



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

JNTUH COLLEGE OF ENGINEERING

NACHUPALLY VILLAGE (KONDAGATTU), KODIMIAL MANDAL, JAGTIAL

DIST.

505501

www.jntuhcej.ac.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

April 2021

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

JNTUH College of Engineering, Jagtial (hereinafter referred to as JNTUHCEJ) is a constituent college of Jawaharlal Nehru Technological University, Hyderabad (hereinafter referred to as JNTUH) was established in the year 2007 as per the Gazette of State Government Act No. 30 of 2008.

The institution is located in a pollution free lush green environment surrounded by hills, resembling “GURUKULA”, the Indian traditional learning zone, where 90% of students and staff reside in the campus. It is geographically it is situated near a popular Kondagattu Hanuman Temple of Jagtial district in Northern Telangana state, about 200km away from the state capital, Hyderabad.

JNTUHCEJ offers five undergraduate programs (with an intake total 300) leading to B.Tech degree and five post graduate programs (with an intake total 90) leading to M.Tech degree under five disciplines respectively. JNTUHCEJ holds a position in top 5 institutions in the Telangana State. JNTUHCEJ imparts value based education and continues efforts were made in upholding quality practices. The college is well known for its state-of-art infrastructure consisting of advanced laboratories, well stacked library with digital resources and ICT facilities.

A dedicated and committed faculty team strive hard for realizing the VISION through well-defined MISSION. The institution is practicing Outcome based Education (OBE) since 2015 and successful in disseminating OBE culture in 360-degree. The institution owns a pride of workmanship to state that three UG Programs offered by EEE/ME/CSE departments have been accredited by NBA in the year 2019. As well, the institution has UGC recognition and obtained 2(f) & 12(B) status. Parents of students are happy about the discipline and security measures undertaken and students are happy as they are excelling well outside after graduating from the institution.

Vision



“The aspiration is to emerge as a premier institution in technical education to produce competent engineers capable of making valuable contributions in Engineering and Technology”

Mission



1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength



- More than 90% of students and staff reside in campus.
- Good visionary University to take the institution to highest levels of quality.

- Sound financial position of the university managing the institute.
- Transparent Governance and Administration.
- Highly qualified, committed, experienced faculty
- Faculty with higher qualifications.
- Good relation among Principal and Staff
- Good infrastructure with modern seminar halls, auditorium, laboratories etc.
- Trained supporting staff
- Good campus placements
- Meritorious students from EAMCET & other competitive exams
- Active Alumni Association. The alumni are in coveted positions both in India & abroad
- Student feedback system and students participation in hostel management activities
- Good Sports facilities.
- High Discipline Levels.

Institutional Weakness



- Location of the institution.
- Difficulties arising due to location pertaining to arrangement of guest lectures and trainers.
- Institution? Industry interaction.
- Industrial consultancy & applied research.
- Recruitment of regular faculty.
- Strengthening of professional bodies.
- Problems associated from hilly and forest area.

Institutional Opportunity



- Enhance research activities through sponsored R&D projects.
- Establishing the centre of excellence in emerging areas.
- Catering to all sections of the society.
- Establishing a continuing education cell.
- Alumni Networking for Academic and placement activities.
- Scope for tie up with institute of national and international repute such as IITs, NITs etc.

Institutional Challenge



Due to location disadvantage:

- Research and consultancy activities are at the jeopardy.

- Providing Internship programs to students.
- Attracting major and Core companies for campus recruitments.
- Safeguarding students and staff from wild animals.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

- Being a non-autonomous constituent college, JNTUHCEJ strictly adheres to the academic calendar pertaining to CIE as published by JNTUH University.
- Before the start of every semester, the academic committee meeting is convened by the Principal to discuss the various issues about the curricular delivery.
- The curriculum meets the industrial needs vis-a-vis inculcates the ethical and moral values in the students.
- The academic calendar is prepared by Department Advisory Board (DAB) and circulated to all the students.
- Based on the university and department academic calendars, IQAC prepares institution's academic calendar.
- The College believes in realizing the curricular aspects by defining Programme Outcomes, Programme Specific Outcomes and Course Outcomes that bring out the desired competencies expected.
- Curriculum review and development is done regularly to keep in pace with developments in respective fields to meet the requirement of academia, industry/ profession and society.
- Thrust on development of knowledge and skills are provided through various programmes in the college in addition to value added courses and value based education.
- The college has diverse range of course options catering to diverse range of learners in terms of Core options, Elective options and Add-on courses both at UG and PG levels.
- Courses relevant to Professional Ethics, Human Values and Environment and Sustainability are integrated in different programmes.
- During last five years, 46 value added courses are conducted and the average percentage of participated students in the Add on courses is 40.49%.
- During the current year 312 students undertook field projects/internships arranged by the institution and the average percentage of students' participation in these experiential learning methods for the present academic year is 30.27%.
- NSS organizes various environment related programmes like Earth Day, World Environment Day, plastic free drive, seminars and guest lectures on environmental awareness etc.
- The feedbacks are sought from various stakeholders' and the suggestions are implemented for continuous improvement in curriculum.

Teaching-learning and Evaluation

JNTUHCEJ attracts fairly good students through only common entrance examinations. JNTUHCEJ strives hard to design student-centric approaches and activities to address the individual requirements of different levels of students as they come from diverse socio-economic backgrounds and medium of instruction in schoolings.

Out of the total seats sanctioned 91.44% of students are admitted to the institution in the last five years, and 100% of seats are filled against seats reserved for various categories. The institution encourages students from diverse background. The slow learners and advanced learners are identified based on the student performance and special strategies are adopted to overcome the learning barriers.

Traditional teaching has been enriched with more innovative and creative ways of disseminating, sharing and facilitating knowledge development in students that includes workshops, technical seminars, group projects, quizzes, group discussions, and so on.

The department wise Mentorship is allotted to continue the student centric learning approach. The current year Mentor Mentee Ratio is 15:1. Learning experience of the students is enhanced with several fun filled, innovative and creative Teaching methods.

All members of the teaching fraternity are technologically literate and prefer the usage in the teaching process. Average teaching experience of the faculty in the institute is 8.38 years, which is an added asset for an institution. The teaching –learning modalities are rendered to students by incorporating the Bloom’s Taxonomy into the development of course and Programme outcomes. The Program specific outcomes and course outcomes are displayed on the website. The attainment of the program outcomes reflects in the internal assessment and the results. The pass percentage of students for current year is 79.29 %.

Many reforms are introduced in the internal assessment system and the system is made robust and transparent with clear guidelines. Standard procedures exist for examination related grievance redressal. Each faculty member is assigned with a batch of fifteen students for Mentoring to provide counselling, guidance and monitoring for their academic progress and other issues. An established feedback mechanism is in-practice for the evaluation of Teaching - Learning Process and thereby necessary corrective mechanism is initiated based on the suggestions/recommendations made in IQAC.

Research, Innovations and Extension

JNTUHCEJ has set up an innovation ecosystem to foster a culture of innovation among the young talents in the campus. The institution keeps up the ecosystem more vibrant and conducive with state of art infrastructure and suitable scholarly human resources. Research culture is promoted by establishing infrastructures such as Research and Development Cell.

R&D Cell helps students to transfer their innovative ideas into their projects. Institute encourages faculty and students to take up in-house and collaborative research projects in their domain expertise as well as in interdisciplinary areas. Institute encourages faculty members in authoring books, publications, newsletters.

Innovations among students are inculcated by focusing on the interplay of skills, experiences. For this reason experiential learning programmes-like workshops, seminars are conducted with an aim to place students in an environment where they are challenged to innovate. Number of extension and outreach programmes for students are conducted. The faculties help to enhance, improve and scale up this aspect of our educational programme by purposefully designing educational environments, for desired outcomes, including encouraging students to take risks and learn from failure.

Programmes to encourage industry-academia interface are regularly conducted. In pursuit of its service to community and society, Institute has set up NSS unit. Students are sensitized towards cleanliness, health,

environmental issues and they also participate in extension activities with NGOs to serve the neighborhood community. The students also host Blood Donation camps.

Extension activities instill a sense of meaning and significance to us. Extension programme help to develop the feeling of oneness, empathy and compassion. Learner develops a feeling that serving people in distress is true patriotism. These youth become an agent of social change, economic growth and innovations. 34 MOUs are signed with various organizations with the industry partners and institutes. Average percentage of students participating in extension activities during last five years is 63.07%.

Infrastructure and Learning Resources

Provision of adequate infrastructural facilities for Teaching and Learning has always been the top priority area of JNTUHCEJ. The campus is situated in 100 acres land in a clean and green environment. The College has state-of-the-art infrastructure and learning resources including ICT enabled classrooms, seminar halls, equipped laboratories, computer labs, library and other support facilities. The College has substantial infrastructure for sports and other extracurricular activities.

The College has an automated library with **23935** volumes and 3909 titles covering all disciplines, rare books, manuscripts and special reports and it has access to Learning Resources like e-journals, e-books, Shodhganga, e-Shodhsindhu and databases. Budget for infrastructure, library and other learning resources are earmarked annually based on the recommendations of respective committees.

The overall functioning of IT resources, review and up gradation of IT infrastructure is carried out annually according to plan and approval of Finance Committee. The college has student to computer ratio of 1:7 with 200 Mbps bandwidth for internet connection. Feedback is from stakeholders sought about infrastructure and learning resources and a continuous review is carried out by respective committees and the recommendations are integrated in the annual planning for upgrading, maintaining and utilizing physical, academic and support facilities. PG classrooms and laboratories are equipped with multimedia teaching aids. High-end equipment are available for regular experiments/ student projects and research. Other supporting facilities like hostel, playground and gymnasium are provided within the campus. The campus facilities are maintained through full-time staff appointed by the Management and by maintenance contractors.

Student Support and Progression

The Institute has a very good student support and progression system for around development of every student. The college supports students for applying scholarships and also certain free-ships provided for the needful students by the Government. The Average percentage of students benefitted by these scholarships and free-ships for the past five years is 62.38%. Guidance for Competitive Examinations and Career Counseling, soft skill development, Language labs are provided by the Institution. The Average percentage of students benefitted by these activities regarding guidance for competitive examinations and career counseling offered by the Institution during the last five years is about 58.85%.

Women Grievances Redressal committee organizes activities particularly on issues pertaining to 'gender sensitization', violence against women and legal provisions under the sexual harassment of women at workplace. As per the guidelines of the AICTE and parent University, Anti-ragging committee is constituted. Sincere, well behaved, disciplined and meritorious students are the additional members of the committee apart

from all faculty members. This committee looks into the matters of any ragging issues within and around the college premises.

The placement cell is proactive and has organized skill development, career guidance and campus drives to facilitate placements to the students. The average placement rate during the last five years is 39.58% and also nearly 162 students had been progressed to higher education during the last five years which results in 44.38% on an average. During the last five years, 182 students are qualified in state/ national/ international level examinations such as NET/GATE/TOEFL/Civil Services, etc. Sports and Cultural activities within the college and inter collegiate levels are held annually. During the last five years, 52 of our students had won awards/medals for their outstanding performance in sports/cultural activities inside and outside of the campus.

The JNTUHCEJ Alumni Association is formed with a view to create a platform that helps in improving student interaction and relation after completion of their course. It is all about enterprise, inspiration and mentoring by Notable Alumni.

Governance, Leadership and Management

The Vision, Mission, Goals and Objectives reflect the nature of Governance and decision making of the Institution. The Governance of the institution is carried out with the support of statutory bodies constituted as per the parental university norms. The participation of Teachers at different administrative tasks and actions is quite effective as expressive from that the Head of Institution with a great level of satisfaction whilst this decentralized Governance is easing out the responsibilities.

The strategic plan for the college is to develop, strengthen, and implement academic programs that are responsive to the JNTUHCEJ mission and are systematically reviewed for sustained quality, relevance, and excellence to meeting the challenges of a highly competitive and global workforce. Smooth functioning of any institution depends on the resolutions and minutes discussed in respective bodies/ cells/ committees. The Institution has constituted different cells and committees for the successful implementation of the resolutions.

JNTUHCEJ provides statutory and non- statutory welfare measures for the benefit of the faculty and the supporting staff. The IQAC being the central body within the college monitors and reviews the Teaching-Learning process regularly. The conclusions arrived at IQAC in its meetings after careful review; the policies are redesigned, and the procedures, plans and processes are reformulated to embed into the system for corrective actions or modifications wherever required.

Further, for the development of the institution in respect of quality enhancement, value addition and sustainability, the conceptual ideas obtained from the stakeholders are analyzed and synthesized and formulated, which in turn tailored to requirements. The JNTUHCEJ budget is prepared by the Principal every year taking in to consideration of both recurring and Non-Recurring expenditures. The IQAC suggestions that involve finance requirements are duly considered and put forward to respective academic heads.

JNTUHCEJ has the performance appraisal system in three-fold, the first is based on the students' online feedback. The second one is based on the results of examinations in the subjects taught and average pass rate. Finally, the third step is to assess self-appraisal form which is filled-in by the staff member. This is assessed by HOD, Vice Principal / IQAC-C and Principal.

Institutional Values and Best Practices

JNTUHCEJ has been taking various measures and good initiatives to create an environment in the campus to promote Gender Equity. With the cooperation of Voice 4 Girls, students are encouraged to educate rural girls.

JNTUHCEJ is functioning in a clean and lush green environment surrounded by hills. It can be regarded as GURUKULA (Traditional Schooling) as 90% of students stay in hostels. The college administration believes strongly in maintaining hygienic conditions in the campus by providing a clean environment to the residents. Institute always focuses on a peaceful, healthy and comfortable campus for all the students. Periodically, our Institution conducted Green, Energy and Environment Audits. Environment consciousness has made the college to maintain solid, liquid and e-waste management in a proper way.

