

- 1.Feedback collected, analysed and action taken and feedback available on website
- 2.Feedback collected, analysed and action has been taken
- 3.Feedback collected and analysed
- 4.Feedback collected
5. Feedback not collected

Response: A. Feedback collected, analysed and action taken and feedback available on website

File Description	Document
Upload any additional information	View Document
URL for feedback report	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average Enrolment percentage (Average of last five years)

Response: 61.74

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

2020-21	2019-20	2018-19	2017-18	2016-17
251	337	328	415	332

2.1.1.2 Number of sanctioned seats year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
576	576	576	540	456

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

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: 65.56

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

2020-21	2019-20	2018-19	2017-18	2016-17
166	209	170	174	169

File Description	Document
Average percentage of seats filled against seats reserved	View Document
Any additional information	View Document

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:

The students admitted in first year are assessed based on TS EAMCET Rank and Intermediate Marks. Prior to the regular classes college conducts Orientation programme to the fresher's which help the students to fulfill their passions, challenges, dreams and continue to grow intellectually. Principal, Professors, and Senior faculty guide the students to frame their goals, objectives and instructions like code of conduct, classroom attendance, examination, evaluation system and CIE(Continuous Internal Evaluation) includes student interaction with faculty, level of understanding the concepts, time line practical record submissions, viva-voce and assignments. The students are informed about the amenities available in the college. A one week bridge courses on Mathematics, C programming are conducted for lateral entry students after their admission to fill the gap between their diploma and second year B.Tech syllabus which was not exposed to students during their Diploma.

The slow and advanced learners are identified in each semester based on the previous semester end result and mid examinations of the running semester. The institute adopted a well defined mentoring process where each faculty mentor is assigned with a maximum of 15 students. Through personal interaction, faculty mentors understand each student's strength, need and difficulties. If the student finds any difficulty in any subject, the mentor will take the initiation of facilitating interaction of the student with faculty so that the concerned faculty gives some tips and guidance for betterment of the mentee. The mentors counsel based on the student problems other than academics too. A Mentoring diary for each individual student is maintained for four years to record the details such as attendance, marks, backlogs, add on courses done, papers published, conferences/workshops attended etc., along with mentor remarks. The mentor updates the above details once in every fortnight.

Initiatives for Assisting the Slow Learners

- Tutorial/Remedial classes are conducted for the courses after MID-I exam.
- Counseling with counselors on regular basis with respect to academics and the professional counselor is arranged from our Group's Bhaskar General Hospital if required with respect to non academic issues.
- The students are divided into groups and the debate or discussion about the concepts conducted among the groups to improve their understanding.
- Creating awareness to the parents about the performance of the student periodically, so that the parents too will take the responsibility towards the student for his/her betterment.
- During project work, they are teamed with advanced learners for enabling the peer learning.

Initiatives for Motivating Advanced Learners

- The advanced learners have adequate resources at the institute to explore their knowledge.
- The students are encouraged to do online certification courses like SWAYAM, SPOKEN TUTORIAL, COURSERA, UDEMY, edX, etc.
- They are motivated and supported to attend conferences, workshops, project expos and hackathons.
- They are also encouraged to participate in events organized by professional bodies.
- These students are nominated in college level committees.
- Giving training for Competitive exams like GATE, GRE, TOEFL.

File Description	Document
Upload any additional information	View Document

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

Response: 10:1

File Description	Document
Any additional information	View Document

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:

Joginpally B R. Engineering College believes that effective learning happens with student centric methods. In addition to normal chalk and talk various student centric methods are adopted in regular class hours for enhancing learning experience.

Experiential Learning: The students are taught to practically test the concepts that they theoretically learn in classrooms. This enhances their practical knowledge and helps in better understanding of the theoretical concepts learnt by them. Faculty helps the students when practicing on carrying out experiments. Institution has established digital library stocked with several books, journals, magazines for the ease of the students. This facility is an advantage for any student willing to find a text or reference for his research/project work. The video contents of digital library help the student to understand the concepts better. Online resources are also provided. This widens the scope of learning beyond the syllabus. Several workshops are conducted with industry experts to provide the students exposure with the current technologies and hands on experience. Through these sessions, students understand the practicality and implementation of the concepts studied by them.

Participative Learning: Different methodologies that include Individual Based, Team Based, and Project Based Learning are used to accelerate the learning process. By these learning methodologies that include intensive interaction and participation, students are seen to grasp concepts better and faster.

1. Individual Based Learning: This will make the student to learn, with respect to self motivation, ability to work independently and to build up the self confidence.

- **JAM** – Student will pick a topic and speak for a minute on the topic.
- **Flipped Class Room** – It is a surprise session, where student play a role as teacher.
- **Seminars** – Students are given topics and asked to deliver seminars on it.

2. Team Based Learning: This will make the student to learn, with respect to work as a member in team, sharing the knowledge and improves the communication.

- **Peer Learning**– the students are divided into peer groups and assigned a topic for debate.
- **Group Discussion**- A group of participants are made to debate on a topic in stipulated time.
- **Think-Pair-Share** – Students are paired to think about a topic, share their knowledge by discussing among themselves and present.

3. Project Based Learning: This will make the student to learn, to apply the concepts learned during his/her course for the development of a novel tool/application/equipment.

Micro Projects – Students are encouraged to do tiny projects in II year-II semester to have more hands on exposure.

Mini Projects - Students have to complete Mini project in IV year I semester.

Major Projects - Students have to complete Major project in IV year II semester.

Problem Solving Methodologies: Every student is being taught about the basic approach to solve any issue which he or she comes across in professional life.

Tutorials: The tutorials are helpful to enhance the skills of the students through solving more number of problems based upon the theory covered in the class and solving out previous university question papers.

File Description	Document
Upload any additional information	View Document

2.3.2 Teachers use ICT enabled tools for effective teaching-learning process.

Response:

The institute facilitates the role of technology in teaching-learning. So, the faculty members are using ICT

tools to create interest among students for improving their learning experience. The use of multimedia teaching aids like, LCD projectors, classrooms with internet enabled computers/laptops are generally used in classroom. College has electronic resource packages like ERP, Smart Class room, SWAYAM NPTEL, SPOKEN TUTORIAL, Institutional membership for GDLC –Galileo Integrated Digital Learning Centre, DELNET – Developing Library Network, NDL – National Digital Library which can be accessed by all the students. The faculty members effectively utilize Audio Visual aids to demonstrate the concepts to the students to enhance the learning experience. External Hard disk of 1 TB containing web and video courses (offline) from NPTEL are accessible to faculty and students from the server installed in the library. Lecture Notes and Study materials are shared digitally through student Whatsapp groups. Due to pandemic faculty are taking classes online using different platforms like ZOOM, SKYPE, GOOGLE MEET, CISCO WEBEX etc.

Some of the tools used by the faculty members are

- Google Classroom - LMS
- Moodle Cloud - LMS
- Kahoot - Assessment Tool
- Virtual Labs - Tool to conduct labs through simulations.
- Spoken Tutorial - Course certification

File Description	Document
Upload any additional information	View Document
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	View Document

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

Response: 10:1

2.3.3.1 Number of mentors

Response: 114

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll.	View Document
mentor/mentee ratio	View Document
Circulars pertaining to assigning mentors to mentees	View Document

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 5years(Data Template)	View Document
List of the faculty members authenticated by the Head of HEI	View Document

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:** 11.05**2.4.2.1 Number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
15	14	15	18	12

File Description	Document
List of number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. and number of full time teachers for 5 years (Data Template)	View Document
Any additional information	View Document

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:** 6.32**2.4.3.1 Total experience of full-time teachers****Response:** 721

File Description	Document
List of Teachers including their PAN, designation, dept and experience details(Data Template)	View Document
Any additional information	View Document

2.5 Evaluation Process and Reforms

2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode

Response:

Joginpally B R. Engineering College is affiliated to JNTUH, Hyderabad. Hence the evaluation process is as per the regulations of the university. The evaluation process comprises of two components of internal evaluation and external evaluation.

A detailed academic calendar is available on the college website and notice-boards of the Departments. They are also informed through student's Whatsapp groups and mails. So students know about the dates of mid and external examinations well in advance and they can plan accordingly.

For Theoretical Courses

- External evaluation is for 75 marks and internal evaluation is for 25 marks.
- Internal evaluation is based on two midterm examinations conducted for 50 percent syllabus for each midterm in a semester. Out of the total internal 25 marks, 10 marks are for Descriptive exam, 10 marks are for Objective exam and 5 marks are for assignments.
- The average of the marks secured in two internal evaluations is taken as the final internal marks.
- Each faculty member has to give two different sets of internal question papers for descriptive examination Principal will randomly select one set before the start of the examination. This ensures no leakage of question paper in any form

For Laboratory Courses

- Internal evaluation is for 25 marks in which day to day evaluation is for 15 marks and internal examinations for 10 marks.
- The marks and pattern of day to day evaluation is informed to students at the time of admission and updated periodically if any change takes place. The consolidated lists of marks are displayed in the notice boards.

For Project Works

- Mini project is carried out by the students and is evaluated externally at the end of the semester in IV -I.
- There is no internal evaluation for mini project, but regular reviews are carried out to monitor the progress.
- Major project is evaluated by both the internal faculty and external examiner in IV year II semester.
- Internal evaluation is based on the progress and performance in three review meetings conducted by Project Review Committee (PRC) of the concerned department.

Once the examinations are conducted, the answer scripts of students are evaluated by faculty members. The student is informed about scheme of evaluation. Evaluation is done as per the guidelines and scheme of evaluation. The teachers maintain transparency and fairness. They ensure that they treat each student equally and maintain a code of sincerity. Once the papers have been evaluated, the concerned HOD will verify the scripts randomly and mistakes if any, are brought to the notice of the faculty and rectified. The evaluated scripts are distributed back to students. The concerned faculties discuss the questions and the corresponding answers. This helps the student understand their mistakes and note down the correction. Discrepancies if any, pointed out by students are resolved. Finalized marks are verified by the teachers and students before displaying on the notice boards of respective departments.

File Description	Document
Any additional information	View Document

2.5.2 Mechanism to deal with internal/external examination related grievances is transparent, time-bound and efficient

Response:

The Internal Assessment system is carried out in a systematic procedure and is transparent. Theory courses, Laboratory courses and Project works are evaluated internally.

During the induction program, the first year students are oriented by the In-charge from the exam branch regarding the evaluation system (both internal and external). If any changes in the evaluation system take place, the information is communicated to the students through circulars, notice boards & Whatsapp groups.

The institution has a transparent, time-bound and efficient mechanism for internal examination and any other related grievances through a grievance portal (<https://jbrec.edugrievance.com>). The internal exam answer scripts are shown to the students after evaluation. If the student is not satisfied or not justified for his performance in the internal evaluation of theory/lab/ project, the student can raise the grievance through student grievance portal available in the college website. These grievances are addressed by the Grievance Redressal Cell headed by the Principal. The grievance is closed within a week. Students are free to voice their grievances, if any to the Head of the Department and also to the Head of the Institution at any point of time.

In case of external examination, all grievances are handled at JNTUH examination branch after forwarding such queries through the college examination branch. If a student has grievance in terms of marks obtained in any of the subjects in the semester end examination he applies for revaluation of the script for necessary corrections by paying the prescribed fee to the university. The University appoints an examiner to re-evaluate the script and the results are announced within 30 days. If the candidate is not satisfied with the re-evaluation results and is confident enough of getting more marks, he raises that grievance by applying for Challenge Re-evaluation in which the script is evaluated by both external examiner and the subject teacher. The outcome of the Challenge Re-evaluation is communicated within one week and if there is any increase of marks 90% of the fee is returned to the candidate by the university.

File Description	Document
Any additional information	View Document

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 Program Outcomes (POs), and Course Outcomes (COs) are framed by the department offering the concerned program after rigorous discussion with all faculty, stakeholders and after due approval the same are widely disseminated and publicized through various means such as display and/or communication as under.

- Website
- Corridors
- Department Notice Boards
- Laboratories
- Orientation Programs
- Meetings/ Interactions with employers
- Parents meet
- Faculty meetings
- Alumni meetings
- Library

While addressing the students HODs, While taking the sessions Class In charges and faculties create awareness about POs, and COs. All the Course Material consisting of Lesson Plan, POs, COs of that course, Study Material, Assignment questions, Previous Question papers, Unit-wise possible questions. This material is sent to students through student Whatsapp groups, emails and also posted in LMS (Learning Management System). The faculty members, class teachers, mentors, course coordinators also inform the students and create awareness and emphasize the need to attain the outcomes.

The POs of the programme are displayed on the college website <http://www.jbrec.edu.in/>. The COs of the courses are also published displayed on the college website under respective department (<http://www.jbrec.edu.in/>.) In all the student interactions, awareness on POs, and COs is deliberately covered.

File Description	Document
Upload COs for all Programmes (exemplars from Glossary)	View Document
Upload any additional information	View Document

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

Response:

Attainment of Course Outcomes: The course outcomes are prepared by the action verbs of blooms taxonomy. The assessment of course outcomes is as follows:

Direct assessment:

1. Internal Mid Examinations and Assignments: Two Mid Examinations are conducted for students as prescribed by the university. There are 2 midterm examinations (each for 25 marks), along with 2 assignments in a similar pattern as above (1st mid is from 2.5 units and 2nd mid is from the remaining 2.5units), and the average marks of the two examinations secured (each evaluated for a total of 25 marks) in each subject is considered as final marks for the internals. Each question in the mid exam is mapped to the course outcomes. It is expected that a student should score at least 60% of maximum marks of the course for the attainment.

2. End Semester Examination: For theory subjects, the distribution is 25 marks for Internal Evaluation and 75 marks for the End Examination. It is expected that a student should score at least 50% of maximum marks of the course for the attainment of course outcomes. The marks scored by the students in Internal Examinations, Assignments and End Semester exams are used to assess the attainment level of the whole course and the course outcome attainment level.

3. Labs: For Labs, there is a continuous evaluation during the year for 25 internal marks and 75 marks for the end examination marks. Out of 25 marks of Internal, day to day work in the Laboratory is evaluated for 15 marks and internal examination is conducted for 10 marks by the concerned laboratory faculty. The end examination is conducted by external examiner and internal examiner.

Attainment for the Courses:

Direct CO Attainment: Course Outcome attainment level from internal assessment

Indirect Assessment:

Course - end Survey: At the end of each semester, a questionnaire is administered to all the enrolled

students and feedback is taken on effectiveness of the course. The questionnaire is prepared to know the efficiency and utility of the course outcomes.

CO attainment: Final CO attainment is calculated as $0.9 \times \text{Direct assessment} + 0.1 \times \text{Indirect assessment}$.

Attainment of Program Outcomes

Assessment Process:

Direct Assessment (A):

Mapping of COs to POs and PSOs. Since COs are mapped to POs and PSOs, the values of COs are reflected in the respective POs and PSOs.

Description: Assessment process for COs is described above.

Indirect Assessment (B): Graduate exit survey, Alumni survey

Description: All students leaving the college on completion of program are given feedback forms to give their assessment of POs and PSOs.

POs Attainment: Final POs attainment is calculated as $0.8 \times \text{Direct assessment (A)} + 0.2 \times \text{Indirect assessment (B)}$.

File Description	Document
Upload any additional information	View Document

2.6.3 Average pass percentage of Students during last five years

Response: 81.5

2.6.3.1 Number of final year students who passed the university examination year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
236	201	283	315	326

2.6.3.2 Number of final year students who appeared for the university examination year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
281	242	350	380	425

File Description	Document
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View Document
Upload any additional information	View Document
Paste link for the annual report	View Document

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 (Data Template)	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 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: 30.93

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

2020-21	2019-20	2018-19	2017-18	2016-17
14.515	14.39	1.145	0.445	0.434

File Description	Document
List of endowments / projects with details of grants	View Document
e-copies of the grant award letters for sponsored research projects / endowments	View Document

3.1.2 Percentage of teachers recognized as research guides (latest completed academic year)

Response: 7.89

3.1.2.1 Number of teachers recognized as research guides

Response: 9

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

3.1.3 Percentage of departments having Research projects funded by government and non government agencies during the last five years

Response: 33.33

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

2020-21	2019-20	2018-19	2017-18	2016-17
4	3	1	1	1

3.1.3.2 Number of departments offering academic programmes

2020-21	2019-20	2018-19	2017-18	2016-17
6	6	6	6	6

File Description	Document
Supporting document from Funding Agency	View Document
List of research projects and funding details	View Document
Paste link to funding agency website	View Document

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Response:

The College has a vibrant ecosystem for bringing innovations and promoting entrepreneurial ability among the students. The College established five cells such as “Institution’s Innovation Cell(IIC)”, “Micro Small and Medium Enterprise Business Incubator (MSME BI)”, “Bhaskar Research Innovation Incubation & Start-up Council (BRIISC)”, “Research & Development Cell (R&D)” and “Entrepreneurship Development Cell (EDC)” to promote innovation and for creation and transfer of knowledge.

Ministry of Education’s (MoE’s) ‘Institution’s Innovation Cell’ promotes innovation in the institutions through various modes leading to an innovation promotion eco-system in the campuses and developing the cognitive ability of the students. JBREC IIC is following and organizing all activities available in MoE’s website for the benefit of students and faculty. We have received an appreciation from MoE’s ‘Institution’s Innovation Council’ by being awarded “4 Star” rating for the year 2019-20.

Our college has been approved by MSME as host Institute for Business Incubator under the scheme of “Entrepreneurial Development” for providing a financial assistance up to 15 lakhs for business ideas of students after approval.

Research and Development Cell of the College supports establishment and transfer of knowledge by organizing technical workshops, seminars, training programs, National Conferences, technical presentations by faculty members and students. The cell also encourages and motivates faculty and students

towards publications in National/International Journals and encouraging to participate in research workshops and conferences in other colleges. In addition to the Research and Development cell we have “Bhaskar Research Innovation Incubation Start-up Council” (BRIISC) which is offering support in translating their ideas into trade.

Entrepreneurship Development Cell (EDC) initiated an assortment of activities to motivate the students to become entrepreneur in collaboration with Entrepreneurship Development Institute of India (EDII), E2Labs, Ram Engineering & Controls and Dhanush Engineering Services India Private Limited. The Cell has the objective to create awareness of opportunities and benefits on entrepreneurship for students and make their dream turn in to business through innovative products and to develop entrepreneurial culture. The activities of this cell include creating Awareness Programmes, encourage students and faculty to participate in innovation, idea presentation and product development and create and motivate a permanent network among the students and researchers for knowledge exchange and technology transfer.

“Techno Innovate”, an Idea Contest for student innovative idea presentation is conducted every academic year, in various departments, for three days. Winners of Techno innovate and other aspirants further submit their ideas as project proposals under Student Projects Scheme (SPS) scheme for the grant of seed money. It assists UG and PG students to apply for project grants for implementing their projects.

File Description	Document
Upload any additional information	View Document

3.2.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years

Response: 66

3.2.2.1 Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
15	25	20	3	3

File Description	Document
Report of the event	View Document
List of workshops/seminars during last 5 years	View Document

3.3 Research Publications and Awards

3.3.1 Number of Ph.Ds registered per eligible teacher during the last five years

Response: 1.25**3.3.1.1 How many Ph.Ds registered per eligible teacher within last five years**

Response: 15

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

Response: 12

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	View Document
Any additional information	View Document
URL to the research page on HEI website	View Document

3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the last five years**Response: 2.32****3.3.2.1 Number of research papers in the Journals notified on UGC website during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
17	34	53	103	108

File Description	Document
List of research papers by title, author, department, name and year of publication	View Document
Any additional information	View Document

3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years**Response: 1.42****3.3.3.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
5	22	84	71	11

File Description	Document
List books and chapters edited volumes/ books published	View Document
Any additional information	View Document

3.4 Extension Activities

3.4.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

Response:

The College has a NSS Unit with a total strength of 100 members under the head of J.N.T.U. Hyderabad. The unit was established with an objective to cultivate the attitude of social service among the students and to make them into responsible citizens.

JBREC provides various opportunities to students and staff for the development of sensitization to social issues, NSS activities such as Blood Donation Camps, Health Camps, Swatch Bharat Abhiyan, Tree plantation etc., and also each activity under NSS wing is monitored and guided by faculty members.

JBREC adopted Yenkapally village under National Service Scheme, in addition JBREC adopted five villages under Unnath Bharath Abhiyan namely Reddypalli, Chinnamangalam, Himaythnagar, Murthzaguda, Moinabad villages aiming at transformational change in rural development processes to help build the architecture of an Inclusive India. Students made village survey and household survey in the six adopted villages and also prepared village development plan for future development. Students rendered meritorious service for awareness on among village people on Government Welfare Programmes, Cashless Transactions, Save Water on the eve of World Water Day, Fit India Movement, Traffic Awareness Programme, Say No To Plastic, Save Earth on the eve of World Earth Day, Digital Payments, Voter enrollment and Voters Day Celebrations, awareness on Women Empowerment, Literacy Programmes and Child Labour, Eco Friendly Ganesh to exhibit concern about environment, Bucket Ganesh Immersion and Use of Cloth Bags.

In collaboration with Mahatma Gandhi National Council of Rural Education(MGNCRE), our college has conducted various activities in campus like Sanitation & Hygiene, Waste Management, Water Management, Energy Management and Greenery before COVID-19.

They have participated in various activities like organizing blood donation camps, and conducting Health Camps. Through extension activities the College imbibes students for their holistic development. JBREC NSS team has been frequently conducting Awareness Programmes like AIDS Awareness, Right To Vote, Literacy Awareness and Students are participated actively in above programmes.

The volunteers derive hands-on experience in social service on their visit to the adopted villages under National Service Scheme, Go-Green and Hands-Together camps. The children, youth and elders of the villages are imparted value education, awareness programs on importance of education, sports and games, cleanliness, hygiene, clean drinking water facilities, tree plantation etc.