JNTUHCEJ is a blend of communities diversified background based on regional, linguistic, communal and socioeconomic students are pursuing their studies. JNTUHCEJ understands the importance of inculcating tolerance and harmony among students to cope up and live with others with diversified backgrounds. The Institution as “JNTUHCEJ family” shows immense pleasure and responsibility in the aspect of tolerance and harmony. The institution takes much efforts and interest to empower education on moral and ethical values.

The objectives of higher education policies of the nation are clearly reflected in the institute mission of providing education to all by ensuring equity and increasing access to education. JNTUHCEJ supports two best practices as:

1. Biometric In/Out System with SMS alerts to Parents
2. Alumni Member for Counseling Services (AMCS)

Our Institution has a prescribed Code of Conduct for students, teachers which are displayed in the college website. The college maintains complete transparency in its financial, academic and auxiliary functions. For differently disabled students, our Institution has provided basic amenities such as ramps, wheel chairs, etc. The students of the college also takes active part in community service in and outside the college, which helps the students to develop a compassionate attitude towards others.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	JNTUH COLLEGE OF ENGINEERING
Address	NACHUPALLY VILLAGE (KONDAGATTU), KODIMIAL MANDAL, JAGTIAL DIST.
City	JAGTIAL
State	Telangana
Pin	505501
Website	www.jntuhcej.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	N Venkata Ramana	08724-206600	6302503548	08724-20660 2	cej@jntuh.ac.in
IQAC / CIQA coordinator	Nvs Raju	08724-206604	8712118828	08724-20660 5	envioursraju@gmail .com

Status of the Institution	
Institution Status	Government

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	01-01-2007

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	13-10-2017	View Document
12B of UGC	13-10-2017	View Document

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	30-04-2020	12	

Details of autonomy

Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No
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Recognitions

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

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	NACHUPALLY VILLAGE (KONDAGATTU), KODIMIAL MANDAL, JAGTIAL DIST.	Rural	100	46969.37

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,Electrical And Electronics Engineering	48	Intermediate	English	60	57
UG	BTech,Mechanical Engineering	48	Intermediate	English	60	57
UG	BTech,Electronics And Communication Engineering	48	Intermediate	English	60	54
UG	BTech,Computer Science And Engineering	48	Intermediate	English	60	55
UG	BTech,Information Technology	48	Intermediate	English	60	56
PG	Mtech,Electrical And Electronics Engineering	24	B.Tech	English	18	15
PG	Mtech,Mechanical Engineering	24	B.Tech	English	18	14

PG	Mtech,Electronics And Communication Engineering	24	B.Tech	English	18	17
PG	Mtech,Computer Science And Engineering	24	B.Tech	English	18	18
PG	Mtech,Information Technology	24	B.Tech	English	18	15

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	16				7				68			
Recruited	13	3	0	16	6	1	0	7	49	19	0	68
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				13
Recruited	2	0	0	2
Yet to Recruit				11
Sanctioned by the Management/Society or Other Authorized Bodies				0
Recruited	0	0	0	0
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	1	0	0	1
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				0
Recruited	0	0	0	0
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.	13	3	0	3	1	0	8	3	0	31
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	3	0	0	3	5	0	11

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	38	11	0	49

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	143	3	0	0	146
	Female	138	1	0	0	139
	Others	0	0	0	0	0
PG	Male	38	0	0	0	38
	Female	39	0	0	0	39
	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	30	28	29	31
	Female	32	37	25	27
	Others	0	0	0	0
ST	Male	19	20	16	16
	Female	13	12	9	11
	Others	0	0	0	0
OBC	Male	103	98	107	110
	Female	98	91	95	89
	Others	0	0	0	0
General	Male	18	28	23	24
	Female	22	26	25	31
	Others	0	0	0	0
Others	Male	11	10	11	9
	Female	12	10	11	10
	Others	0	0	0	0
Total		358	360	351	358

Extended Profile

1 Program

1.1

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

2019-20	2018-19	2017-18	2016-17	2015-16
492	481	527	473	426
File Description		Document		
Institutional data prescribed format		View Document		

1.2

Number of programs offered year-wise for last five years

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

2 Students

2.1

Number of students year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
1349	1332	1336	1368	1359
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

2019-20	2018-19	2017-18	2016-17	2015-16
225	225	225	225	225

File Description	Document
Institutional data in prescribed format	View Document

2.3

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

2019-20	2018-19	2017-18	2016-17	2015-16
365	360	380	387	359
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

2019-20	2018-19	2017-18	2016-17	2015-16
89	88	93	91	87
File Description	Document			
Institutional data in prescribed format	View Document			

3.2

Number of sanctioned posts year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
100	100	100	100	100
File Description	Document			
Institutional data in prescribed format	View Document			

4 Institution

4.1

Total number of classrooms and seminar halls

Response: 32

4.2

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

2019-20	2018-19	2017-18	2016-17	2015-16
1321.1	686.84	576.82	522.20	359.55

4.3

Number of Computers

Response: 684

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:

The effectiveness of the curriculum delivery mechanism adopted in JNTUHCEJ is evident in respect of attainment of the program outcomes.

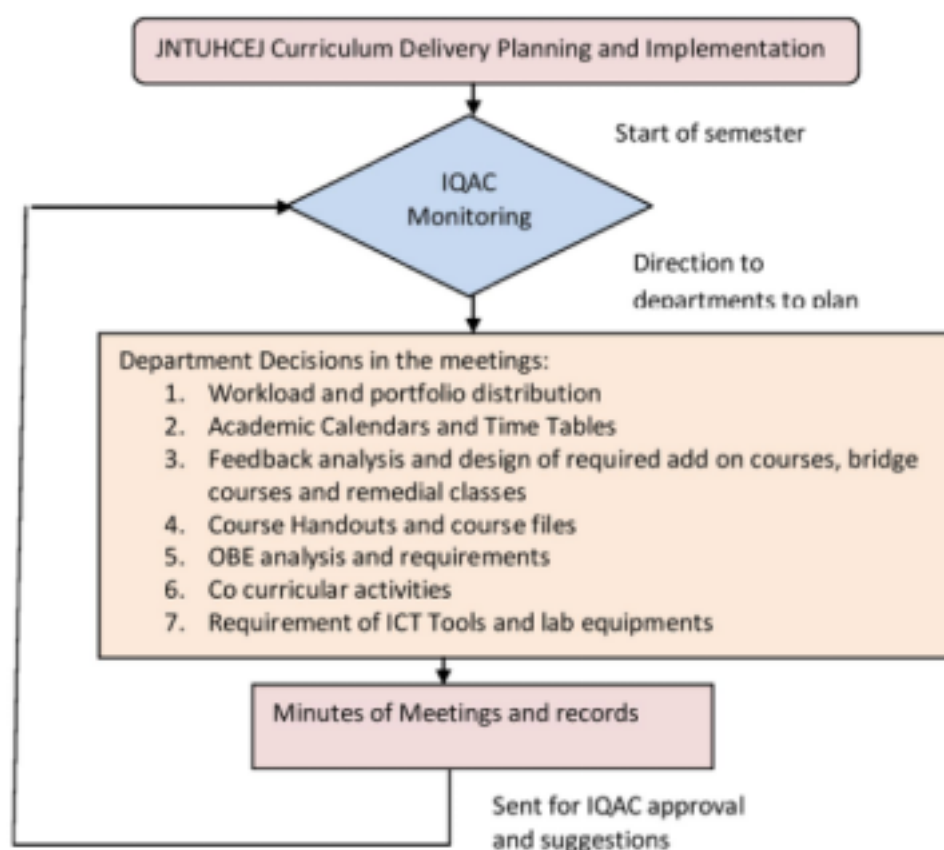
1. Curriculum Analysis: Being a non-autonomous constituent college, JNTUHCEJ follows the curriculum provided by JNTUH, which is an optimal blend of Basic Sciences, Humanity & Social Sciences, Core/Elective, multi disciplinary courses, project works as per the AICTE guidelines. The curriculum meets the industrial needs and also inculcates the ethical and moral values to the students.

2. Curriculum Delivery Plan: Before the start of every semester, the academic committee meeting is convened by the Principal to discuss the various issues about the curricular delivery. Similarly Head of the department conducts a meeting with the entire faculty to plan and review academic related issues.

Academic Planning and Review Issues:

- Design of academic calendar and Class Time tables.
- The requirement of lab equipment, additional labs and maintenance of lab equipment needs to be planned well before the relevant course begins.
- Based on the attainment values of all PO/PSOs obtained, the members discuss the requirement of add on courses, content beyond syllabus and self learning methodologies in tune with attainment of values of POs in respect of department VISION, MISSION and PEOs.
- The HODs give an opportunity to the faculty for the course choice of their interest. Based on the specialization of the faculty, importance of the subject and student feedback about the faculty, the HOD allocates the courses among them.
- The requirement of text books in the department and main library, e-content and other self learning tools needs to be well planned. This requirement shall be sent to principal through IQAC.
- The curriculum feedback collected from the stakeholders, course outcomes and the result analysis helps in estimating the requirement of any bridge or prerequisite courses.
- Based on the result analysis and feedback analysis, the members discuss various issues such as: issues regarding the faculty and students and supporting mechanisms for slow and advanced learners.

3. Maintenance of records and documents: The Minutes of Meetings is sent to Principal after obtaining IQAC approval. After the due approval, procurements or any other financial related issues will be sent by the principal to purchase committee to prepare the budget estimation for university approvals. All the records are maintained by the departments with the required permissions and sanctions the purchases are carried out.



File Description	Document
Upload Additional information	View Document

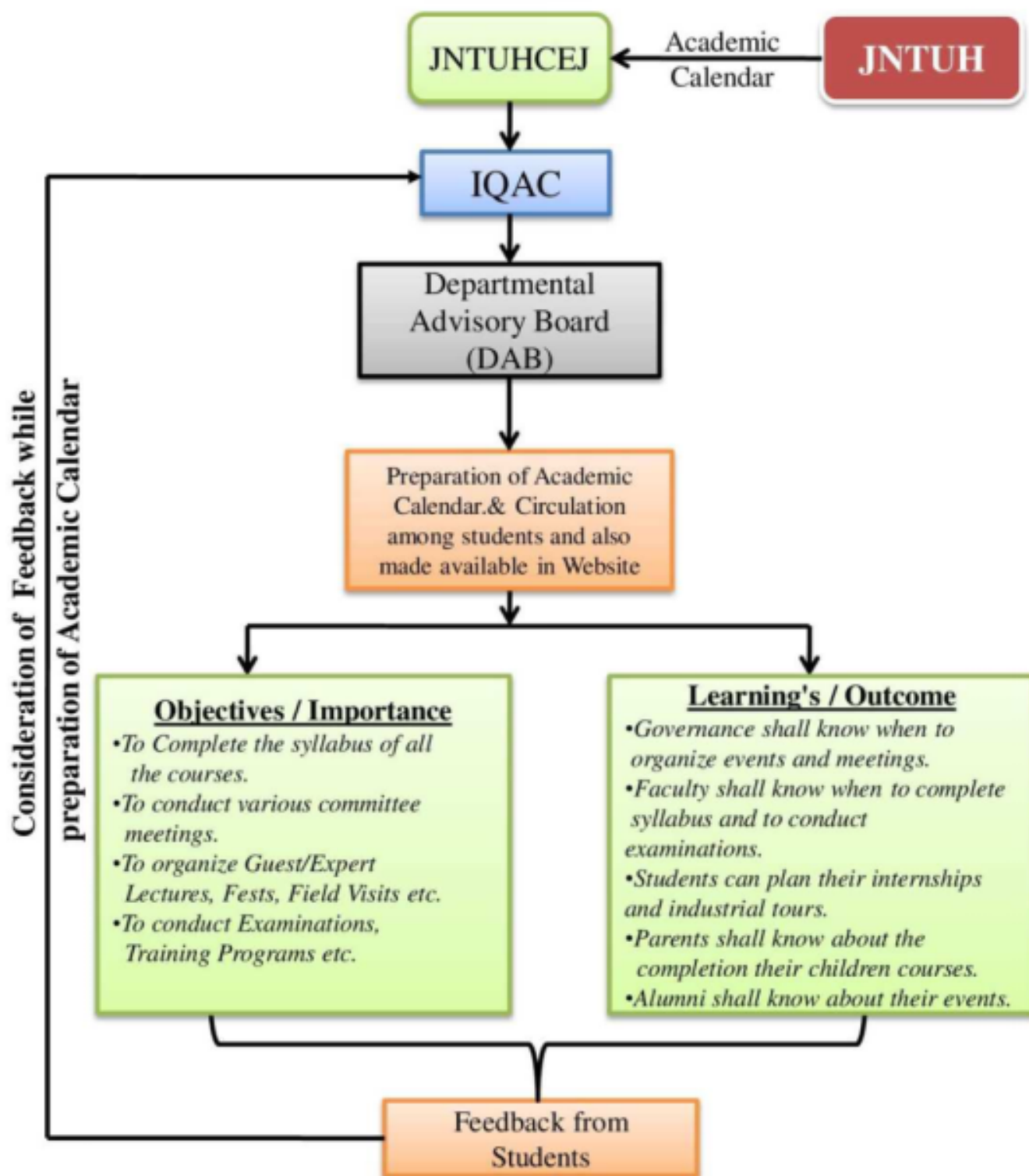
1.1.2 The institution adheres to the academic calendar including for the conduct of CIE

Response:

JNTUHCEJ adheres strictly to the academic calendar pertaining to CIE as published by JNTUH University. In addition, the institution and departments design their own academic calendars in tune with JNTUH Academic calendar.