JBREC is conscious of its role in campus community connection, well-being of its neighborhood and has initiated a number of community development activities. These activities include Blood Donation Camp, Swachh Bharath Abhiyan, World Environment Day, Earth Day and Women's Day etc.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

3.4.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years

Response: 54

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

2020-21	2019-20	2018-19	2017-18	2016-17
13	6	14	8	13

File Description	Document
Number of awards for extension activities in last 5 year	View Document
e-copy of the award letters	View Document

3.4.3 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: 99

3.4.3.1 Number of extension and outreach Programmes conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-

wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
15	25	25	20	14

File Description	Document
Reports of the event organized	View Document
Number of extension and outreach Programmes conducted with industry, community etc for the last five years	View Document

3.4.4 Average percentage of students participating in extension activities at 3.4.3. above during last five years**Response:** 164.82**3.4.4.1 Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
3599	1990	1897	1136	907

File Description	Document
Report of the event	View Document
Average percentage of students participating in extension activities with Govt or NGO etc	View Document

3.5 Collaboration**3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year****Response:** 950**3.5.1.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
153	444	219	100	34

File Description	Document
e-copies of related Document	View Document
Details of Collaborative activities with institutions/industries for research, Faculty exchange, Student exchange/ internship	View Document

3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years

Response: 43

3.5.2.1 Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
13	14	8	5	3

File Description	Document
e-Copies of the MoUs with institution/ industry/corporate houses	View Document
Details of functional MoUs with institutions of national, international importance, other universities etc during the last five years	View Document

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:

Joginpally B R Engineering College has spacious classrooms, well equipped laboratories and good infrastructure spread over an area of 10.21 acres with a green, pollution free and eco-friendly environment.

Classrooms:

The Institute has spacious and well ventilated classrooms which are well-furnished and well illuminated. All the classrooms have proper visibility and audibility. The classrooms are equipped with sufficient furniture, blackboard, white board, fans, and lights. All classrooms are provided with LCD projectors, LAN / Wi-Fi and Internet Connectivity.

Laboratories:

All laboratories are well established with latest state-of-the-art technology equipment. The Institution has domain-centric laboratories as per the regulations of AICTE and JNTUH Hyderabad. Adequate and well-maintained equipment are provided to conduct experiments. The laboratories are upgraded time to time as per the curriculum prescribed by the JNTUH. All laboratories are well-furnished, well ventilated and well illuminated.

Seminar Halls:

The college has three seminar halls to conduct seminars, conferences, guest lectures, and workshops for students and faculty. These are well-furnished, well-ventilated and well-illuminated. Seminar halls have adequate seating capacity and are equipped with LCD projectors, whiteboards, and public address system with Wi-Fi and internet facility.

Computing Equipment:

The institution has 700 computers. Every department has a separate computer lab for conducting programming & simulation experiments to supplement the theory learnt in the class rooms. All the staff members have access to internet connectivity.

Library:

The institution recognizes the importance of the library as a good learning resource. It is updated regularly with the latest books & journals. Library has reprographic facilities. All the departments of the institution have individual departmental libraries where the seminar reports, thesis reports, reference books for the departmental subjects etc are being kept for the benefit of faculty & students.

Smart Class Room:

Institute has one smart class room with all required facilities such as smart board, LCD Projector, Desktop/laptop with internet connection, video conferencing equipment, Podium.

MOOC's Facility Centre and Innovation / Fabrication Laboratory:

Institute has one MOOC's Facility Centre and innovation / Fabrication Laboratory with all required facilities. Catering to the needs of the students, ample number of computers with internet facility is facilitated to the students to promote self-learning via online courses like Massive Open Online Course(MOOCs), National Program on Technology Enhanced Learning (NPTEL), Spoken Tutorial, Virtual Lab, Coursera etc.,

Transport:

The institute provides transport facilities for students and staff from and to various parts of the city, apart from public transport.

Canteen & Cafeteria:

Centralized Canteen is located within the campus to cater to needs of Staff and Students at subsidized rates.

Heath Centre:

Free medical facility is provided to all the students and staff at Bhaskar General Hospital attached to Bhaskar Medical College, (under the management of the same society, i.e. J.B.R Educational Society) which is adjacent to the college. An Ambulance service is available within the campus for any medical emergencies.

File Description	Document
Upload any additional information	View Document

4.1.2 The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.

Response:

Ample time and space is provided to balance the curricular (academic), co-curricular, extra-curricular and extension activities for the all round development of students. All students are utilizing facilities of **Indoor and Outdoor Sports, Yoga, Gymnasium, Cultural and Extension activities.**

The institute has a very active Cultural Committee which organizes several events in an indoor Auditorium / Centralized Seminar Hall with air conditioning facilities, which has back stage green room. The hall is equipped with audio/visual systems and projector facility. The institute is very supportive of the cultural

activities.

The cultural activities conducted annually are **Bathukamma festival, Sankranthi Sambaralu, Ramzan, Christmas, Cultural day, Traditional day, Techfest, Freshers Day, Annual day, Women's day**. During all these occasions, several competitions like **singing, dancing, instrumental, rangoli, floral arrangement, mehendi**, etc. are conducted and prizes are awarded.

Sports, Games (Indoor & Outdoor):

The Sports Committee constituted with faculty from various departments along with Physical Director conducts meetings twice during an academic year to prepare sports calendar and budget estimate for various events. The College encourages students to participate in games & sports. The college has sophisticated sports facilities for both outdoor and indoor games. The facilities for the outdoor games include a professional **Cricket ground, Football ground, Kabaddi, Volleyball, Kho-kho, Throw ball and Badminton Courts**. The Indoor Sports complex is available to play games like **chess, carom board, table tennis and shuttle badminton**. An exclusive sports period is scheduled in the weekly time table at different timings so that all the students get opportunity to play games of their choice. Special provision for practice is in place for the students and faculty on demand after the college hours and on holidays. Hostel Students (Boys & Girls) are using these facilities after the college hours and on holidays.

Gymnasium:

A gymnasium has been established in separate hall with **Treadmill, Exercise Cycles, Fold Down Weight Bench, Dumbbell, Weights, Skipping Ropes, Handgrips, Thread Mill and Bars**.

The above facilities are also available to all students beyond the regular working hours of the institute. A permanent Gym trainer trains the students.

Yoga Centre:

Institute has established one separate hall with Yoga mats. The College organizes Yoga classes for the faculty and students periodically by the Yoga experts. College is having tie-up with Vivekananda Centre for Human Excellence of Sri Ramakrishna Matt to conduct workshops and leadership and spiritual programs. One of the faculty members is trained in this activity, We celebrates Yoga Day every year.

NCC:

Earlier our students were attending NCC training in other colleges, now we have been authorized a NCC unit for duration of 10 years with effect from 2020.

NSS:

The College has a NSS unit, which is approved by JNTUH, through which the students actively participate in various social relevant services like Blood Donation Camp, Unnath Bharath Abhiyan, COVID-19

Awareness Programs, etc.,	
File Description	Document
Upload any additional information	View Document

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: 36

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

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

Response: 19.74

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

2020-21	2019-20	2018-19	2017-18	2016-17
101.27	14.41	32.00	141.57	121.41

File Description	Document
Upload Details of budget allocation, excluding salary during the last five years (Data Template)	View Document
Upload audited utilization statements	View Document
Upload any additional information	View Document

4.2 Library as a Learning Resource

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

Response:

The Central Library of the Institute occupies a very important place in the campus. It supports study, teaching-learning process and research activities. It provides a learning space for the students (UG & PG), staff and faculty members. It is housed with a carpet area of 1500 m². It has a total collection of over 54887 books. The Library is headed by a Librarian and other qualified staff.

Library Networking [Intranet and Internet]

The Central Library is fully automated with Integrated Library Management Software, 'KOHA' which is an open source integrated library system software with fully automation, version 18.05.07.000. It has acquisition, cataloguing, circulation, serial modules procurement, Online Public Access Catalogue (OPAC) and Project Reports. All the library documents are bar-coded and books are issued to users by reading the barcode of the document. The holdings include the books and journals, syllabus, question papers and project reports. The users of the library can access publications of 74 covering all major publishers like IETE, TERI, IEEEEMA, Journal of Computer Science, IJTE, SAGE etc.

The Central Library is also a subscribed member of DELNET (Developing Library Network), a major resource sharing library network in India, which gives access to Full-text Digital Library Resources like Knowledge Gainer Portal, Manuscripts & Rare Books, E-Books, Language Learning Portal, E-Journals (Full Text), Thesis/Dissertations and Other Online Databases

The Central Library is also a member of National Digital Library of India (NDL). NDL contains 6 lakh e-books, lecture videos, notes of NPTEL/SWAYAM courses, presentations used by faculties in classes, online class lectures and questions/solutions of common subjects for students of all engineering discipline. All the staff and students are accessing NDL resources from remote locations by using the login credentials provided by the college passkey.

Wi-Fi facility is available for accessing library resources. E-resources are accessible throughout the campus by means of network connectivity.

Besides printed books and journals, the Central Library subscribes to large number of e-journals in the field of Engineering, Science and Management. It also comprises of an Electronic Library with facilities for accessing online and offline databases.

The library has a unique feature in the form of Book Bank Section which provides the required number of text books to every student at the beginning of each semester. SC/ST Book Bank Scheme is also provided to all the eligible students.

The Institute conducts library stock verification at the end of every year and identifies the books to be weeded out because of obsolescence in syllabus or physical damage. Such books are removed from the library after approval from the library committee. New books are added in sufficient titles and volumes regularly and when syllabus changes or new courses are introduced and also to replace the weeded out /damaged books.

The e-journals can be accessed from remote locations by all the stakeholders using the e- mail ids given by the college and their passwords.

File Description	Document
Upload any additional information	View Document

4.2.2 The institution has subscription for the following e-resources

- 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	View Document
Details of subscriptions like e-journals, e-ShodhSindhu, Shodhganga Membership , Remote access to library resources, Web interface etc (Data Template)	View Document

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: 12.98

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)

2020-21	2019-20	2018-19	2017-18	2016-17
7.99	14.69	12.9	16.37	12.93

File Description	Document
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the last five years (Data Template)	View Document
Audited statements of accounts	View Document

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: 30.53

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

Response: 385

File Description	Document
Details of library usage by teachers and students	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

The IT infrastructure of the college is maintained by trained and experienced professionals well supported by an experienced team of Network and System Administrators. The objective of IT Infrastructure is to provide state-of-the-art and robust hardware facility, softwares and networking support for securely running the College Academics, Administration, Examinations and Research related activities. It has been the epicentre of all network and application needs of the College since its inception and efficiently manages the IT infrastructure.

1. Systems:

The institute has 700 systems in various labs exclusively to meet the curricular requirements. More than 50 systems are available for administrative, HOD's Offices, staff Rooms and exam branch needs. All systems have optical mouse's. 30 printers are available in the campus. The exam branch has a high speed multi tray scanner cum printer. All HOD's, Administrative Office and TPO have scanner cum printers. All staff rooms have printers.

2. UPS:

All computer laboratories are having UPS backup of 30 minutes and also solar power backup.

3. Networking and Internet:

All systems in the Institute are networked through leased line and BSNL line for Internet Maintenance & support. The current internet connectivity is 300 MBPS

4. Wi-Fi:

Wi-Fi connectivity was given to all the students and staff members. Wi-Fi routers are fixed at various locations to improve connectivity. Currently the whole campus is Wi-Fi connected. Wi-Fi facilities provided to Boys & Girls Hostels.

5. Wi-Fi Hot Spots:

At present 12 hotspots are fixed at different locations,

6. Fire walls:

One fire wall is available to control internet facility in the Institution.

7. Software:

The institute has all requisite softwares as per the curriculum. Based on JNTUH curriculum constantly upgrades the softwares. As recommended by AICTE, few free and open source software's are being used. System Software's, Application software's Microsoft Licence software is available in the Institute.

File Description	Document
Upload any additional information	View Document

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

Response: 2:1

File Description	Document
Student – computer ratio	View Document

4.3.3 Bandwidth of internet connection in the Institution

Response: A. 250 MBPS

File Description	Document
Upload any additional Information	View Document
Details of available bandwidth of internet connection in the Institution	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1 Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)

Response: 48.81

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

2020-21	2019-20	2018-19	2017-18	2016-17
139.69	164.38	211.70	197.86	226.49

File Description	Document
Upload any additional information	View Document
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View Document
Audited statements of accounts	View Document

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:

Institute has well defined system for maintenance and utilization of Physical, Academic and Support facilities. Physical, Academic and Support facilities are maintained by Campus Administrator, Principal, Dean-Admin, Civil Engineer, Librarian, Physical Director, System Administrator & Supporting Staff members.

There are college level committees that look after the various aspects of the utilization and maintenance of the physical, academic and support facilities.

Once the Calendar of Events is prepared in the beginning of the semester, the time-table for each section of every semester is prepared allotting the classrooms and the laboratories. This facilitates the optimum usage of resources (academic as well as general). Certain laboratories and workshops are required to be shared and utilized as common facilities. Such facilities are shared by different departments.

Adequate budget provisions are made regularly for maintenance.

General Maintenance:

Maintenance of civil works is needed for getting uninterrupted services which facilitate smooth and

efficient functioning of the institution. The maintenance of civil works include

- Maintaining cleanliness in the class rooms, labs and workshops.
- Maintaining cleanliness and sanitation in the campus.
- Repair of frequently damaging components like window glasses, plumbing components, sanitary ware, floor tiles, doors, classrooms, benches, boards, furniture, faculty rooms etc.,
- Internal roads maintenance.
- Water supply and over head/underground water tank maintenance.
- Periodic painting and white washing of building and labs.

Procedure for Maintenance:

- A request from the Maintenance Committee comprising the problem, through HOD, AO and the Principal, has to be received by the Campus Administrator.
- As per the stock availability and as per the priority of the problem, Campus Administrator will assign the works to the concerned persons.
- If any material is required to be purchased, concerned dept HOD will initiate the request to Principal, after getting the approval from the Principal for purchase of the same. Quotations will be collected from different vendors, based on the quotations, comparative statement is prepared, it is submitted to Principal & Campus Administrator for final negotiations. After that purchase order is prepared and payment made as per the terms and conditions given in the purchase order.
- If the cost of the requirement exceeds Rs.10,000/-, approval must be obtained from the Management.
- On receiving the material, the complaint will be addressed.

Central Library:

Procurement and stocking of books. The order list shall be prepared on the basis of suggestions of the faculty based on the revised syllabus of the JNTUH. The list / purchase order shall be forwarded to the Principal for approval who makes necessary changes, after that purchase order forwarded to management for financial approval. After sanctioning the budget, it is forwarded to Librarian for procurement. The books are received by librarian from the supplier. An inspection is carried out by librarian to check quantity, Title, Author, etc, as per the invoice. The books received by the librarian are entered in the Library Accession Register (AR) & in the Library System. After the completion of Accession, due date slip, numbering shall be pasted on internal Title Page of the Book. During the summer vacation annual stock verification is done by the library committee headed by Dean-Library.

Maintenance of Sports and Games Facility:

The Sports equipment and gymnasium is maintained by the Physical Director. The sports facilities like Volley ball court, throw ball court and basketball court are inspected regularly for any net damage. Regular markings of the court and ground maintenance is done. The gym and other equipment servicing are taken up as and when required under the supervision of the Physical Director

Maintenance of Computers:

Network Administrator and his support staff maintain the facilities including computers and servers, printers, projectors. The keyboards and mouse and other necessary peripherals are replaced as and when

required. The annual maintenance includes the required software installation, antivirus and up gradation. Campus Wi-Fi is maintained.

Classrooms, Tutorial Rooms and Seminar Halls & ICT Facilities:

Class rooms along with LCD projectors, furniture, tube lights and fans are inspected regularly by attendants and department staff. If any damage is found immediately it is reported to the Head of the Department. The Head of the Department reports the issue to the maintenance supervisor for further action. The laboratory staff take care of equipment regularly and report if any damage occurs to the respective Head of the Department. The calibration of the laboratory equipment is done at the end of each academic year.

House Keeping & Cleanliness:

- All class rooms, tutorial rooms, laboratories, library, faculty hall, department office, Seminar halls, Auditorium, Indoor Sports Complex, Student's Common rooms and toilets, Hostel rooms, Mess, Kitchen are cleaned daily. Housekeeping record is maintained by Security Officer & Supervisor.
- Cleanliness in the campus is monitored and recorded along with observations if any. Based on this, suitable actions are initiated if required in consultation with Principal and the same is recorded.

File Description	Document
Upload any additional information	View Document

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: 66.19

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

2020-21	2019-20	2018-19	2017-18	2016-17
722	702	769	841	926

File Description	Document
upload self attested letter with the list of students sanctioned scholarship	View Document
Upload any additional information Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years (Data Template)	View Document

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

Response: 3.26

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

2020-21	2019-20	2018-19	2017-18	2016-17
11	39	92	40	3

File Description	Document
Number of students benefited by scholarships and freeships institution / non- government agencies in last 5 years (Date Template)	View Document

5.1.3 Capacity building and skills enhancement initiatives taken by the institution include the

following

- 1.Soft skills
- 2.Language and communication skills
- 3.Life skills (Yoga, physical fitness, health and hygiene)
- 4.ICT/computing skills

Response: A. All of the above

File Description	Document
Details of capability building and skills enhancement initiatives (Data Template)	View Document
Any additional information	View Document

5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling 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

2020-21	2019-20	2018-19	2017-18	2016-17
1147	1091	1108	1239	1395

File Description	Document
Number of students benefitted by guidance for competitive examinations and career counselling during the last five years	View Document
Any additional information	View Document

5.1.5 The Institution has a transparent mechanism for timely 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	View Document
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View Document
Details of student grievances including sexual harassment and ragging cases	View Document

5.2 Student Progression

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

Response: 41.1

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

2020-21	2019-20	2018-19	2017-18	2016-17
148	129	142	138	147

File Description	Document
Self attested list of students placed	View Document
Details of student placement during the last five years (Data Template)	View Document

5.2.2 Average percentage of students progressing to higher education during the last five years

Response: 31.74

5.2.2.1 Number of outgoing student progression to higher education during last five years

Response: 106

File Description	Document
Upload supporting data for student/alumni	View Document
Details of student progression to higher education (Data Template)	View Document

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: 0

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

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

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

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

File Description	Document
Number of students qualifying in state/ national/ international level examinations during the last five years (Data Template)	View Document

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: 73

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

2020-21	2019-20	2018-19	2017-18	2016-17
7	16	18	14	18

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national/international level during the last five year	View Document
e-copies of award letters and certificates	View Document

5.3.2 Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities following duly established processes and norms (student council, students representation on various bodies)

Response:

The college is having various academic, administrative and student committees as follows:

IQAC: Student members of IQAC help to propagate quality policies adopted by the institution among the student fraternity and also help in projecting the students' view point while taking any quality policy decision.

Anti Ragging Committee: Student representatives monitor the fellow students' activities continuously and if any suspicious activity is identified, the same is informed to the respective authority.

Sports Committee: Student representatives give valid suggestions regarding the sports activities within the institute and help address the adequacy and quality of the infrastructure and other facilities.

Training & Placement Committee: Four students from each branch represent along with the HODs and Department Placement Coordinators. They discuss and implement the Training & Placement related activities. Incessant suggestions are taken from the students to improve the training facilities and placement opportunities.

NSS Committee: Students represent the NSS committee to identify the needs and problems of the community, involve themselves in problem-solving and develop within them a sense of social and civic responsibility.

Student Professional Societies: Each student chapter has its own committee for IEEE, ISTE, CSI to carry out their activities. These student-based activities are useful for promoting entrepreneur and event management skills in them.

Internal Complaint Committee: As per the Sexual Harassment of Women at institution (Prevention, Prohibition and Redressal) JBREC has constituted Internal Compliance Committee (ICC). ICC plays the major role at workplace to receive and redress complaints of sexual harassment.

Library Committee: The students' representation is well taken into consideration while constituting the library committee. The students are consulted in procurement of new titles and other additional learning

resources.

File Description	Document
Upload any additional information	View Document

5.3.3 Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 29.8

5.3.3.1 Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
25	31	33	31	29

File Description	Document
Report of the event	View Document
Number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions (Data Template)	View Document

5.4 Alumni Engagement

5.4.1 There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Response:

Joginpally BR Engineering College, Alumni Association is formally registered under the Telangana Societies Registration Act., 2001 as “JBREC Alumni Association” with society registration number 984.

The alumni meet is conducted every year in order to reconnect with the Alumni and celebrate their success and various achievements. Around 250 Alumni attended the meet in 2020 and gave their valuable feedback and suggestions for the betterment of Institute and Alumni Association. Approximately 50 faculties and staff members were also present for the meeting.

Alumni Contributions:

- **Alumni Referrals for Jobs:** Alumni provide information about job openings in the current market and assist in conducting Mock Interviews. Many-a-time, alumni themselves are part of the placement companies, and some of them are established entrepreneurs and offer jobs. They also provide continuous information through Whatsapp groups to Placement Officer.
- **Internship by Alumni:** Some of the alumni are providing information about the internships in companies.
- **Alumni Feedback:** Alumni feedback is a key input to strengthen the teaching and learning environment at the institute.
- **Guest Lectures / Workshops:** Technology is always changing and there is a need for the Institute to fulfill the gap between industry and academia through value added programs in the form of guest lectures. Alumni are ideal sources for this as they understand the culture of both industry needs and the college environment.

File Description	Document
Upload any additional information	View Document

5.4.2 Alumni contribution during the last five years (INR in lakhs)

Response: A. ? 5 Lakhs

File Description	Document
Upload any additional information	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance of the institution is reflective of and in tune with the vision and mission of the institution

Response:

Institute Vision:

- To be a global leader in education and research in Engineering and Management.

Institute Mission:

- To impart high quality professional education to mould the learners into globally competitive engineers / managers, who are intellectually adept and socially responsible.
- To collaborate with industries and research organizations and excel in the emerging areas of research.