Significance of academic calendars

The institution being an affiliated college, has been supplied with academic calendar every year by the University for Conduct of class work and examination that includes both **internal and external examinations**. In addition to them, numbers of events have to be taken up at the institution and department levels to organize curricular, co-curricular and extra-curricular activities. This necessitates for the preparation of institution's and department's academic calendars. Institution's academic calendar includes the events of University academic calendar and the department's academic calendar includes both of them.



The origin of the academic calendars

The academic calendar is prepared by Department Advisory Board (DAB) and circulated to all the students and made available on the website. Based on the university and department academic calendars, IQAC prepares institution's academic calendar.

The process of preparation of academic calendars

Soon after the university provides academic calendars of UG B.Tech First, second, third and final year and PG M.Tech programs, the IQAC directs the departments to prepare their academic calendars. This usually happens every year in the months of June/July before the start of academic year.

Levels of Academic Calendars

Academic Calendars have two levels. The first level is for the first semester and second level is for the second semester.

Objectives of Academic Calendars

- *To complete the syllabus of all the courses in time.*
- *To conduct various committee meetings.*
- *To organize Guest/Expert Lectures, Fests, Field Visits etc.*
- *To conduct Examinations, Training Programs etc.*

Learning from Academic Calendars

The academic calendars prepared by the departments and the institution have been made available in the institution website every year. The governance, faculty, students, non teaching staff, parents and alumni are able to have easy access to these academic calendars.

Learning from Academic Calendars:

- Governance knows when to organize events and meetings.
- Faculty can plan the completion of syllabi in time and can conduct examinations and schedule accordingly.
- Students will be eased to planning their internships and industrial tours.
- Parents will be aware of the completion of their children courses.
- Alumni can understand and plan about their events and plan accordingly.

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: 10

File Description	Document
Minutes of relevant Academic Council/ BOS meetings	View Document
Institutional data in prescribed format	View Document

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

Response: 46

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

2019-20	2018-19	2017-18	2016-17	2015-16
10	10	9	10	7

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: 40.49

1.2.3.1 Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
616	600	551	637	425

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:

The program outcomes PO6, PO7, PO8 and PO9 are difficult to achieve unless some crosscutting issues related courses were not introduced. The Crosscutting issues like Gender equality, Environment and Sustainability, Human Values and Professional Ethics are well addressed in the Curriculum provided by JNTUH, and is listed below:

Program Name	Course Code	Core Course Name
R13 & R15 II B.Tech	A40009	Environmental Science
R13 & R15 III B.Tech	A50018	Human Values and Professional Ethics
	A50017	Intellectual Property Rights
	A50117	Disaster Management
R16 I B.Tech	EA109MC	NSS
	EA209MC	NCC/NSO
R16 II B.Tech	MC300ES	Environmental Science and Technology
	MC400HS	Gender Sensitization Lab
R16 III B.Tech	MC500HS	Professional Ethics
R18 I B.Tech	MC109ES/MC209ES	Environmental Science
R18 II B.Tech	MC309/MC409	Gender Sensitization Lab
	MC309/MC409	Constitution of India
R18 III B.Tech	MC510	Intellectual Property Rights

	MC609	Environmental Science
R19 I M.Tech	MC	Research Methodology and IPR
	Audit Course – I & II	1. English for Research Paper Writing 2. Disaster Management 3. Sanskrit for Technical Knowledge 4. Value Education 5. Constitution of India 6. Pedagogy Studies 7. Stress Management by Yoga 8. Personality Development through Life Enlightenment Skills

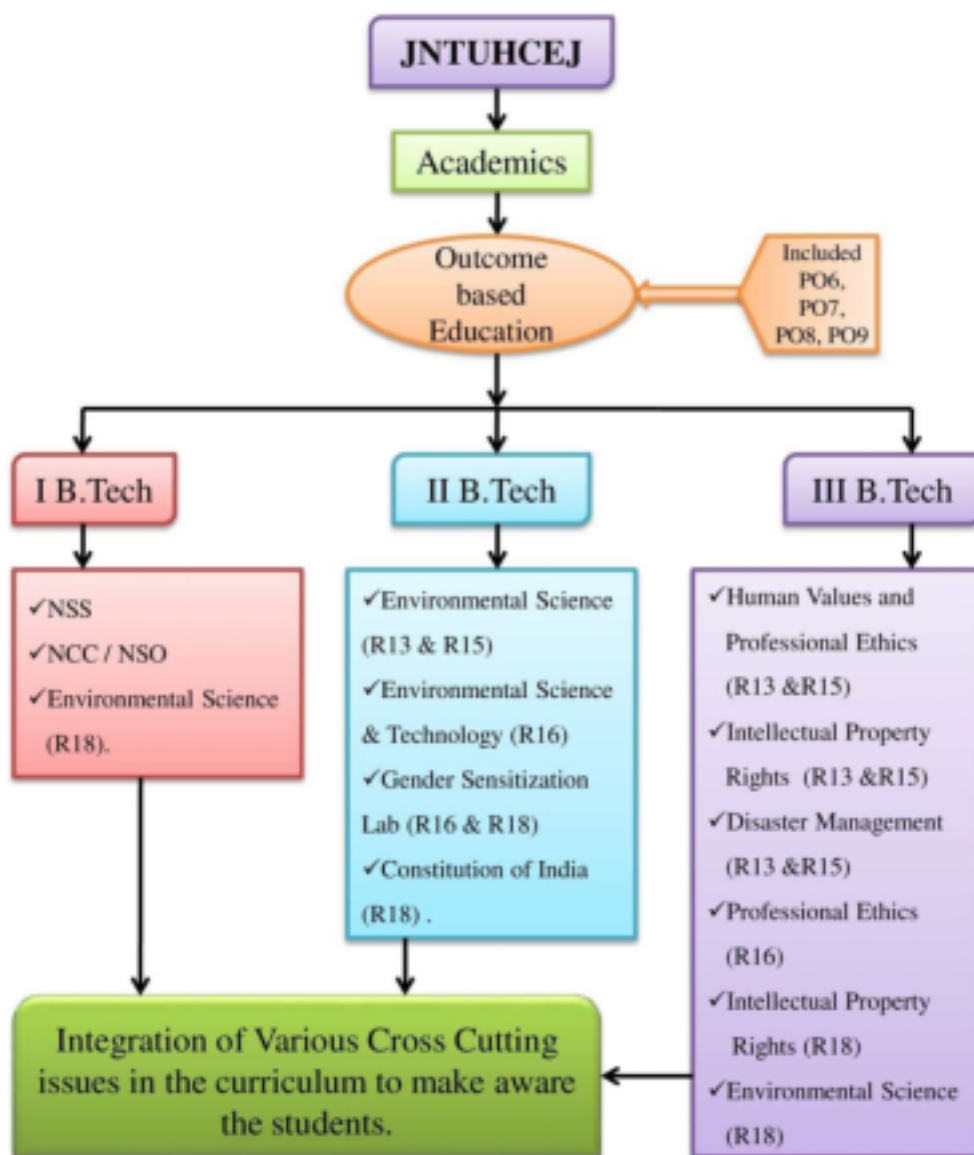
Essence of Cross Cutting Issues in University Curriculum:

1. Professional Ethics and Human values

To promote professional ethics and human values among the engineering graduates JNTUH has introduced Human Values and Professional Ethics, Intellectual Property Rights as a credit course and Professional Ethics, Research Methodology and IPR, Constitution of India, NSS, NCC/NSO as audit courses for under graduation.

Similarly from R19 regulation onwards, audit courses have been introduced in post graduation like English for Research Paper Writing, Sanskrit for Technical Knowledge, Value Education, Constitution of India, Pedagogy Studies, and Personality Development through Life Enlightenment Skills.

- These courses enable students to know fundamental rights, directive principles, and also the duties and responsibilities as good citizens.
- The course on 'professional ethics and human values' deals with the ethical aspects for the prosperity of organization and personal development of students.
- The college organizes NSS programmes to inculcate human values and to enhance the character of the students.



2. Gender Equality

JNTUH curriculum includes Gender Sensitization Lab and provides ample number of opportunities to the female staff/students and treats all the gender with the same respect.

- Institute understands the importance of Gender Equality and thus maintains good relation with women to men workforce.
- Institute has provided separate hostel for boys and girls with good infrastructure.

3. Environment and Sustainability

- Environmental studies are a part of JNTUH curriculum which provides information about ecology and environmental issues regarding air, land, and water.
- NSS unit took initiation for planting of good number of plants and to make environment green and pollution free.
- NSS organizes various environment related programmes like Earth Day, World Environment Day, plastic free drive, seminars and guest lectures on environmental awareness etc.
- Disaster Management provides a fair know-how on the natural/ manmade disasters, their occurrence, precariousness as well as mitigation for the social wellbeing.

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

1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years

Response: 81.45

1.3.2.1 Number of courses that include experiential learning through project work/field work/internship year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
410	400	401	377	362

File Description	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

1.3.3 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

Response: 27.58

1.3.3.1 Number of students undertaking project work/field work / internships

Response: 372

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
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
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: 91.44

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

2019-20	2018-19	2017-18	2016-17	2015-16
358	360	351	358	356

2.1.1.2 Number of sanctioned seats year wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
390	390	390	390	390

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: 91.02

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

2019-20	2018-19	2017-18	2016-17	2015-16
216	217	194	202	195

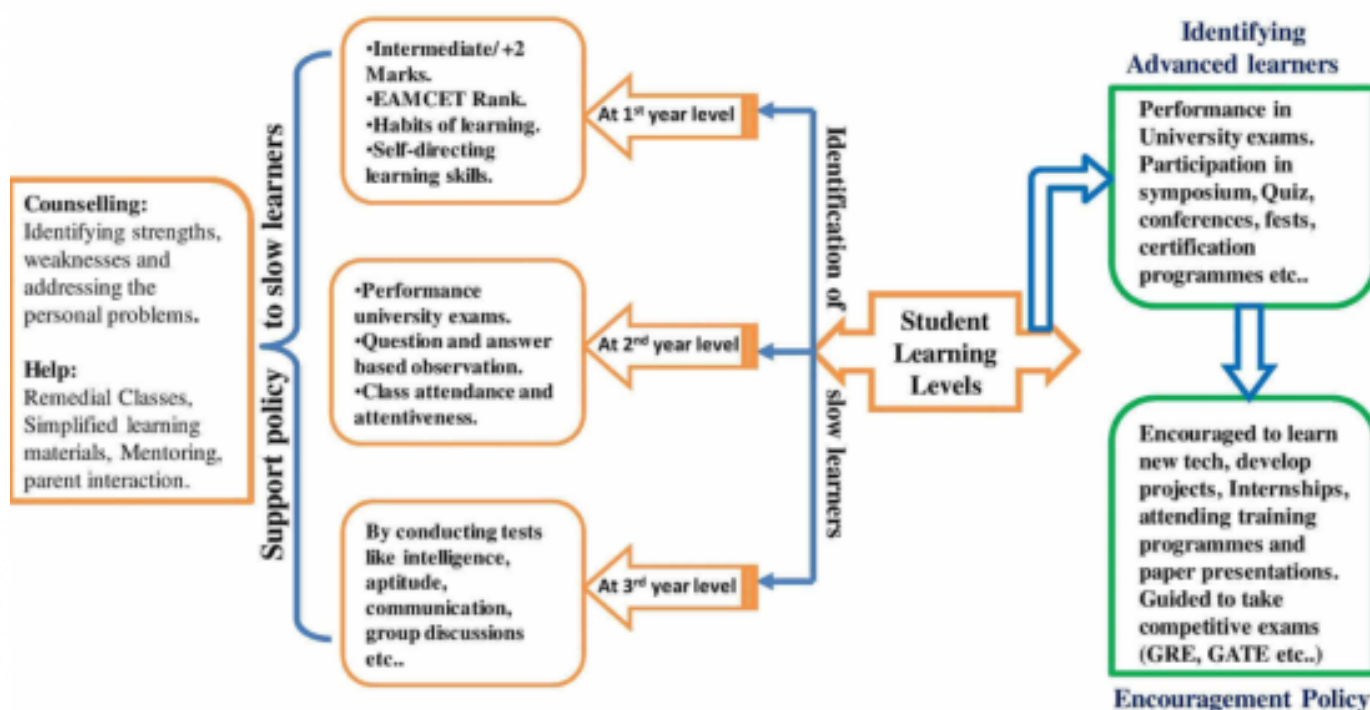
File Description	Document
Average percentage of seats filled against seats reserved	View Document
Any additional information	View Document

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:

JNTUHCEJ attracts fairly good students through only common entrance examinations. JNTUHCEJ strives hard to design student-centric approaches and activities to address the individual requirements of different levels of students as they come from diverse socio-economic backgrounds and medium of instruction in schoolings. Based on their background, language proficiency, confidence level, competency, learning level, etc., also vary.



IDENTIFICATION OF SLOW LEARNERS

At the First Year Level:

At this level, the students would be academic oriented.

Slow learners are identified based on the score obtained in Intermediate /10+2 and rank in the EAMCET entrance examination.

In the process, the slow learners are identified by finding their weaknesses such as:

- Finding self-directing learning skills of students.
- Habits of learning very slowly and forgetting quickly.

At the Second Year Level:

At this level, the students must be academic oriented.

Slow learners are identified:

- Based on their performance in university examinations of previous semester and internal examinations.
- By posing few oral questions and observing the responses given by the students.
- Based on their class attendance and attentiveness in the class.

At the third year, final year and PG level:

At this level, the students need to be career oriented.

Slow learners are identified by:

- Conducting intelligence tests.
- Conducting aptitude tests, communication, group discussions and presentation skills.

SUPPORT POLICY FOR SLOW LEARNERS:***Mentoring / Counseling:***

Every student is asked to fill up the counseling form. This gives an idea for the mentor to understand the strengths and weaknesses of the students. Students who have the personal problems that hamper the student's professional growth are paid special attention.

Mentorship:

They are provided with simplified learning materials and model question papers.

- Remedial classes are conducted by the faculty to those who have backlogs in the examinations.
- Mentors keenly observe the academic performance to assist the student by resolving the issues that affect their ability to learn or impede their academic success.
- Poor performance and frequent absenteeism are informed to parents through phone calls, SMS and Letters.

IDENTIFICATION OF ADVANCED LEARNERS

Advanced learners are identified based on the performance in the university examinations of previous semesters and internal examinations.

In addition to this:

- Participation of students in various symposiums like quiz, conferences, fests etc.,
- Active participation of students in competitive exams and other certification courses.
- Students who are actively engaged in paper presentation, cultural, extra-curricular and research

competitions.

ADVANCED LEARNERS ENCOURAGEMENT POLICY

- Advanced learners are provided a platform to showcase the multifarious talents to organize technical events.
- They are encouraged to learn new technologies, develop projects, internships, training programs & competitions, National and International Paper Presentations, etc.
- They are also guided to take up additional online courses like NPTEL, MOOCs, Microsoft certification, etc.,
- They are also encouraged to take up competitive exams like GATE, GRE, TOEFL, IELTS, etc. Self learning material is procured and is arranged in the Library.

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: 16:1

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:

JNTUHCEJ Faculty members, over last few years, are shifting the focus to a student- centric learning process. In addition to conventional teaching-learning process, the focus on knowledge transfer is designed through active participation and involvement of students.

1. EXPERIENTIAL LEARNING

This is the most important learning experience for both students and faculty. Experimental learning is being practiced in the institution:

By providing additional equipment in the laboratories:

Departments are provided with lab equipment beyond their curricular needs. For example, a B.Tech (EEE) student is provided with a Rs.30 Lakh worth transmission line simulator to understand the performance of transmission line. Wherever necessary, cut section views are procured for better understanding of the exact

systems. Few more examples: 3D Printing, IOT Lab, Spectrum Analyzer etc.

By way of carrying out the Project works:

Project work is organized in two phases: 1. Mini Project and 2. Major Project. The mini project is mostly field project. Students work on application of theory through projects/model building/simulation in the form of design and fabrication of some systems. It helps to bridge the gap between theoretical concepts and its practical applications. The effective phases of survey, case study, implementation, testing and report writing ensure the required project-based learning among the students. Some subjects are augmented with learning through implementation of mini-projects. It is mandatory for a PG Student to get his project work be published for award of the degree. This keeps student ideas to evolve towards research.

By way of Organizing Technical Fest:

SIZZLE is organized every year where the students from various other engineering colleges come and participate in Project Expos.

2. PARTICIPATIVE LEARNING

Active learning: The faculty adopts active learning by involving students in the learning process more directly through the activities like Brain storming, model making, presentations, essay writing, and simulations on technical content, use of technological tools like App development for course delivery or assessment, debugger tools, etc. In the present scenario, slow learners are also admitted. Students are also encouraged to attain NPTEL/MOOCs certification courses.

Collaborative Learning: This is implemented by forming student teams, working together to solve a problem, complete a task/project, participating in debates or design a product. Every year the institution organizes project expos that create a platform for the student to exhibit their practical skills.

Inquiry-based Learning: The institution provides e-resources that help students and encourage searching and making use of resources beyond the classroom for investigation of open questions/problems, developing their critical thinking and increasing understanding levels by conducting review of research papers, surveys, etc.

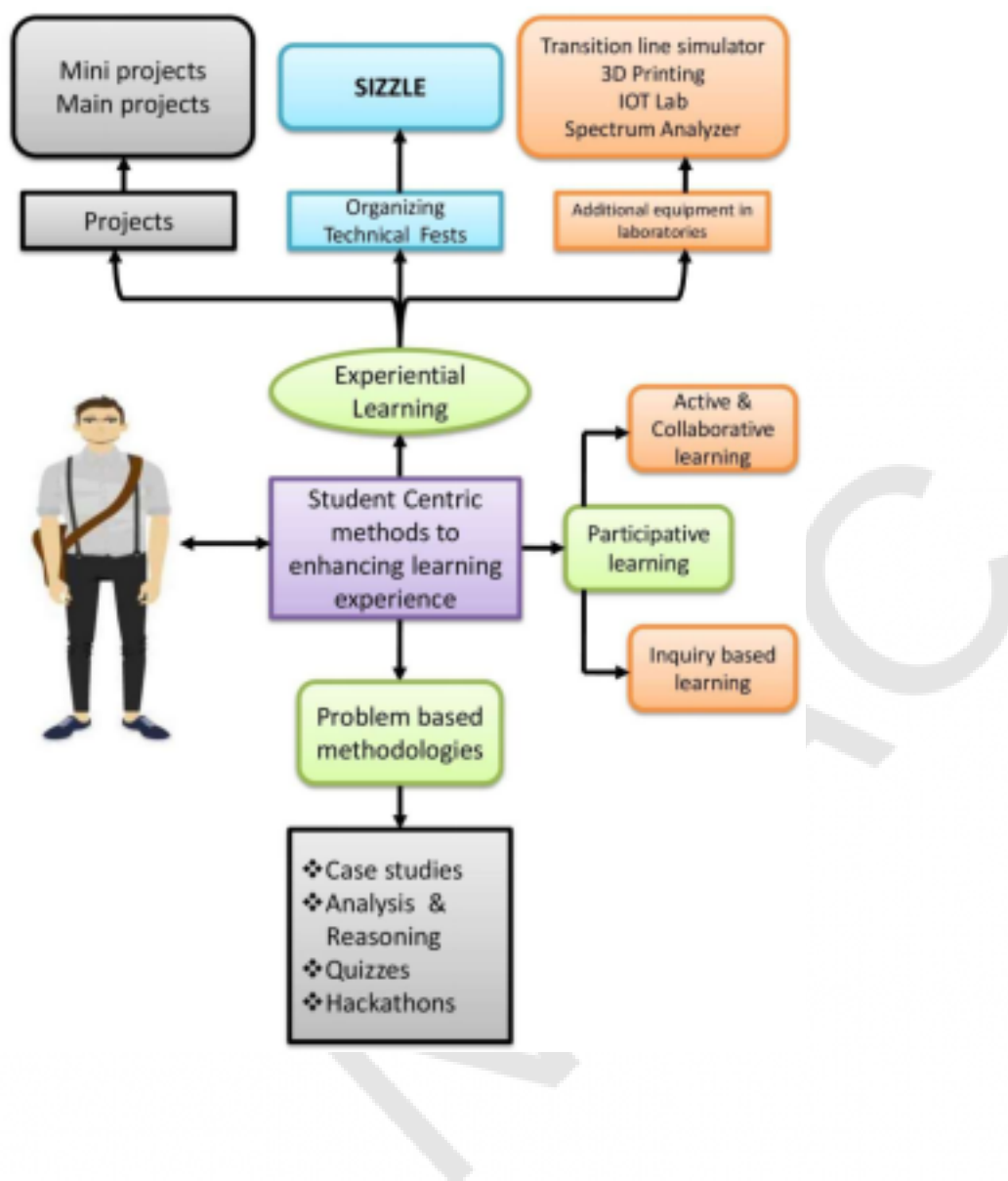
3. PROBLEM BASED METHODOLOGY

Case Studies: Case study method is adopted in teaching learning process to make the students have logical thinking and practical knowledge to develop problem solving.

Analysis and Reasoning: The Training and Placement Cell in association with TCS/TASK conducts aptitude classes and programming classes.

Quizzes: Quizzes are conducted by subject teachers in the programs.

Hackathons: The J-Cell of the institution organizes college level Hackathons and invites the students to submit their technical ideas.



File Description	Document
Upload any additional information	View Document

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

Response:

JNTUHCEJ Teachers use ICT for effective teaching with Learning Management Systems, e-learning resources etc. The following are the ICT enabled tools used for effective Teaching-Learning Process:

TECHNOLOGY ASSISTED LEARNING MANAGEMENT SYSTEM

1.LCD Projectors, Internet and Computers

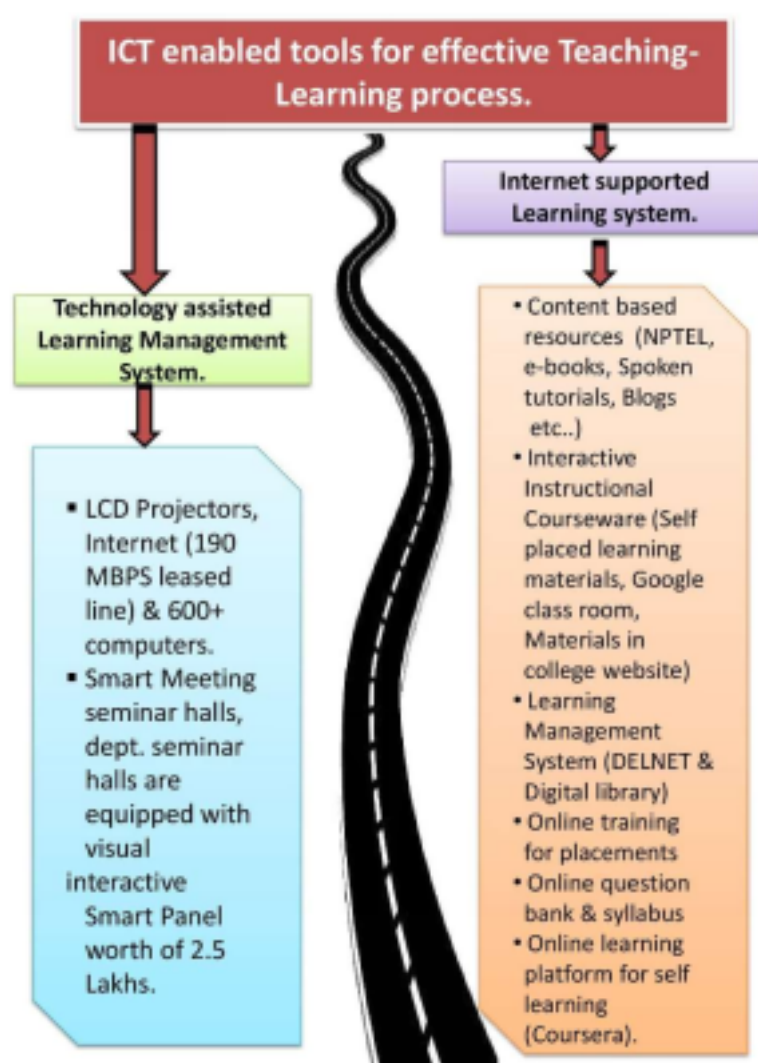
All the classrooms are equipped with LCD projectors and internet enabled computers. The Institute has 190 Mbps leased line with 600+ computers connected through LAN and Wi-Fi. Lecture capturing and editing facilities are in place. Teachers are expected to create a new flexible and open learning environment with interactive, experiential and multimedia based delivery system.

2. Smart Meeting Seminar Halls

Department Seminar Halls are equipped with Audio-Visual interactive smart panel boards each worth of about Rs.2.5 Lac.

3. Media Center;

The institution has media center for recording the videos of faculty delivered lectures.



INTERNET SUPPORTED LEARNING SYSTEM

Content- based resources: Students and faculty can access a vast supply of educational resources that effectively can be integrated with the curriculum objectives e.g. NPTEL-SWAYAM, Blogs, and SPOKEN TUTORIAL. 24/7 Computer Center and Digital Library are made available for the faculty and students to search for the various e-books and journals. Online spoken tutorials are provided through IIT, Bombay. The institution has an agreement with IIT, Bombay.

Interactive Instructional Courseware: Self learning materials e.g. Google Class Room, Video Lectures, course material is made available to students through college website for students.

Learning Management Systems:

The **electronic resource packages** like DELNET, NPTEL, and Digital Library are available. The faculty members effectively utilize Audio Visual aids to demonstrate the concepts to the students using the resources from NPTEL to enhance the learning experience.

Online Training for Placements: Online competitive coding development for employment purpose is provided through FACE Academy, Hyderabad. The institution has an agreement with FACE Academy, Hyderabad. The FACE academy provides online guidance for training in Aptitude, Technical and Personal competencies.

Online Question bank and Syllabus:

Students are provided with digital form of previous year question papers and syllabus.

Online learning plat form for self learning modules:

Online certification course offered by **Coursera** is provided for student benefit.

Online Library Resources: The campus library is virtually centralized and offers access to thousands of books, reference books and e-journals. Library has 555 e-journals (Taylor's & Francis). Online GATE material is also available.

Online book tracking:

Library book tracking software – OPAC (Online Public Access Catalogue)

Online Generic tools for learning: Starting from productivity tools to simulation & modeling to access, extend, transform and share information e.g. licensed and open source software for lab and projects.

File Description	Document
Upload any additional information	View Document

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

Response: 15:1

2.3.3.1 Number of mentors

Response: 89

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: 91.6

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: 35.8

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

2019-20	2018-19	2017-18	2016-17	2015-16
32	32	34	34	32

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: 8.42

2.4.3.1 Total experience of full-time teachers

Response: 749

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:

CIE assessment:

Theory subject:

For the theory subjects there will be two midterm examinations. Each CIE consists of one objective paper for 10Marks, one descriptive paper for 10 Marks and one assignment for 5 marks. The total marks secured by the student in each mid-term examination are evaluated for 25 marks, and the average of the two shall be taken as the final marks for CIE. For mandatory courses like ES, CoI, IPR and GS Lab, student has to secure a minimum of 40 out of 100 marks in the CIE for passing the subject/course.