This institution is approved by All India Council for Technical Education (AICTE) and affiliated to Jawaharlal Nehru Technological University Hyderabad (JNTUH). The College has well defined organizational structure for effective decision making, its implementation, and professional management. The Vision and Mission of the institution reflect the directions for governance, perspective plans and participation of the teachers in the growth of the college. The Vision and Mission statements also define the institute's distinctive characteristics in addressing the needs of all stakeholders involved. In adherence to the above Vision and Mission, and the norms of AICTE and UGC, with its extensive experience, and leadership skills, the Joginpally Bhaskar Rao Educational Society constituted the Governing Body. All the members of the Governing Body contribute for the growth and development of the institution.

Various statutory and non-statutory committees are constituted to enable orderly functioning of the Institution under the guidance of the Principal. Statutory committees like Governing Body, College Academic Committee, Finance Committee, and non statutory committees such as Planning and Evaluation Committee, Grievance redressal Committee, Examination Committee, Admission Committee, Library Committee, Student Welfare Committee, Sexual Harassment Committee, Extra Curricular Activities Committee, and Academic Audit Committee are constituted by Principal to help in effective and efficient administration.

The Principal frames the rules and regulations under the directions and guidance of the Governing Body of the institution. The College encourages interdisciplinary research and teaching methodologies. Principal oversees Academic Planning, Academic Calendar, Faculty Requirement, Workload Allotment, Lecture Hall Allotment, Training and Placement, feedback on the Academic System, Analysis of Results, Alumni Association Activities, promotes Research Activities and ensures discipline. The Principal also addresses Infrastructural requirements, Maintenance requirements, Safety requirements, and Security arrangements, Coordination of conferences, Hostel, and Transport issues. Thus, the Principal ensures good academic and academic-administrative atmosphere in the institution to assist the learners to become professionally deft, and globally competitive.

A Dean is a faculty member in the department with significant authority over a specific academic unit or nonacademic unit. Dean takes instructions from the Principal, implements them, and provides feedback and suggestions to the Principal.

The HOD is responsible for monitoring the department functioning and upgrading laboratories. In consultation with faculty members, the HOD prepares a timetable and decides allotment of workload. HOD is responsible to ensure content delivery, effective teaching and learning process, monitor mentor system, and collecting feedback on academics.

The senior professors with assistance of faculty members, act as conveners of the non-statutory committees, assist the Principal in routine administration and academic processes. Faculty plays a vital role in the academic and administrative activities of the institution.

File Description	Document
Upload any additional information	View Document

6.1.2 The effective leadership is visible in various institutional practices such as decentralization and participative management

Response:

The College follows decentralization in all its processes. The Governing Body delegates all the academic and non-academic powers to the Principal. Principal and her team formulate common working procedures and entrusts implementation through Deans, Heads of the departments, and Committees. The college ensures decentralization and thus delegates authority at different levels for ensuring good governance.

A. Institute Delegates Operational Autonomy at Various Levels

i. Principal Level: In order to fulfill the Vision and Mission of the institute, Principal of the institution delegates the academic, administrative, financial, and operational to various statutory committees and non statutory committees along with required powers. The committees formulate the working procedures and implement with the help of faculty members.

ii. HOD Level: The HOD of a department is the overall in-charge of functioning of the academic system, monitors faculty lectures, and designs corrective measures whenever and wherever necessary. HOD conducts meetings with the faculty before commencement of the semester, in which subject allocations are made and class in charges are identified. HOD periodically collects feedback from students and these feedbacks are considered at the time of subject allocation to next semester.

iii. Faculty Level: Faculty members use various innovative methods for teaching. Faculty members are encouraged to upgrade their subject knowledge through NPTEL and other similar courses. Faculty members collaborate with reputed companies to arrange industrial visits. Senior faculty members are appointed as coordinators or conveners for organizing seminars/ workshops/ conferences/ FDPs. Senior

faculty members act as mentors to junior faculty.

B) Participative Management:

The institute promotes a culture of participative management by involving the staff and students at various levels in academic and non-academic activities. Faculty members in various committees of the college conduct a variety of programs which are aimed at developing the leadership skills.

i). Strategic Level: The Principal, Dean Academics, Heads of the Departments, selected faculty members are involved in defining the institutional policies and procedures pertaining to admissions, training & placement, anti ragging, discipline, grievance, counseling and library services, and in effectively implementing the same.

ii). Operational Level: On behalf of the institution, Principal interacts and corresponds with AICTE, JNTUH, Govt. of Telangana, and UGC. The Principal as the member secretary of Governing Body suggests and implements their directions. He / she also monitors introduction of add-on courses, welfare activities, and procurement of equipments.

iii). Functional Level: At functional level, Staff members are involved in deciding the academic activities such as lesson plan, internal examinations and practice tests. They are also participating in sharing the knowledge by discussing the latest trends in technology during faculty meetings. Faculty members also write research papers. Faculty members are involved in the preparation of annual budget of the institute. They frequently discuss, share their opinion, plan for the event, and assist in forming of various student committees to organize events.

File Description	Document
Upload any additional information	View Document

6.2 Strategy Development and Deployment

6.2.1 The institutional Strategic / Perspective plan is effectively deployed

Response:

JBREC affiliated to the JNTUH, Hyderabad has an intended plan for the growth of the institution. The institutional plan is prepared based on the guidelines provided by the JNTUH and the Government of Telangana for the thriving conduct of the academic programmes. The institution adopted the strategic plan created by the IQAC and endorsed by the Governing Body. IQAC examines formative issues and executes best practices that optimistically persuade the teaching-learning process, as well as the counteractive measures, are taken for the performance enhancement. Additionally, IQAC takes initiative in getting sorted out programs that empower faculty members to share their knowledge gained through different training programs.

Quality exploration is advanced at the Institute by attempted research projects keeping considering their significance to prerequisites of innovation in the nearby industry. Faculty and students are revealed to

suitable technology in the arising fields by transferring knowledge online. The institute empowers the faculty members side by side of the most recent trends and improvements in Research, Technology, and Teaching Pedagogy through deputing them to other institutions and by conducting conferences, seminars, and workshops in the institution. Special coaching classes are conducted for students from rural backgrounds to improve their communication skills. Value-added courses are conducted for the students to cater to the needs of the industry. The college website is updated with the latest information regarding the activities of the college to all stakeholders. Separate hostel accommodation is provided to boys and girls with all basic amenities. The energy requirements of the institution are met with the rooftop solar panels on the buildings.

An adequate infrastructure is provided to instigate students to partake in sport and to boost their self-esteem under the guidance of the physical director to take part in sports at all levels. The institute's academic calendar is customized consistent with the strategic plan. The envisaged aspects of the plan are:

- To get NAAC Accreditation.
- To improve the students results and to produce more students with higher grades in academics.
- To sign more number of MoUs.
- To nourish Institute - Industrial relationship.
- To strengthen R & D.
- To conduct GRE, GATE, TOFEL and IELTS classes.
- To organize training programs to improve soft skills.
- To enlarge the numbers of Consultancy projects.
- To extend Entrepreneurial skills by EDC cell.

The College has a Strategic Plan for development comprising goals, objectives and action plans for a period of five years (2017 -2022) that include:

- Support Weak Students
- Improve Infrastructure and ambiance of the institute.
- Improve Teaching, Training - Learning processes and Facilities that Best Reflect the Current and Future Requirements of Engineering Profession at UG and PG levels
- Create Research and Innovation Culture at both UG / PG levels, Enhance Activities Related to R&D, Consultancy and Academic Product Preparation and participation
- Faculty and Staff Development for Improved Competence Based on Training Need Analysis (TNA).
- Enhance Industry Institute and Alumni Interaction
- Introduce Academic & Non-Academic reforms
- Establish Entrepreneurship & Information Processing Cell and Incubation Centre Cell which will harbor for budding entrepreneurs

File Description	Document
strategic Plan and deployment documents on the website	View Document

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:**

The Institution has a well-structured administrative setup. The Governing Body is the highest decision-making body, which lays down policies to the management for effective implementation of the Vision, Mission of the college. The needs of the stakeholders are also taken into consideration. An organogram of the institution represents the administrative setup of the institution.

Various statutory and non-statutory committees are constituted to facilitate the orderly functioning of the Institution under the guidance of the Principal.

These committees are:

STATUTORY COMMITTEES:

- Governing Body
- College Academic Committee
- Finance Committee

NON-STATUTORY COMMITTEES:

- Academic Audit Committee
- Planning and Evaluation Committee
- Grievance redressal Committee
- Examination Committee
- Admission Committee
- Library Committee
- Student Welfare Committee
- Sexual Harassment Committee
- Extra Curricular Activities Committee

The Institution has a set of well-defined rules, policies, and regulations within the framework of AICTE, UGC, State Government, and Affiliating University. The College Academic Committee recommends these rules and Governing Body approves. For all regular recruitments of both teaching and non-teaching staff, an advertisement in leading national and regional newspapers is published by the institute. The applications received in response to the newspaper advertisement are screened and shortlisted. The shortlisted candidates are intimated about the interview date through emails and also personally over phone. Phased interviews are conducted in a very transparent manner by a selection committee comprising of CEO, Principal, HOD of the concerned department, and two subject experts from other colleges. Each member of the committee individually ranks all the interviewed candidates strictly based on academic credentials and performance in the interview. The list of selected candidates is finalized immediately after the conclusion of interviews by taking the top few candidates commonly appearing in the individual members ranking and intimated to the selected candidates on the same day. Appointment letters are subsequently issued. The selection committee proceedings are ratified by the Governing Body.

File Description	Document
Upload any additional information	View Document
Link to Organogram of the Institution webpage	View Document

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	View Document
ERP (Enterprise Resource Planning) Document	View Document
Details of implementation of e-governance in areas of operation, Administration etc	View Document

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

Response:

The following are the service benefits and welfare measures extended to the staff of the Institute:

- Leave is granted to teachers to participate and present papers in international conferences.
- Duty leaves (OD facility) to staff members to attend various Training Programmes/ Orientation/ Refresher/ Workshop/Seminar/Exam subject to the existing Government rules.
- Reimbursement of registration fees for attending NPTEL Exams.
- Complete support and assistance is provided to the faculty for pursuing higher studies.
- The faculty members are eligible to avail Casual Leave of 12 days per year.
- The faculty can avail two one hour permissions (late coming or early going) per month during regular working time.
- Teaching faculty can avail 28 days of summer vacation.
- Grant of 14/ 10/ 7 days paid leave for faculty suffering with corona.
- Non-teaching staff can avail 14 days of summer vacation.
- All the eligible Teaching and non-teaching staff members are covered under Employee Provident Fund Scheme.
- Grant of 7 days paid leave for marriage to the teaching and non-teaching staff members.
- Maternity Leave scheme for both teaching and non-teaching staff.
- Free medical check-up facilities are available to all the teaching and non-teaching staff members.

- Transport facilities provided with nominal cost to all the teaching and non-teaching staff members.
- A formal exhaustive process for increments.
- Increase in pay for Ph.D.
- Job for spouse in the group or society.
- Subsidized housing in JBREC Campus for key faculty.
- Celebration of important festivals for the teaching and non-teaching community.
- Hostel Facility for teachers on request.
- First Aid Facility.