Lab course:

For practical subjects the CIE is for 25 marks and Out of the 25 marks, day-to-day work in the laboratory shall be evaluated for 15 marks and internal practical examination shall be evaluated for 10 marks.

Mini Project work:

There shall be no internal marks for Industrial Oriented Mini Project/Summer Internship.

Major Project Work:

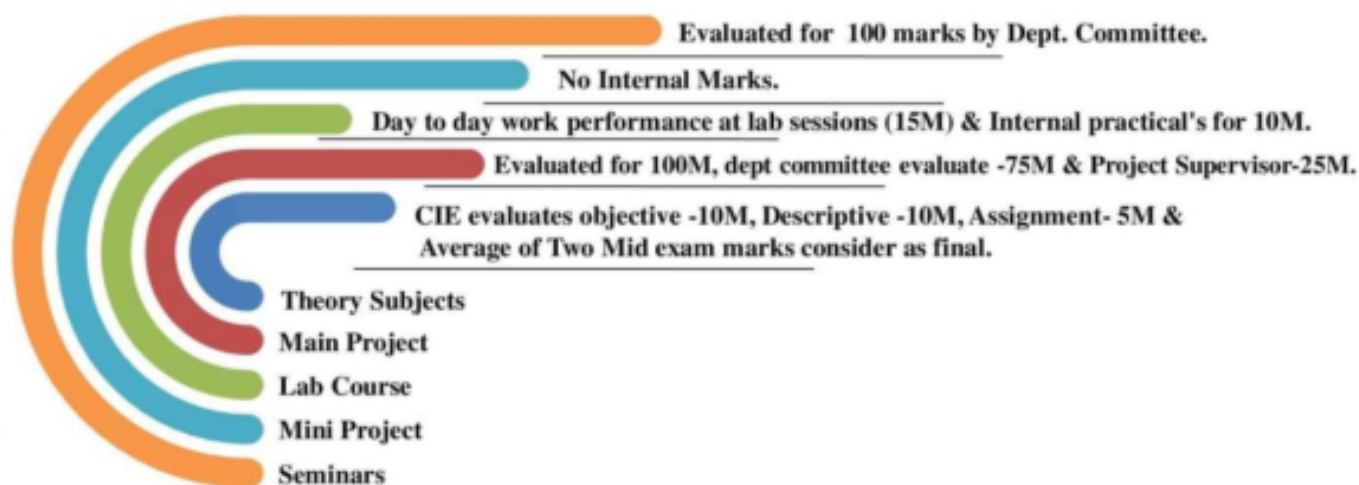
UG project work shall be carried out in two stages: Project Stage – I during IV Year I Semester, Project Stage – II during IV Year II Semester. Each stage will be evaluated for 100 marks.

For Project Stage – I, the departmental committee shall evaluate the project work for 75 marks and project supervisor shall evaluate for 25 marks.

For Project Stage – II, the external examiner shall evaluate the project work for 75 marks and the project supervisor shall evaluate it for 25 marks.

Seminar:

The seminar report shall be evaluated for 100 internal marks by the department committee based on the seminar presentation.

**Transparent Initiatives:**

- Preparation of Question papers on Course Outcomes and Bloom's Taxonomy as per the OBE process.
- Valuated scripts duly give to students for their verification.
- 2% of total scripts verified by HoD & Principal.

TRANSPARENT INITIATIVES AT INSTITUTE LEVEL

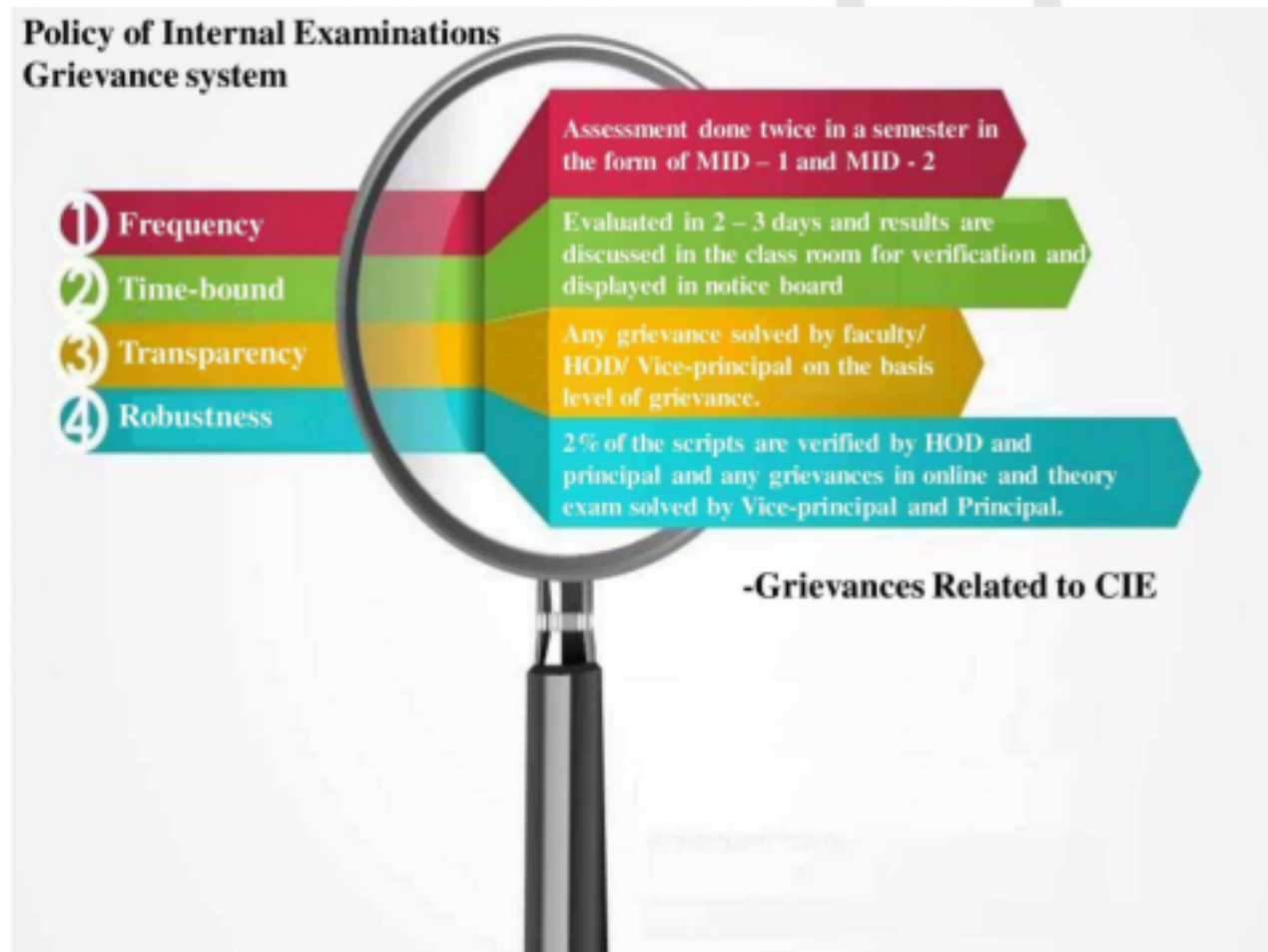
- Examination Branch prepares the time table for IATs and circulates to all the departments.
- Seating arrangement is prepared in such a manner that malpractices are thoroughly avoided.
- The rubrics for the evaluation of IATs are displayed on the notice boards for student reference.
- The CIE exam question paper is prepared based on course outcomes and Bloom's Taxonomy as per the OBE Process.
- The valued scripts are duly given to students for their verification and any discrepancy in the valuation shall be brought to the faculty by the student immediately.
- The CIE Marks awarded for laboratory experiments are assessed on daily basis.
- 2% of total valued scripts are verified by the Head of the Department and the principal.
- The subject teacher briefs the students in the classroom about their attendance and performance in the internal examinations.
- Continuous assessment report for all the courses is displayed in respective department notice board every month.
- At the end of each semester, The Principal verifies the CIE marks of all the students.
- CIE marks are conveyed to parents after the display, through SMS and counselors.
- All the records and data bank of attendance in internal Examinations, Question papers, valued answer sheets/copies, summary of marks sheets, are properly maintained by the teachers for academic monitoring/academic audit.

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 mechanism to deal with examination related grievances in the college is two-pronged as it has to cater to those related to the internal evaluative process as well as semester, end examinations conducted by the JNTUH University in which JNTUHCEJ students have to appear in order to successfully complete their programme of study. The institution adopts reforms that are initiated by the university.



Grievances related to university examinations

For the university level examinations, if any student realized scoring less than expected, then he/she can express the grievances to the university within the stipulated time by following the university guidelines. There are three kinds of redresses as follows:

1. Recounting (RC): The totals of marks in the valued scripts are verified and also checked if any answer is not valued.

2. Revaluation (RV) : The scripts are valued again and if there is any variation of more than 10% then it is rectified with the new marks and the result is re-declared with the new marks. If the variation is less than 10% then, the result is declared as no change.

3. Challenge Valuation (CV): If RC/RV result is not satisfactory to the student then, he/she can opt for challenge valuation with a prescribed fee and format by which the scripts will be revalued in presence of the student and subject expert of the field by the Director of Evaluation. If the CV is successful about 90% of fee paid will be refunded and the result is declared with the new marks.

Grievances related to CIE

The institution takes steps to ensure that this mechanism for examination related grievance redresses in both levels of its operation is transparent, prompt, time-bound, robust and efficient.

Frequency: Assessment takes place twice in semester in the form of MID-I and MID-II examinations.

Time-bound: Answer scripts are evaluated within 2 to 3 days, the results are discussed in the class room for verification and marks are displayed in the department notice board.

Transparency: If the student has any grievances like awarding less mark, papers not evaluated properly, counting mistakes and attendance of the students are verified by the respective subject teachers. The valued scripts are duly given to students for their verification and any discrepancy in the valuation shall be brought to the faculty by the student immediately. If he/she is not satisfied, the issue may be represented to the vice-principal through the HOD concerned for redressing.

Robustness: 2% of total valued scripts are verified by the Head of the Department and the principal. The grievances during the conduct of online and theory examinations shall be attended by the principal and vice-principal, forwarded to the university if required. Parents are also provided an opportunity to voice their opinions about examination grievances, related to their wards in parent-teacher meetings, duly attended not only by the faculty but also the principal.

The JNTUHCEJ students can submit their grievances through college website also.

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 college has framed Vision and Mission and SWOT analysis. For achieving vision and mission, the college has adapted Outcome Based Education (OBE) as per the guidelines laid by approving and

accreditation authorities. In line with OBE, PSOs, POs and COs are evolved. The Vision, Mission, PEOs and PSOs have been framed by the departments by collecting review of all stakeholders maintaining consistency with Institute's Vision and Mission. The POs as defined by NBA and NAAC are followed.

Course Outcomes (COs) for each course are well defined by the departments as well as by the university while designing the curriculum and the same is published in the syllabus book of each program. The Course Outcomes are discussed periodically in the classroom to create awareness among students. COs are prepared selecting an action verb using Bloom's Taxonomy significant to subject content. COs are prepared based on the curriculum and syllabus. Totally 6 Course Outcomes are prepared for each subject in the program. When it required considering multiple verbs, highest level of verb from Bloom's Taxonomy is considered.

Awareness of Outcomes to the Faculty:

Course Files:

At the beginning of the academic year all the faculty members prepare the course files and laboratory manuals. The **course file contains Department's Vision, Mission, Course Syllabus, Course Outcomes, Individual Time Table, Program Objectives, Program Outcomes, Various Mapping Matrices, Lecture Schedule, Unit Wise Material, Direct and Indirect Assessments and Student grading sheets.**

Awareness of Outcomes to the Students:

1. **Orientation Program/Workshops/Seminars** for Students and Parents: First year students and their parents are made aware of **POs and PEOs** during the induction program itself. **PO Statements** are made available in the course files and also in the course preamble. The course syllabus is uploaded in the JNTUHCEJ website. In addition, awareness is made on the roles and responsibilities of the students and parents during the course of the study (with the help of Workshops / Seminars) in order to achieve the vision of the department.
2. The course outcomes of each course are mapped to the Program Outcomes with a level of emphasis being strongly correlated (3), moderately correlated (2) and lightly correlated (1).
3. **Exit feedback on curriculum** is taken from Final year students while they leave the institution. Course Feedback is also collected from students.

Awareness of Outcomes to the other stake holders:

The Vision and mission Statements along with PEO's are *disseminated* (Internal and External Stake Holders) at:

- Department Meeting,
- Alumni meeting,
- Workshops,
- Seminars,
- Faculty development Programs,
- Parent meetings,
- Fresher's orientation,
- College Website,
- Departments notice boards.

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

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

Response:

Attainments of Course Outcomes (COs) and Program Outcomes (POs) are very important as it provide the answers for the following questions:

How much knowledge that the Teacher could be able to give to the students by teaching the Course?

The answer is the attainment of Course Outcomes.

How much knowledge student could be able to gain out of the course that he has under gone?

The answer is the attainment of Program Outcomes.

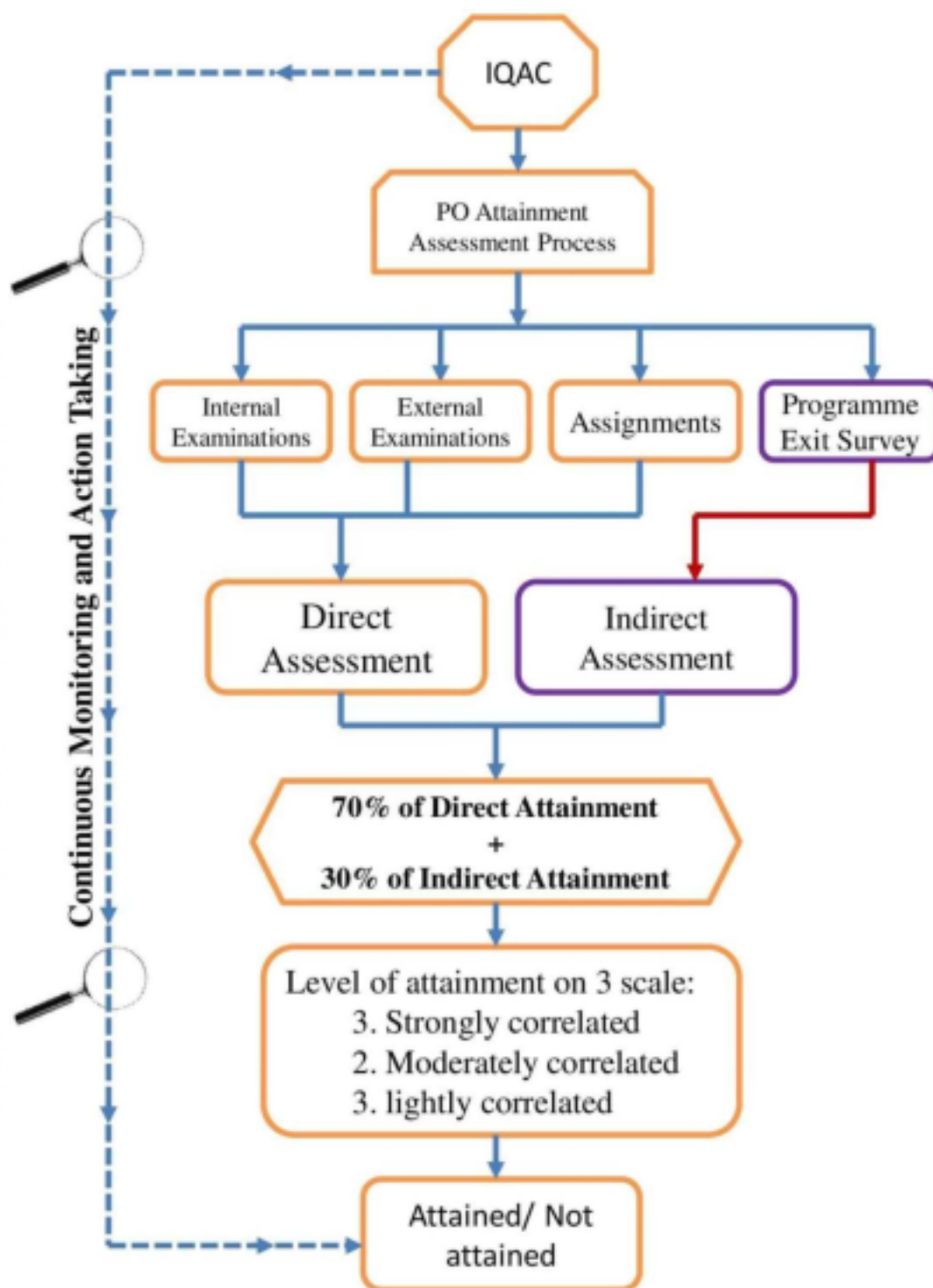
Process of Evaluating Programme outcomes:

The program outcomes, program specific outcomes and course outcomes are measured and mapped from the performance of the students' internal assessment, assignments and University examinations. Since the institution is affiliated to JNTUH, the University conducts the theory examination commonly for individual courses and publishes results in percentage systems. The PO and PSO attainment level measures are based on the average marks obtained by the students. The course outcomes attainment is evaluated after the completion of each course based on knowledge, presentation and involvement in their course by the measurement of various tools like internal assessment, assignments and University examination. After the completion of all exams, the performance of the students is considered for analysis and attainment measures. The following processes & tools are used for the attainment of course outcomes.

1. Mid Examinations: This type of performance assessment is carried out during the examination sessions which are held twice a semester. Each and every exam is focused on attaining the course outcomes.

2. Semester End Examination: Semester End Examination is a metric for assessing whether all the COs are attained or not. Examination is more focused on attainment of course outcomes and program outcomes using a descriptive exam.

3. Assignment: Each and every student is assigned with course related tasks during every course work, and assessment will be done based on their performance. Grades/Marks are assigned depending on their performance.



Tools for calculating Program Outcomes and Program Specific Outcomes:

The following tools are used for assessment of program outcomes

i) Direct assessment: The performance of the students in the examinations during the semester in each course is used to compute the level of attainment of the POs and PSOs through the mapping of questions to COs and COs to POs and PSOs. CO-PO & PSO mapping for all the courses in the program is prepared by the program coordinator.

ii) Indirect assessment: The feedback is collected through on-line survey from the students at the end of program (Program Exit Survey).

In Addition to this, student portfolios (Co-curricular, Extra Curricular, Placement, Higher studies, etc.) are considered for the final attainment of POs & PSOs.

The overall PO & PSO attainments are calculated by considering 70% of direct attainment and 30% of indirect attainment through surveys.

File Description	Document
Upload any additional information	View Document

2.6.3 Average pass percentage of Students during last five years

Response: 79.29

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

2019-20	2018-19	2017-18	2016-17	2015-16
323	288	311	297	249

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

2019-20	2018-19	2017-18	2016-17	2015-16
365	360	380	387	359

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

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.86

File Description	Document
Upload database of all currently enrolled students (Data Template)	View Document

NAAAC

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: 22.29

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)

2019-20	2018-19	2017-18	2016-17	2015-16
22.29	0	0	0	0

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: 24.18

3.1.2.1 Number of teachers recognized as research guides

Response: 22

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: 12

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

2019-20	2018-19	2017-18	2016-17	2015-16
3	0	0	0	0

3.1.3.2 Number of departments offering academic programmes

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

File Description	Document
Supporting document from Funding Agency	View Document
List of research projects and funding details	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 institution has set up an innovation ecosystem to foster a culture of innovation among the young talents in the campus. The institution keeps up the ecosystem more vibrant and conducive with state of art infrastructure and suitable scholarly human resources.

Research and Development (R&D) Center

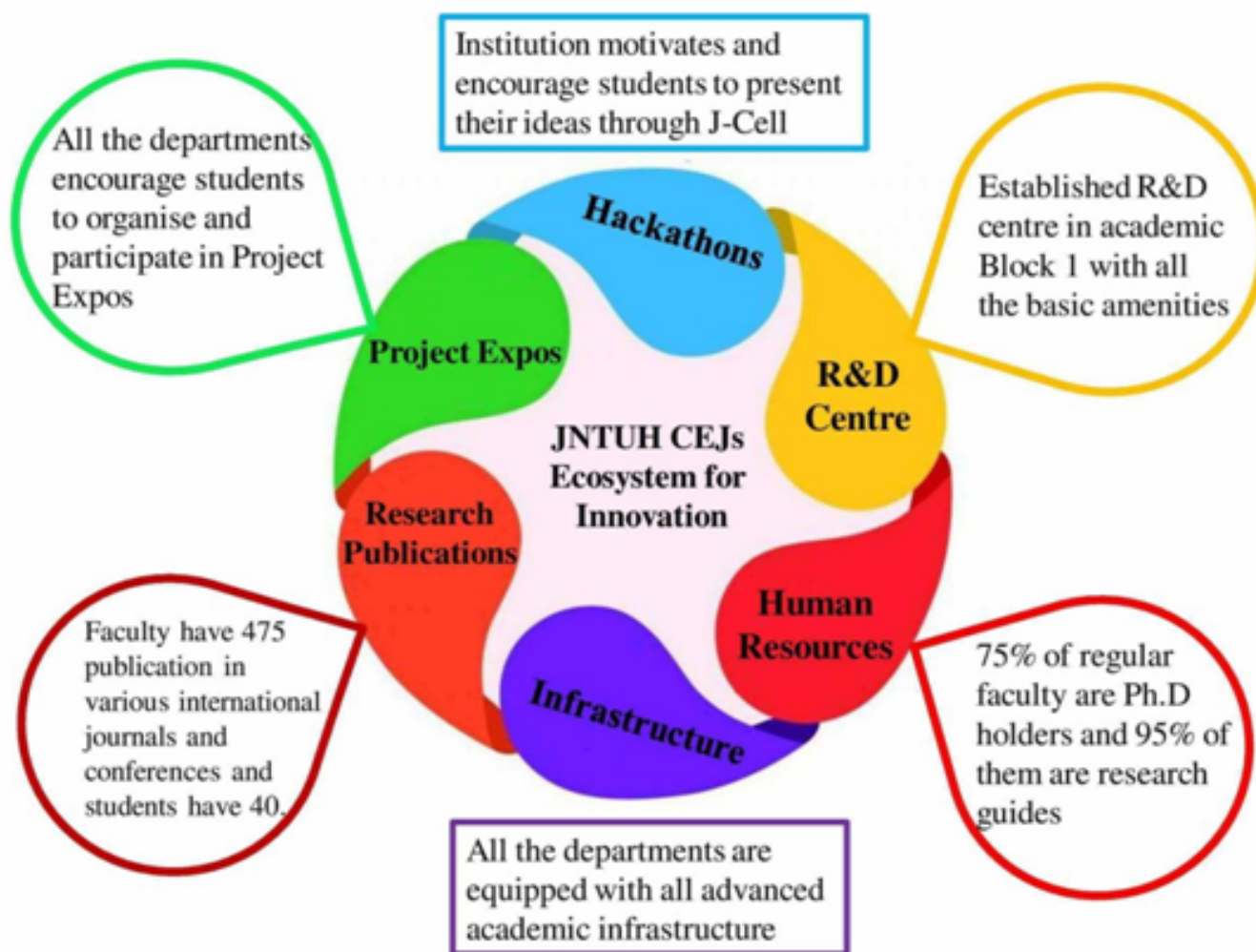
The institution has created space in Academic Block-1 to establish a R&D Centre. As the majority of students reside in hostels, the R&D Centre is quite helpful for them to work on their research ideas. A List containing the major equipment in all the laboratories is displayed. Basic equipment is provided in the centre. However, on their request and based on the recommendations of research guide, the institution takes initiative to shift the equipment if possible or student may be permitted to work in the labs after the college hours and during holidays.

Human Resources:

About 75% of regular faculty are Ph.D holders and 95% of them are recognized as research guides by the various universities including JNTUH, conducting research programmes for the scholars working under them.

Infrastructural Facilities:

To create innovative ecosystem within the campus, the departments have procured various equipment in addition to the equipment required as per the curriculum.



The details are given below:

Department	Equipment available for research innovations
ME	Computerized Universal Testing machine (UTM)
	3D-Printer
	Metallurgical inverted microscope with image analyzer system
	Drafting, Modelling, Analysis and Programming & Simulation Tools
	Air plasma welding machine
	Re-Engineering & Reverse Engineering Laboratory
	CNC Milling & Turning
EEE	Transmission Line Simulator
	Power Quality Analyzer
	DSPACE
	Four Channel Digital Storage Oscilloscope
CSE	i7 Dell Computers
	Software:
	Visual Paradigm, Star Uml, Eclipse, Libre office, LAMP, Weka,

	JDK11, DEVC++, Code Blocks
IT	ADVANCED COMPUTING LAB-II (ANDROID & IOT ALLICATIONS LAB)
PHYSICS	Muffle Furnace
	Magnetic Stirrers
CHEMISTRY	UV Cabinete
	Hot air Oven

Research Publications:

It is quite evident that the institution has established the innovative ecosystem in the campus as the faculty have as many as 475 publications of international repute in various conferences and journals during the past five Academic years. In addition, the students also have good number of publications (40).

Transfer of Knowledge-Project Expos : Every year students are encouraged to exhibit their technical skills during the project expos. Some innovative projects developed by students and exhibited during the project expos are given below:

Department	Innovative projects exhibited in the project expos during the past 5 academic years (Only few are indicated)*
IT	Uv Detector
	Smile Bounce(Game Development)
	Buzz Math (Android App Development)
	Telegram Musical Bot
	Real Time 3d Creation
	Expression Recogniser
	Security Door Mat
CSE	Obstacle detection (IOT Project)
	IOT based project for Moisture detection in soil
	Parking Lot Detection with Computer Vision
	Eye Gesture control system
	Rescue Alert System
ME	GO-KART
EEE	Prototype Model of Kaleshwaram Project (link-1)

Transfer of Knowledge- Conducting Hackathons:

The institution has created a separate innovative cell “J-Cell” under the supervision of Prof.Swetha. The J-Cell organizes Hackathons to motivate the student towards innovations and provides a plat form to present their ideas.

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: 21

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

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

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: 3.73

3.3.1.1 How many Ph.Ds registered per eligible teacher within last five years

Response: 82

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

Response: 22

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

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

Response: 3.89

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

2019-20	2018-19	2017-18	2016-17	2015-16
74	65	85	83	49

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: 1.35

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

2019-20	2018-19	2017-18	2016-17	2015-16
16	09	19	43	37

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:

Impact of organizing extension activities in the neighborhood

This section describes various activities organized by the institution in the neighborhood community.