File Description	Document
Upload any additional information	View Document

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: 57.9

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

2020-21	2019-20	2018-19	2017-18	2016-17
91	109	51	94	35

File Description	Document
Upload any additional information	View Document
Details of teachers provided with financial support to attend conference, workshops etc during the last five years	View Document

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

Response: 13.4

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

2020-21	2019-20	2018-19	2017-18	2016-17
22	19	4	17	5

File Description	Document
Upload any additional information	View Document
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff	View Document

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: 59.45

6.3.4.1 Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
97	109	55	106	23

File Description	Document
Upload any additional information	View Document
Details of teachers attending professional development programmes during the last five years	View Document

6.3.5 Institutions Performance Appraisal System for teaching and non-teaching staff

Response:

A) Teaching Staff:

Every teacher has to submit a self-appraisal form at the end of academic year duly forwarded by the HOD. Review of the performance appraisal is made by HOD and Principal. The appraisal system evaluates the performance for 115 points in the following criteria.

i). Academic Performance: (50 Points)

Parameter	Points
Teaching load and semester results	5

Research/project guidance to students	5
Any projects completed other than the student's projects	5
Innovations / experiments introduced in the course	5
Contribution in curriculum & course development	5
Intellectual capital (books / articles/ patents/ talks)	5
Publications in journals	5
Organizing and participation in seminars/ workshops, special lectures, FDP's, summer institutes	5
Contribution to the corporate life of the institute	5
Membership or fellowship of professional /academic bodies	5

ii). General Performance and Attributes: (50 Points)

Parameter	Points
Knowledge & Skills	5
Organization	5
Cooperation	5
Communication	5
Interpersonal Skills	5
Initiative and Adoptability	5
Quality of Work	5
Attendance	5
Supervisory Ability	5
Achievement of Objectives/Outcomes	5

iii). Consolidated Performance Report of the Staff members (15 Points)

Parameters	Conditions	Points
Stay	Full marks if Stay >1 Year, if not points are given proportionally.	5
Results	1 Point for each subject limiting to 4 points for 75% result in each subject, if not 0.5% for each subject.	4
Feedback	1 Point for above 75%, 0.5 Points for 65-75%, 0 Points for <65%.	1
Research/ Admissions	1 Point for each journal paper limiting to 2 Points and 2 Point for each admission.	2
Work done at Department Level	1 Point for AICTE/ JNTUH/ NBA/ NAAC/ Life Skills/Inspection works.	1
Work done at College Level	1 Point for AICTE/ JNTUH/ NBA/ NAAC/ Life Skills/ Inspection works. Comprehensive Assessment by HOD/ Principal	1
Comprehensive Assessment by HoD/ Principal	1 Point for AICTE/ JNTUH/ NBA/ NAAC/ Life Skills/ Inspection works. Comprehensive Assessment by HOD/ Principal	1
Negative Points	0.5 points for LOPs, 0.5 points for Indiscipline	Optional

B) Non-Teaching Staff:

Heads of the Departments submit an annual confidential report on the performance of non-teaching staff for 50 marks considering the following parameters:

Parameter	Points
Knowledge & Skills	5
Organization	5
Cooperation	5
Communication	5
Interpersonal Skills	5
Initiative and Adoptability	5
Quality of Work	5
Attendance	5
Supervisory Ability	5
Achievement of Objectives/Outcomes	5

File Description	Document
Upload any additional information	View Document

6.4 Financial Management and Resource Mobilization**6.4.1 Institution conducts internal and external financial audits regularly****Response:**

The college has the mechanism of both internal and external audits for all the financial activities carried out in the Institution every year. Accounts department headed by Accountant maintains financial accounts daily and prepares all financial statements.

Internal Audit:

The Principal constitutes an Internal Audit Committee with three members. The audit is conducted fully to check the correctness of the financial transactions of the Institution. The Committee verifies Cashbook, Bank accounts, Ledgers, Bills, Vouchers, and statement of cash position and cash flow physically and conducts auditing on the heads of various accounts, balance dates, and postings.

External Audit:

K. Venkateswara Rao and Associates Chartered Accounts Co., Himayathnagar, Hyderabad carries external

audit. The financial audit team visits the institute periodically to carry out the auditing. Once the annual external audit is conducted, and the reports are submitted to the management. The Finance Committee ratifies these reports. With all statutory obligations duly complied, there were no major audit objections until the last audit. The last audit was done in the Year 2020. Audit of funds received from Government and Non-Government research funding agencies and Consultancy is duly done as per the guidelines of the funding agencies as and when required and submitted.

File Description	Document
Upload any additional information	View Document

6.4.2 Funds / Grants received from non-government bodies, individuals, philanthropers during the last five years (not covered in Criterion III)

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)

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

File Description	Document
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the last five years	View Document

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

Response:

A) Resource Mobilization

The institution developed a strategy for mobilizing resources and ensures transparency in the financial management of the institution. It primarily depends on the Quality enhancement and the reputation of the Institution. Competent faculty with a higher qualification, State of art laboratories and good placement record enabled fixation of better fee by the Govt. Telangana State Admission and Fee Regulatory Committee (TS AFRC). Thus quality enhancement in the institution is facilitating the generation of funds from different sources and more fee in turn is faculating higher expenditure on quality.

The following are the different ways of mobilizing the funds in the Institution.

- **Tuition Fee:** The major source of revenue generation is tuition fees collected from students. The appropriate fee is fixed, as per the norms, by Telangana State Admission and Fee Regulatory Committee (TS AFRC) depending on the accreditation of programs and amount spent for the development of Institution.
- **Sponsored Research and Consultancy:** Funds are also mobilized through sponsored research projects from National funding agencies such as DST, UGC, AICTE, DRDO, ISRO, etc. and Non-Government agencies.

B) Resource Utilization

The resources are utilized for the following as per the approved budget

- JBREC spent amount for conducting various programs like guest lectures, conferences, workshops, faculty development programmes, sports, yoga, personality development, and other activities.
- Skill Development and Innovation
- Student Services- NCC, NSS, Sports.
- Salaries paid to both teaching and non-teaching staff.
- Affiliation and renewals.
- Postage and telephones.
- Power and fuel.
- Training and Placement.
- Printing and Stationery.
- Taxes and licenses.
- Software procurement, up-gradation, and maintenance.
- Wi-Fi, Internet, and Networking.
- Furniture, Laboratory Equipment, and Consumables, etc.
- Purchase of library books, and sports items.
- Electricity, water, an internet website, and telephone bills.
- Repair, Replacements, and Maintenance of apparatus and purchase.
- Miscellaneous expenses and for certain emergency situation.

File Description	Document
Upload any additional information	View Document

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

Response:

IQAC is responsible for the development of quality culture in the institution through Internal Quality Assurance Committee.

- Development of quality benchmarks for various academic and administrative activities of the institution.
- Facilitating the creation of a learner-centric environment conducive to quality education.
- Supervises the COs and their alignment to POs, question banks, assignments, tests, quizzes, activities, Bloom's Taxonomy, and ensures targets set by faculty are realistic.
- Documentation of the various activities leading to quality improvement;
- Acting as a nodal agency of the Institution for coordinating quality-related activities, including adoption and dissemination of best practices;
- Development and maintenance of institutional database through ERP to maintain/enhancing the institutional quality;
- Development of Quality Culture in the institution;
- Maintain and update website

The college institutionalizes IQAC initiatives and corrective measures. Two such practices institutionalized as a result of IQAC initiatives are:

Best Practice 1: Academic Audit through IQAC

The college takes an academic audit of each department and various committees every year through IQAC to increase and maintain the quality of education. The Committee is formed for this purpose. The motivation behind the Audit is to inspect and evaluate the performance of the various departments and appreciate their achievements and give suggestions for further improvement in the quality of teaching, research, administration, curricular and extra-curricular activities. It develops a system for conscious, consistent evaluation and catalytic action to improve the academic and administrative performance of the institution. It identifies the opportunities for academic and administrative reforms and builds an organized methodology of documentation and internal communication.

T-L Process, Use of ICT tools, Technical seminar, Internships, training, Industrial visit, Co-curricular and Extra-curricular activities, Extension Activities, Project work, Parents Teacher Meeting, Department Events, Research Work, Counseling and Mentoring, Alumni, Placement Details, MoU Activities, College Level Events are considered for evaluation. The Committee evaluated once in an academic session as per the academic plan, reviewed their academic progress and submitted a report. Due to the implementation of such academic audit, it is found out that all departments; committees have been constantly improving their curricular, co-curricular, and extra co-curricular performances.

Best Practice 2: Use and enrichment of ICT infrastructure

The use of ICT tools has become an integral part of the teaching-learning process. Always encouraged teachers to utilize these tools in classroom teaching and laboratories. Prepares the plan to include the use and enrichment of ICT infrastructure expecting from each department. The IQAC has advised the administration to enrich ICT infrastructure by purchasing advanced ICT tools, broadband internet Wi-Fi

facilities. Periodically IQAC has trained teachers and non-teaching staff to use ICT by conducting different workshops. In teaching and learning, the feedback system is implemented to take the review of the reliability and uses of ICT facilities. Institute has 100 % ICT- enabled classrooms & seminar halls and smart classrooms as per the latest trends. The campus has a digital library with a free internet facility. It enables a remote accessing facility to students and faculty, e-journals, e-books, NPTEL, DELNET, NDL, Moodle cloud, and Coursera.

File Description	Document
Upload any additional information	View Document

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:

The IQAC periodically reviews the teaching – learning process, working load, time table, placements, results, feedback etc. and analyzes them. During these reviews, the areas for improvement/up gradation are identified. Some such improvements carried during the earlier years are listed below:

- **ICT:** Usage of seminar halls and tutorial rooms is enhanced, thus promoting the implementation of ICT. All of the classrooms are equipped with LCD projectors to promote good teaching and learning environment.
- Internet bandwidth is enhanced to encourage e-learning and self-learning.
- Faculty members are encouraged to adopt active learning techniques as a standard teaching pedagogy.
- The teaching methodologies are improvised continuously by adopting several best practices, enabling the learning to happen by evolution rather by enforcement.
- Some of the measures include submission of course handouts, monitoring of course delivery and assessment, remedial actions for slow learners, timely conduct of project reviews, compliance with academic calendar and regulations and evaluation system.
- **Syllabus Coverage:** As per the directions of affiliating university syllabus completed on time.
- **Slow Learners:** The arrangement of remedial classes, doubt clearing classes for slow learners.
- **Student Centric Teaching:** Learning is made student-centric through a series of lectures, seminars, presentations, and industrial visits. IQAC helps to maintain and sustain quality parameters of the institute in every aspect of academics.
- **Outcome-based Learning:** The institute's prime focus is on high academic performance, through outcome-based learning and evaluation process. Greater importance is accorded for continuous assessment, creatively implemented as per the needs of each course.
- **Collaborations:** The Institute encourages collaborative learning between industry and academia as a means of reinforcing its curriculum with practical and real-world experiences.
- **Mentoring:** The students' academic progress is monitored regularly by a well-structured and

executed mentorship program.

- **Auditing:** The Internal Academic and Administrative Audit are carried out regularly and any shortfalls identified are addressed from time to time.
- **Review Meetings:** Quarterly review meetings are conducted to evaluate the knowledge and ability of the faculty in teaching, the quality of course material and assignments prepared by the faculty are assessed internally and suitable suggestions are implemented for enriching the course materials.
- **Student Feedback:** The quality of teaching is periodically monitored through feedback which is obtained from the students to assure quality in teaching and learning process.
- **Evaluation Procedures and Feedback:** The evaluation of faculty by the students through feedback forms is done twice in a semester. This feedback is analyzed and appropriate suggestions are given to the faculty by the HOD concerned and the Principal to see that they rectify the shortcomings.
- The seminars and workshops are conducted for the faculty and students.

File Description	Document
Upload any additional information	View Document

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, NBA)

Response: A. All of the above

File Description	Document
Upload e-copies of the accreditations and certifications	View Document
Upload details of Quality assurance initiatives of the institution	View Document
Upload any additional information	View Document

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:

Gender Equity & Sensitization in Curriculum:

The course on “Gender Sensitization (An Activity-based Course)” is introduced by the affiliating university JNTUH in 2015-16 as a compulsory foundation course for II year in B.Tech Course.

Learning Outcomes of the Course: Students develop a better understanding of important issues related to gender in contemporary India. Students are sensitized to basic dimensions of biological, sociological, psychological, and legal aspects of the gender.

Gender Equity & Sensitization in Co-Curricular Activities:

Joginpally B.R. Engineering College enthusiastically focuses on gender issues on the campus. The College strengthens the potential of young girls and boys to advocate for gender equity and monitors progress towards gender justice. The College provides a healthy and congenial atmosphere to staff and students of the college by promoting measures aimed at achieving gender equity, removal of gender bias or discrimination, sexual harassment and other acts of gender-based violence and organize awareness programs and campaigns.

The Women Empowerment Cell, College Grievance Redressal Cell, and Sexual Harassment Cell serve as fundamental platforms to address and promote gender-based activities like Gender Sensitivity Awareness, women’s Day Celebration, National Youth Day Celebration, Engineers’ Day Celebration, etc.

The committees have been organizing various activities as under:

- The college practices gender equity in all its activities.
- Experts from different fields are invited as Chief Guests for various programs which are organized for the motivation of both genders. They sensitize the audience with relevant issues.
- Poster presentation, Speech and Open Talks on Gender Issues are conducted for Promotion of gender equity among faculty and students.

1.Safety and Security:

Extreme care is taken by concerning security. CCTV surveillance is installed at various points to record the activities of the students, staff, and visitors moving on the college campus. The Security staff maintains adequate security measures. Medical and ambulance facilities are also available within the campus. Women security guards are also available in the campus.

- 1.**Counseling / Mentoring:** JBREC gives utmost priority to students’ counseling as well as mentoring regarding various issues. Faculty members act as mentors to solve the issues related to

any gender bias issues. Personal care is taken by them to build the confidence and moral of the students who are in low spirits. The students requiring counseling are identified by the mentor and are directed to the doctors available in Bhaskar General Hospital (BGH) a sister organization of our Group located in the same campus counseling is provided by them. BGH faculty is in addition to the mentoring done by the mentor.

2. **Common Room for Girls & Boys:** Separate Common rooms are provided for boys and girls to give a place to unwind, study, have relaxed discussions, refresh themselves when there are no classes. Rooms are provided with necessary facilities like first aid box, cots, attached washroom, mirror, chair, table, dustbin, etc.
3. **Day Care Center:** JBREC established a Day Care Center for the children of female employee son the campus. It is helpful to teaching and non-teaching staff.

File Description	Document
Link for 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	View Document
Link for annual gender sensitization action plan	View Document

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
Any other relevant information	View Document

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:

Joginpally B.R Engineering college believes in “Let’s go green and keep our campus clean”. The college maintains the emphasis on the protection of the environment by generating less waste and recycling it by passing it through a system that enables the used material to be reused ensuring that less natural resources are consumed.

The College practices the concept of 3ways–**Reduce-Reuse-Recycle** in all activities, to protect the environment

1.Solid Waste Management: The waste generated by a wide range of routine activities carried out in the College like Wrappers, Papers, Food-left over, etc. , used papers and Workshop crap, etc, are given to external agencies for recycling. The Waste is segregated and disposed off in the 2coloured bins according to the nature of the waste.

- 1.The Green-colour dustbins are meant for wet and biodegradable waste.
- 2.Blue-colour dustbins are meant for dry and non-biodegradable waste.

Cleaning or emptying of the dustbins is being done regularly twice a day.

2. Liquid Waste Management: The liquid waste generated on the campus includes Sewage, Laboratory, Laundry, Hostel and Canteen Effluent Waste. The above waste is treated through a Sewage Treatment Plant (STP) set up at the back yard of campus. It has proven to be very effective in the removal of contaminants from water by destabilizing and electro coagulating suspended organic and in organic matter in the sewage.

3. Bio medical Waste Management : JBREC does not generate any Biomedical Waste.

4. E-Waste Management: All electronic equipment used in the campus are regularly maintained and repaired to ensure minimum e-waste. The minor repairs are carried out by the Laboratory Assistants and Teaching Staff and the major repairs are handled by the Technical Assistants and are reused. Joginpally B.R Engineering College(JBREC) entered in to MOU with “Recykal” an authorized recycling Agent which buys our unserviceable e-equipment like computers, Printers, Cathode Ray Oscilloscopes (CRO),Function Generators and Photocopy machines.

5. Waste Recycling System: Effective reuse of recycled waste water from Sewage Treatment Plant is being done for gardening purposes. No fresh water issued for gardening at all.

6.Hazardous Chemicals and Radioactive Waste Management: Hazardous Chemicals are kept separately well labeled in the storeroom away from the reach of students. The hazardous chemical waste is properly treated before it is allowed to go into the drains. There is no requirement for any radio active substance in the campus.

File Description	Document
Any other relevant information	View Document
Link for Relevant documents like agreements/MoUs with Government and other approved agencies	View Document
Link for Geotagged photographs of the facilities	View Document

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
Any other relevant information	View Document

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	View Document
Any other relevant documents	View Document
Link for any other relevant information	View Document

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	View Document
Certification by the auditing agency	View Document

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	View Document
Details of the Software procured for providing the assistance	View Document
Any other relevant information	View Document

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:**

The College organizes various cultural programs to celebrate the cultural diversity of India. Students from various regional and cultural backgrounds participate in such programs and present their regional or cultural folk songs and dances. These cultural events are organized at different levels- departments, hostels, and college- and on different occasions like Independence Day, Republic Day, etc. Apart from the annual cultural events organized by the college, JBREC Students Activity Centre (SAC) also conducts week-long cultural and sports events. To cater to the linguistic diversity, all student several programs for providing an inclusive environment. It has taken various initiatives for promoting tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic –related competitions like Essay Writing and Elocution are conducted on the campus.

The various departments of the college conduct seminars, workshops, and outreach programs to promote communal harmony and tolerance. JBREC NSS cell organizes joint community development projects and other community welfare awareness programs, depending on the local needs to sensitize the local community. Various activities like Painting, Greeting Cards for Jawans, Freedom Run, Slogan Writing Competition, Essay Writing Competition, Patriotic Songs Singing Competition, Lectures by Eminent Personalities and Mass recitation of the National Anthem by all students are conducted.

The institution has provided a vast environment for students to expose their in born talents in cultural events. To improve students' mental and concentration levels JBREC engages them in sports activities regularly.

Life skill program is being conducted regularly to ignite their knowledge in various aspects. The environment is eco-friendly and students have been given the obligation to maintain and understand their role to create a pollution-free environment.

The culmination is to visualize and create healthier society by providing affordable health services and to inspire the budding aspirants to reach the unreached for the betterment of the community.

The College conducts programs for Sankranti and Batukamma and has active participation of students in conducting them. Programs for New Year, Christmas day, Diwali, and Dussera. Dental Camps and Medical camps in Yenkapally village are conducted regularly.

File Description	Document
Link for supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View Document
Link for any other relevant information	View Document

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:

The course on “**CONSTITUTION OF INDIA** (Audit Course)” was introduced by the affiliating university JNTUH as a compulsory foundation course in II-year B. Tech for all branches of B.Tech Course from the academic year 2018-19.

Course Outcomes of Constitution of India are

- Discuss the growth of the demand for civil rights in India for the bulk of Indians before the arrival Of Gandhi in Indian politics.
- Discuss the intellectual origins of the frame work of argument that informed the conceptualization of social reforms leading to a revolution in India.
- Discuss the circumstances surrounding the foundation of the Congress Socialist Party[CSP]under

the leadership of Jawaharlal Nehru and the eventual failure of the proposal of direct elections through adult suffrage in the Indian Constitution.

JBREC undertakes different initiatives by organizing various activities to sensitize students and employees to the constitutional obligation: Values, Rights, Duties, and responsibilities of the citizens. JBREC conducts Constitution Day at college campus. Our constitution provides for human dignity, equality, Social justice, Human rights and freedom, Rule of law, equity and respect and superiority of constitution in the national life.

A voter's pledge programme is organized on 24 January for students and faculty members at JBREC. Every year Republic day is celebrated on 26 January by organizing activities highlighting the importance of the Indian Constitution. Similarly, Constitution Day is also celebrated on 26 November every year. Independence Day is also celebrated every year to highlight struggle for freedom and the importance of Indian constitution.

The different programs organized by the JBREC each year are

- National Voter's Day
- Constitution Day
- World against Child Labour Day

National Voter's Day: National Voter Day is celebrated on 25 January is celebrated to spread awareness among the young voters regarding effective participation in the electoral process and in fusion of democratic values among the students who are the future electors of the country. The NSS cell conducts Voter's Day celebrations. The theme of the programme is to explain the importance of each vote in making the democracy of the country strong.

Constitution Day: The institute celebrates the National Constitution Day on 26 November every year. The celebration marks the pledge to uphold the values of India as a sovereign, socialist, secular, democratic republic, and to secure the economic and political liberty of thought, expression, belief, faith and worship, equality of status. The pledge is followed by the screening of program by the Honorable President of India. The program concludes with the quiz programme for students and the staff.

World against Child Labour Day: The institute NSS unit educates the neighboring villages regarding the harmful effects on society of the child labour exploitation on 12th June-the Child Labour Day every year. In this regard the NSS unit along with its program officer visits the nearby school and conducts the essay writing and elocution competition on the child labour to bring awareness among the school children and society.

File Description	Document
Link for details of activities that inculcate values necessary to render students in to responsible citizens	View Document
Link for any other relevant information	View Document

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	View Document
Code of ethics policy document	View Document

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

Response:

Every year JBREC organizes several International/National commemorative days, festivals and birth anniversaries of the great Indian personalities such as:

International Youth Day.

Engineer's Day.

Makara Sankranti.

Ganesh Chaturthi.

Dussehra.

Independence Day.

Republic Day.

- Every year we celebrate **International Youth Day** (IYD on 12th August. Students organize and participate in IYD. The purpose of the day is to draw attention to a given set of cultural and legal issues surrounding the youth. Students organize and participate in activities based on the UN IYD. International
- Every year birthday of **Dr. Mokshagundam Visheshwariah** is celebrated on 15th September as **Engineer's Day**. A Distinguished guest is invited to address the students and faculty to inspire

them to excel as engineers by following the path of the great personality.