NSS Activities:

The college administration has recognizes the social duty as one of the real needs to follow upon, which influences the students to learn great esteems and obligations required for good citizenship, service orientation and holistic development. A framework for understanding the development of professional social responsibility attitudes among engineering students has been developed, which is the main objective of college NSS Unit. The College has NSS Unit sanctioned by the JNTUH, Hyderabad. Earmarked Funds

are released by the University periodically. College maintains separate account for NSS unit. Yearly accounts are submitted to the University with Utilization certificate. A senior faculty is assigned as NSS Program Officer for the NSS Unit to implement and monitor the activities. Faculty coordinators and student members are encouraged to involve themselves in activities throughout the year in addition to NSS Volunteers.



Some of the Activities of NSS unit in JNTUHCEJ are:

1. The faculty and students are involved in *community work*.
2. The college has been generously contributing for the benefit of people suffering from *natural calamities* as well as for other noble causes.

3. The NSS Unit along with social organizations conducts *health check-up* camps for surrounding villagers and conducted health check-up, *Eye Screening*, *Dental check-up* camps for Students of the college. The Unit organized Road safety awareness programs on wearing helmet, seatbelts, drunk and drive, minor driving, following safety rules etc in association with officials of Road Transport Authorities (RTA) and Police department.

4. The NSS Unit organized community development programs in villages. Such camps help the students to understand the rural life, problems of villagers and suggest probable engineering solutions in association with the elite of surrounding villages.

5. *Blood donation* camps are conducted by the NSS Unit of the college every year in association with Hospitals, Doctors and charity organizations such as Red Cross and Lions Club.

6. The activities such as *Swacch Bharath*, effective utilization of water resources, Clean and Green, Plantation, Cashless Transactions., etc programs are conducted in surrounding villages by NSS unit.

7. The college conducts regular awareness programs on *Anti-ragging* in collaboration with local police, judicial authorities, Revenue officials and a Psychiatrist to make the campus a ragging free zone.

Voice4 Girls:

The institution has a MOU with VOICE 4 GIRLS, a non profitable organization. JNTUHCEJ students works in association with the organization in educating socially and economically disadvantaged adolescent girls. An activity-based camps conducted by VOICE, adolescent girls standing at the threshold of adulthood to receive vital information about their health, bodies, rights, life skills and build a future for themselves.

Corona isolation center:

The college administration helped the local officials by allowing hostels to use it as Isolation centers for COVID Patients.

General Elections

Principal, staff and students actively participated and helped district administration for smooth conduct of General Elections.

File Description	Document
Upload any 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: 4

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.

2019-20	2018-19	2017-18	2016-17	2015-16
01	01	01	01	00

File Description	Document
Number of awards for extension activities in last 5 year	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:** 40**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**

2019-20	2018-19	2017-18	2016-17	2015-16
10	08	07	07	08

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:** 60.77**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**

2019-20	2018-19	2017-18	2016-17	2015-16
872	855	772	855	891

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: 93

3.5.1.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
22	22	23	19	07

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: 30

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

2019-20	2018-19	2017-18	2016-17	2015-16
09	07	07	04	03

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

NAAAC

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:

Provision of adequate infrastructural facilities for Teaching and Learning has always been the top priority area of JNTUHCEJ. The campus is situated in 100 acres land in a clean and green environment.

Buildings: The institute has one administrative block and two separate academic blocks. It has four hostels and two staff quarters to provide accommodation to students and staff. About 1200 students and 30 staff families reside in campus. It has dispensary with 10 beds, SBI bank with ATM, Transportation bus, Ambulance and other vehicles. RO drinking water system, Solar fencing, Solar street lights and has all infrastructural facilities.

Male and Female MD Physicians are working for medical requirements of the students.

Class rooms are spacious, well-ventilated with natural light and adequate electrical facilities. Ergonomically designed furniture, teaching aids like **LCD** are used in TLP. Each classroom has a podium, a Desktop computer with internet connectivity for delivery of the lecture material. The spirit of classroom training encompasses the fundamentals of theoretical and conceptual learning through interactive sessions. Each classroom has sufficient number of benches for students.

The **College Library** is a gateway to a world of Information. The staff and students have unlimited access to a wealth of Information found in resources like books, magazines, journals, handbooks, annual reports and the Internet. The library offers spacious seating arrangement and a calm ambience for learning. The JNTUHCEJ Central Library provides access to its Electronic Resources along with printed material for the use of Faculty and Students at the college campus. The college has **Digital library** facility which is equipped with Delnet, J-Gate, National Digital library, IEEE access, Swayam, etc., which gives access to the Journals and e-books so that students can update their knowledge in the subject.

A **24/7 Computer Center** with 35 nos. i5 Computers with Internet access is available for the benefit of students.

The institution provides a spacious and airy **Drawing Hall** with well-designed drawing tables to the students where they can draw their designs in calm and peaceful atmosphere.

The college has **laboratories** as per the regulations of AICTE and JNTUH, with fully equipped laboratories. All the equipment are calibrated and maintained in proper condition, so that students can gain more knowledge and conduct experiments smoothly. For students' project work, additional instruments and equipment are procured so that they can do work efficiently.

Department seminar halls are provided for every department with seating capacity of 60 for learning additional software courses and latest technology developments in engineering through training programmes and guest lectures.

College has a **300 seating Auditorium** and **Open-Air auditorium** to organize co-curricular and cultural events.

About 170 **CC Cameras** are provided for safety of students.

Computers have the potential to improve productivity in education. JNTUHCEJ institution has 600+ computers for labs and installed with adequate software. The computer labs are equipped with uninterrupted power supply (UPS). Every year students and faculty register for NPTEL courses and gain more knowledge. Also, NPTEL videos are available in digital library for more references.

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:

The institution has adequate facilities to promote extra-curricular activities like cultural events, sports, games, gymnasium and Yoga.

Cultural Activities:

The Cultural Icon of Telangana Womenfolk, Bathukamma, the floral festival is celebrated every year in JNTUHCEJ with a great joy and josh by the colorful girl students in the campus. The day has been observed as festival that represents village tradition, culture & heritage of Telangana State. The National Festivals such as Independence Day, Republic Day, Ambedkar Jayanthi, Jagjeevanram Jayanthi, Voters Day, Youth festival etc., are celebrated with a great patriotic enthusiasm. Further, Pre-Christmas and Eid-ul-fitre (Ramzan), Edi-ul-zuha (Bakrid), Dasara, Diwali, Pongal are the other frolic-rollick celebrations on the campus with a great communal harmony.

The Institution celebrates Fresher's day, Induction program, Department Technical Fests, Sports day and Annual day (Sizzles) and farewell every year with delight and pride of students, who raise to the occasion by showcasing their hidden talents.

The college has an auditorium with 300 seating capacity for conduct of co-curricular and extra-curricular events. An open-air auditorium is available for conducting above various college functions. Further, the Departmental Seminar Halls are also equipped with A-V facilities and adequate seating for conducting departmental events.

Sports, Games (Indoor/outdoor)

The institution strongly believes the need to refresh, rejuvenate and boost the physical stamina of the youth. Therefore, the sports facilities are organized every year on the college campus on continuous basis. Also college will host various zonal events like Inter College Sports Fest, Sports Meet, Indoor Games

Competitions etc. The institution presented its Gems of games to the Nation by representing at National & International Level (Eg. Mr. Venkatesh-Taekwondo-2012, Ms.Prathyusha-Volley Ball-2014). JNTUHCEJ has adequate facilities for various sports and games including Cricket, Volley ball, Basket ball, Shuttle Badminton, Throw ball, Kabaddi, Table Tennis, Carroms, Chess etc., thence, portrayed a message to the visitors that, the college is diligent and dedicated in providing a friendly and healthy environment.

Gymnasium

Well equipped gymnasium is available within the campus for students as well as for faculty. The institute believes that physical activity refreshes brain that makes feel good and can boost self-esteem and helps concentration, good sleep, good look and feel good.

Yoga & Meditation

For keeping stress at bay and enable the students to tolerate the potential stress associated with life, JNTUHCEJ organizes physical exercise and yoga sessions as a mandatory course for all the students and faculty members. It helps maintaining harmony of the body and spirit that raises the attention span, memory and sharpens the focus of the students by stress reduction and emotional wellness.

Sl. No	Place	Purpose
1	Open Auditorium	Cultural Events are organized and Yoga Practice
2	JNA Auditorium	Workshops, Seminar, Functions are organized
3	Boy Hostel Gym in Godavari Hostel Block	For Physical/Mental Fitness
4	Girl Hostel Gym in Sarada Hostel Block	For Physical/Mental Fitness
5	Sports/Games	Ground and courts for Basket Ball/ Badminton/ Shuttle/ Foot Ball Volley Ball court/ Cricket

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: 96.88

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 31

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

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

Response: 26.39

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

2019-20	2018-19	2017-18	2016-17	2015-16
632.0	283.4	139.5	60.71	25.23

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

4.2 Library as a Learning Resource

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

Response:

JNTUH CEJ Library Management Software:

JNTUH CEJ Central Library is using NewGenLib software Version 3.2 library automation software currently. This software is being used since 2010. The following functional modules are included in the NewGenLib.

- Acquisition
- Technical Processing (Cataloguing)
- Circulation
- Serials Management
- Web OPAC (Online Public Access Cataloguing)
- Administration and Other Utilities such as verifications, stocks etc.

NewGenLib empowers users to use web-based technologies to improve access to information and library services. It enables librarians to better manage library resources / services using best practices, adopting global data and other standards.

The application consists of the following features including:

1. Supports multi-user and multiple security levels (standard user-id and password authentication and IP address-based authentication for library clients).
2. Affordability: Uses all open source and free components.
3. Platform independent: Runs on Windows and Linux.
4. Supports Barcode printing and ID card printing.
5. Uses Barcode Technology for issue and return of books.
6. Entry of New Books.
7. Maintenance of Journals & Magazines.
8. Android app available to access library catalogue on mobile phones/ tablets.

Modules included in NewGenLib ILMS software:

1. **Acquisition:** This module facilitates to invite quotation from vendors. If users of the library make requests for new purchase through OPAC, they reflect in the acquisition modules request menu.
2. **Technical Processing (Cataloguing):** Technical processing modules carry forward the work of acquisition module
3. **Circulation:** This module provides well-known function of circulation services such as issue, return, renew, reservation, etc.
4. **Serials Management:** It provides a complete set of functions right from adding new subscriptions to archiving through bound volumes.
5. **Web OPAC:** Users can utilize their library's OPAC to access with search engines, to offer wide information.
6. **Administration:** It is quite flexible in the parameters and makes NewGenLib very compatible for use in a public, research or academic library.

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: 5.22

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

2019-20	2018-19	2017-18	2016-17	2015-16
1.93	2.16	19.6	1.26	1.14

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: 28.16

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

Response: 405

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:***Computer Maintenance Office:***

The institution frequently reviews the IT infrastructure and procures as per the requirements by following University procedures. Software and hardware are maintained and upgraded at regular intervals. Effective utilization of infrastructure is ensured through appointment of adequate and well qualified lab technicians/system administrators. Routine maintenance of computers, peripherals, network devices, servers, CCTV, etc. is carried out by college networking staff.

1. Computers and Servers, Printers / Scanners, Copiers, and LCD Projectors:

The College is equipped with 12 Computer labs having a total of about 700 Desktop computers and five Servers with latest configuration hardware and software. The Administrative and Department offices, Exam branch and Library are equipped with a total of about 20 Printers/ Scanners and about 02 Copiers. Each classroom is equipped with Computer and LCD projector. All computer labs have UPS power backup. Generator backup is also available in the College.

2. LAN, Wi-Fi and Internet connectivity:

The computers in the laboratories and classrooms are connected in a local area network (LAN) consisting of optical fiber cable, necessary ethernet switches and routers of Cisco Make. The College is having a high-speed internet leased line (ILL) connection of about 200 Mbps bandwidth. This consists of an internet leased line (ILL) connection provided by BSNL that supports upto 150 Mbps, and an ILL connection provided by the Reliance Jio that supports upto 50 Mbps. Wi-Fi access is available across the campus and staff/students can access the network from anywhere within the campus. The quality of teaching-learning process is enhanced through the utilization of online resources by the faculty and students. The connectivity offers students with the following facilities: e-mail, net surfing, up/down loading of web-based applications, NPTEL lectures and also helps them in preparing projects and seminars.

3. Computer Software:

JNTUH CEJ encourages the use of both licensed and freely available open-source application software which are available for teaching, learning and research activities. Working with this software, helps the faculty and students to enhance their knowledge domain and enable them to apply the concepts learnt in the classroom. Some of the prominent licensed software available and used by various Departments in the institution include MATLAB, EMTP software, Cadence software, ANSYS software, Multisim Circuit simulation software. Some of the open-source software being used include Ubuntu Operating System, Visual Paradigm, Star Uml, Eclipse, Libre office, LAMP, Weka, MySQL, JDK11, and GCC Compiler.

4. Video Surveillance (CCTV):

The College campus is equipped with video surveillance cameras for the security of faculty, staff and students. A total of about 150 CC cameras with Digital Video Recorder (DVR) based and about 24 Cameras with Network Video Recorder (NVR) are installed in the campus at various locations.

5. Aadhaar Enabled Biometric Attendance System:

At the College main gate, two Biometric based devices are installed for checking the entry and exit of the resident hostel students. The academic and administrative blocks houses a total of six aadhaar enabled biometric attendance devices for registering the attendance of Faculty and Staff.

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. 750 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: 29.44

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)

2019-20	2018-19	2017-18	2016-17	2015-16
0236.51	0178.8	0188.94	0159.54	0143.60

File Description	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:

Thanks to Faculty on additional charges. With the cooperation of them, JNTUHCEJ has a well established systems and procedure to look after the maintenance at various domains.