- **Makara Sankranthi (Pongal):** Pongal is the festival of Hindus that follows a solar calendar and is celebrated on the 14th of January every year. Makara Sankranthi refers to the event of the Sun entering the Zodiac sign of Makara or Capricorn. The college conducts many cultural programs on this occasion like Rangoli, Ethnic Wear, Dance, etc.
- **Ganesha Chaturthi:** It is celebrated on the birthday (rebirth) of the Lord Ganesh the son of Shiva and Parvati. The festival is observed in the month of Bhadra pada starting on the Shukla Chaturthi (fourth day of the waxing moon). At JBREC, this festival is celebrated for five days. The students and the staff participate with great devotion. On the fifth day the Ganesh idol is taken for *nimajjan* /immersion. On this day, the students take out a big procession and the students of all religions participate with great zeal and enthusiasm. This brings great religious harmony among the students and they develop respect for the other religions.

Dussehra: The festival of Dussehra falls in the month of September or October of the English calendar. Dussehra is celebrated as victory of goddess Durga over the demon Mahishasura. It conveys the message of victory of good over the evil.

This festival is celebrated for 10 consecutive days (i.e. the first ten days of the bright fortnight of Ashviniya Masam of the Lunar Month). The first nine days are called 'Sharad Navaratri' and the tenth day is Dussehra. In fact the last four days of this ten days festival, Saptami, Durgastami, Mahanavami and Vijayadasami is celebrated with much gaiety and grandeur.

During these Navaratri celebrations JBREC conducts various cultural events like, dance and singing.

- Every year we celebrate **Independence Day** on 15th August and Republic Day on 26th January with pomp and gaiety by hoisting the national tricolour on the Main Campus. We encourage some students to speak on various topics relevant to the day. After unfurling the flag, students sing the National Anthem and other patriotic songs. On these occasions, the CEO and Secretary also deliver Independence/Republic Day messages.

File Description	Document
Link for Geotagged photographs of some of the events	View Document
Link for any other relevant information	View Document
Link for Annual report of the celebrations and commemorative events for the last five years	View Document

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:**BEST PRACTICE I**

Title of the Practice: Bridging the Gap between Industry and Institute

Objectives:

1. Memoranda of Understanding between the Institute and industries to bring the two sides emotionally and strategically closer.
2. Students visiting industries to gain knowledge
3. Organizing Workshops, conferences and guest lecturers with joint participation of the faculty and the industries.
4. Professional consultancy by the faculty to industries.
5. B.Tech and M.Tech Projects/dissertation work in industries under the joint guidance of the faculty and experts from the industry.

The Context

With the advent of globalization and opening up of the Indian economy to the outside world, competition among industries has become stiff. The companies are introducing new technologies and engineering methodologies to solve their engineering problems.

The institution has taken the initiative to interact with various industries through the Industry Institute Interaction Committee that maintains professional relations with industries. Industrial visits are arranged for students and faculty members to gain practical exposure and keep abreast of their knowledge. To achieve academic excellence, students are encouraged to interact with industries and research organizations through Seminars, Workshop, industrial visits, sponsored projects, training programs, internships, consultancy etc. Industry professionals are regularly invited to share their knowledge with the students. It opens up a fresh avenue for enthusiastic young minds and faculty members to develop skills across diverse areas, including managerial skills, social responsibilities and Industrialization.

The Practice

To strengthen the Institution Interaction with Industry, the institution is a member of reputed Industry professional bodies. The institution interacts with some industries which provide numerous interventions, architect solutions, recommendations and training to academia throughout the year. JBREC focuses on faculty development programs, student development programs and international linkages. The industrialization program is aimed at developing Meaningful relationships with industries to create and strengthen mutually beneficial relationships between Institution and Industry.

Evidence of Success

The outcome of this practice is connected new curriculum development, faculty development programs,

developing better teaching practices, building industry partners for internship, having industry expert ecosystem with strong backup from management of engineering colleges. This consistent ecosystem should provide new thoughts and latest happenings in a motivating and thought provoking manner.

BEST PRACTICE II

Title of the Practice

Learner-Centric Pedagogy is integrated for the achievement of graduate attributes.

Objectives of the Practice

1. Develop a learning environment that is centered around the learner.
2. To train the members of faculty on pedagogical teaching and learning.
3. Development of knowledge and process skills through course-based projects.
4. To impart the importance of using ICT tools in teaching.
5. To educate the faculty on new innovations and practices of teaching through ITW.
6. Each student must achieve Graduate Attributes.
7. To promote outcome-based education in teaching and learning.

The Context

JBREC is able to meet the needs of such diversity by combining several pedagogical - learner-centric methods.

The Practice

At all levels, employees are influenced and imbibed with "The Seven Habits of Highly Successful People." In this way, intrinsic motivation is encouraged.

1. Using Learning by Doing and Think-Pair-Share in addition to Process-Oriented Guided Inquiry Learning can lead to a more cooperative learning experience.
2. To enhance the LSRW skills (Listening, Speaking, Reading and Writing). These training sessions are conducted with an objective to improve the comprehension skills of faculties. Two trainers are provided for each batch to ensure that every faculty gets the attention needed thus making sure that there is maximum participation. Faculties are given team tasks and activities thus encouraging participative learning.
3. A platform for modelling and developing projects is provided by "Course-Based Projects".
4. Teacher and student establish goals using "Career Vision Approach".
5. Learning can also take place outside of conventional classrooms with blended learning and ICT.

Evidence of Success

1. The outcome of this practice is connected beyond curriculum development, faculty development

programs, developing better teaching practices, building industry partners for internship, having industry expert ecosystem with strong backup from management of engineering colleges. This consistent ecosystem should provide new thoughts and latest happenings in a motivating and thought-provoking manner.

2. Methodologies of ICT education is being adapted.

3. JBREC adapted Outcome-Based Education to enhance the student's performance.

4. Bringing the team spirit, social responsibility and learning ability to a higher level is the purpose of the interactive learning.

5. With the combined effort and commitment of the institution and faculties, the institution has achieved very good response. This has led to the increase in the quality of Teaching.

Problems Encountered and Resources Required

The classroom deliverables can be challenging since learning styles and retention varies across student fraternities.

File Description	Document
Link for Best practices in the Institutional web site	View Document

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:

The Vision, Mission and Quality Policy of the Institution are all oriented towards the holistic development of the student, which is evident during admissions. JBREC's focus has been to impart quality education coupled with overall development of the students. To achieve this, the Institution encourages students to participate in various activities:

1. **CISCO Networking Academy:** To be in sync with the exponential demand for skilled engineers, CISCO globally started collaborating with the finest of the fine Engineering colleges and JBREC CISCO Academy is an offshoot of CISCO's pursuit of knowledge-seeking partners. JBREC associated with Cisco in the year 2018, to empower students with problem-solving skills and transformative technologies.

JBREC's CISCO academy with the constant support of Management has flourished progressively in terms of aggressive training and crusading to upskill the student on par with International standards. JBREC CISCO Academy is committed to continue the legacy of quality, inspiration and widen the horizons of thinking.

2. SWAYAM-NPTEL: Our faculty members and students are getting registered with courses available in SWAYAM-NPTEL. It helps to get updated with the latest technologies and also bring out the self-learning initiative of the students.

3. IEEE Xplore Digital Library: Our faculty members and students are effectively utilizing IEEE Xplore Digital Library for their learning. Also, journal articles, conference proceedings help to engage in research activities.

4. Life skills through technology: Using technology in the classroom, our teachers and students are developing skills that are essential to be successful in the future. Important skills such as practical skills, including creating presentations, learning to differentiate reliable from unreliable sources on the Internet, maintaining proper online protocol, and writing emails are developed in the classroom through technology.

5. IIT Bombay Spoken Tutorial: The employment potential of our students is improved using spoken tutorial while teaching them programming skills. Open-Source software courses available in spoken tutorial are helpful to our students for getting placement, developing technical knowledge in advanced concepts and acquiring innovative skills for Research.

6. Virtual Lab: Virtual Lab is helpful for our students to enrich their technical knowledge in advanced concepts and acquire innovative skills, through remote experimentation. In Virtual Lab there are lots of tools available by which students learn practically and these tools helps them for learning, including additional web-resources, video-lectures, animated demonstrations and self-evaluation.

7. Providing Insurance to all students: The Institution provides Insurance to all students. Student Safety Insurance policies are offered to students and can be availed by educational institutions such as schools, colleges, etc. for the benefit of their students' parents. This policy is issued under the name of the educational institution and the claim is paid out to the guardian or parent of an affected student. Once the institution purchases a Student Safety Insurance, all the students in the institution will be covered.

Evidence of Compensated:

Name of the student	Branch	Date of Death	Insurance company name	Sanctioned amount	Date of sanction amount
R.Ravi Teja	Mechanical	22/08/2015	Bajaj Allianz	Rs.4,39,500	29/1/2016
P.Ravi Kiran	Mechanical	1/10/2016	National Insurance Company	Rs.5,00,000	2/5/2017
S.Raghuvansi	ECE	15/1/2017	National Insurance Company	Rs.5,00,000	03/01/2018
S.Manasa	ECE	9/5/2017	New India Assurance Company LTD	Rs.5,00,000	15/02/2018
K.Shiva Kumar	ECE	9/5/2017	New India Assurance Company LTD	Rs.5,00,000	15/02/2018

8. Enterprise Resource Planning (ERP): Online Academic Planning contains information regarding Course Plan, Completion Details, Gap Analysis, Teaching Aids/Methodologies linked with students' attendance of the sessions. JBREC maintains ERP Software and publishes its subject planning at the start of the academic year, then students can easily access the planning and plan their study accordingly. It is beneficial especially for those students who are preparing for competitive examinations to plan their study in advance. Students can view academic planning and attendance details in their account itself. Academic planning module is available on Students Online Dashboard both mobile and web portal. Every morning students will receive notifications on their android mobile applications according to their appropriate planning schedule.

9. Unnat Bharath Abhiaya (UBA): Unnat Bharat Abhiyan is inspired by the vision of transformational change in rural development processes by leveraging knowledge institutions to help build the architecture of an Inclusive India.

File Description	Document
Link for appropriate web in the Institutional website	View Document

5. CONCLUSION

Additional Information :

Joginpally B.R. Engineering College is situated in a 10.21-acre campus at a distance of 25 km from Hyderabad city. 18 institute buses shuttle every day enabling students' conveyance from all areas. 300 students are accommodated in separate hostels for boys and girls. The institute is a member of DELNET, NDL, and IEEE XPLORE to access e-books and journals. The library is automated through ILMS, KOHA software. The Department of MBA has been playing a proactive role in shaping the emerging corporate culture for our students.

Concluding Remarks :

Joginpally B.R. Engineering College is in a pollution-free rural environment. A good percentage of retention of faculty is being maintained. Round the clock Medical care is available in the college premises. Powerful industry & institution interaction and MOUs with premier industries and academic institutions are maintaining to enhance the knowledge and skill of faculty and students.