1. Routine Maintenance- House Keeping Contractor:

- The university provides House Keeping Contractor through tender process.
- Under the supervision of Executive Engineer (EE) - Engineering Department, the House keeping contractor deploys Labor for material upkeep. Institution has full time employees like plumbers, sweepers, gardeners, carpenters, painters, etc.

The Engineering Department attends the maintenance of the following maintenance works.

1. Painting
2. Water Supply
3. Lawn area water supply
4. Plumbing works
5. Uninterrupted water supply
6. Water heater and Cooler maintenance

The following special initiatives were taken by the Engineering Department to improve the physical ambience of the campus:

- New Lawn areas developed near Library, Hostels and Departments.
- Green Lawns of an area of 5 acres is being maintained.
- Trees were planted all over the campus.
- RO water plant installed.

2. Preventive Maintenance:

Electrical Maintenance- Electrical Maintenance Officer (EMO):

The institution has four full time electricians and one AC Technician working under the supervision of EMO. One Faculty from EEE department is appointed as **Electrical Maintenance Officer (EMO)**. He looks after preventive maintenance of all ACs and other electrical works. . Electricians are available round the clock to attend power breakdown. They perform regular checks in classrooms, laboratories and on

campus to ensure that all the electrical fittings are in good condition. Maintenance department monitors the services of electricians.

The EMO team attends the following maintenance works:

1. Maintenance of all the electrical operated Lab equipment
2. UPS Maintenance
3. Minor electrical repairs
4. Uninterrupted power supply
5. Solar Light Maintenance
6. Water heater maintenance
7. Water cooler maintenance

The following special initiatives were taken by the EMO to improve the physical ambience of the campus:

- 24 Solar Light Systems erected along the campus roads.
- Sodium vapor lamps were replaced by LED Lamps.

ICT Facilities- Computer Maintenance Officer (CMO)

The Institution has two full time Hardware Technicians and two Networking Technicians working under CMO. One faculty from CSE/IT Department is appointed as Computer Maintenance Officer (CMO).

The CMO team attends the following maintenance works:

1. Software and Hardware
2. Networking.
3. Internet.
4. Website Maintenance.
5. CCTV cameras installation and maintenance.

Vehicle Maintenance Officer-VMO

The institution has one full time vehicle technician working under the supervision of VMO. One Faculty from ME department is appointed as Vehicle Maintenance Officer (VMO).

Furniture Maintenance Officer-FMO:

The institution has appointed Furniture Maintenance Officer (FMO) to look after furniture requirements and repairs.

Class Rooms/ Laboratory Maintenance: EMO/CMO usually attends the maintenance.

Library Maintenance: MLIC Qualified Asst. Librarians maintains the library.

Sports Complex: Qualified Physical Director look after the sports requirements and maintenance

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: 62.38

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

2019-20	2018-19	2017-18	2016-17	2015-16
946	862	877	856	817

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: 0

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

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

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: 58.85

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

2019-20	2018-19	2017-18	2016-17	2015-16
1144	350	1653	449	510

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: 39.58

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

2019-20	2018-19	2017-18	2016-17	2015-16
124	140	183	124	161

File Description	Document
Upload any additional information	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: 44.38

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

Response: 162

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: 63.01

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

2019-20	2018-19	2017-18	2016-17	2015-16
46	46	30	40	20

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

2019-20	2018-19	2017-18	2016-17	2015-16
60	55	53	67	52

File Description	Document
Upload supporting data for the same	View 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: 45

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.

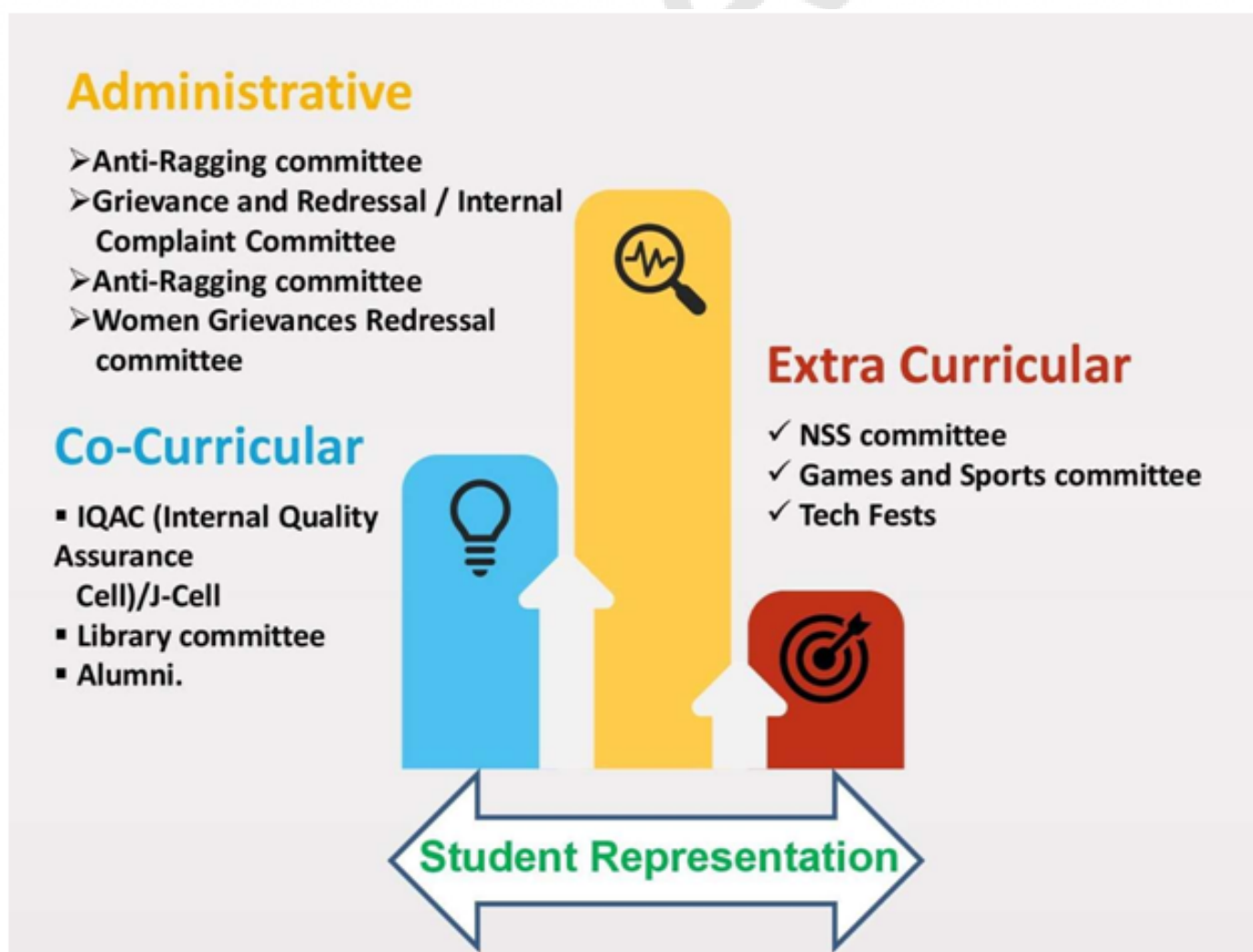
2019-20	2018-19	2017-18	2016-17	2015-16
3	12	11	11	8

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
Any additional information	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 institution believes the participation of students in various committees not only inculcate the leadership and decision making qualities in them, but also governance get proper inputs for developing the institution.



Grievance and Redressal Committee/ College Internal Complaint Committee

In recent times as per the directions of AICTE, institution has introduced Grievance Redressal Portal in its website. This committee is vested with the authority to address grievances raised by students/Teachers/Non-Teaching staff in the college.

Anti-Ragging committee

As per the guidelines of the AICTE and parent University, this committee is constituted. Sincere, well behaved, disciplined and meritorious students are the additional members of the committee apart from all faculty members. This committee looks into the matters of any ragging issues within and around the college premises. Students in this committee are very vigilant in safeguarding their juniors during leisure hours; they voluntarily roam within the campus and monitor their juniors to create a friendly environment in the campus. Stringent action will be initiated against the rules violators.

Women Grievances Redressal committee

This committee organizes activities particularly on issues pertaining to 'gender sensitization', violence against women and legal provisions under the sexual harassment of women at workplace. The active participation of students in this Committee is clearly evident in different events conducted by the college.

IQAC (Internal Quality Assurance Cell)/J-Cell

In this committee, student members actively involved through brain storming sessions to achieve desired outcomes. Their new thoughts and ideas were reviewed, modified and implemented to get the desired outcomes.

Library committee

In this committee, student members involve playing a vital role in recommending the books and journals that they feel are highly essential and beneficial for their academics and career.

Hostel committee

The Hostel functions under the administrative control of the warden. Student members in this committee is to help ensuring the hostel facilities and the quality of food, cleanliness, health and hygiene. Periodical meetings are conducted with student representatives to redress their grievances.

Games and Sports committee (GSC)

Students from all branches are actively involved in this committee as members. Student members are responsible for all Intra and Inter collegiate sports related events in the college.

NSS committee

This committee has a trained officer and more than hundred student volunteers, who are taking up different service oriented activities in and around the campus.

Alumni Cell

JNTUHCEJ Alumni Association is formed with a view to create a platform that helps to improve student interaction and relation after completion of their course at JNTUHCEJ. It is a forum for valuable discussions that plays vital role in academic exploration by way of queries by juniors for guidance and advice by alumni from their proven successful career. It is all about enterprise, inspiration and mentoring by Notable Alumni.

Other Committees:

Apart from these, the institution encourages students participation in many committees such as: Orientation/Induction, Tech Fests, Sizzles (Annual Day), Canteen Committee, Student Activity center (SAC) etc.

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: 7.4

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

2019-20	2018-19	2017-18	2016-17	2015-16
13	03	07	08	06

File Description	Document
Upload any additional information	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

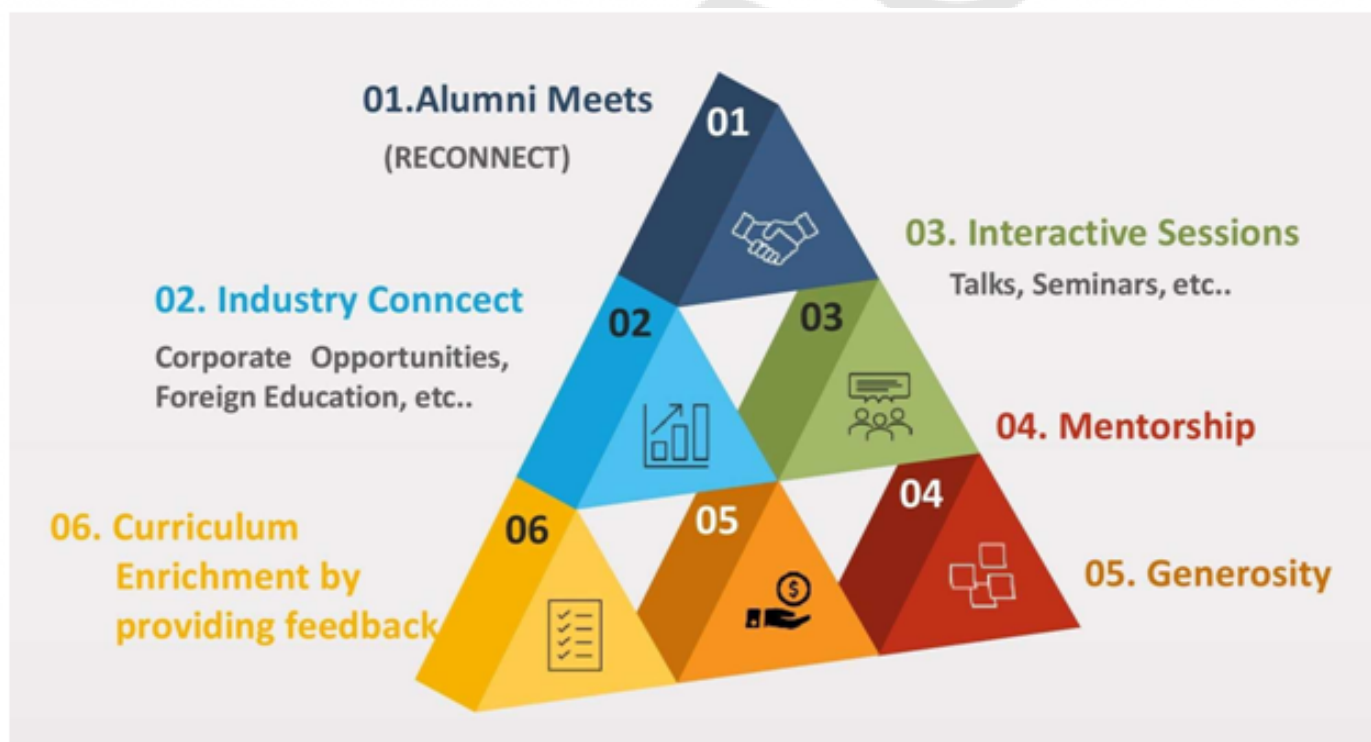
5.4 Alumni Engagement

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:

JNTUHCEJ has its registered alumni association aims to link the alumni to the institution, in particular to the pursue students for guidance. JNTUHCEJ feels proud of its Alumni association which extends its direct and indirect help to the administration and to the students through various means; they foster a spirit of loyalty and the general welfare of our college. JNTUH College of Engineering Alumni Association (JNTUHCEJAA) is instrumental in developing synergetic plans to support the institution and achieve its VISION, and to enable the institute to add value to all its stakeholders. The main objective of JNTUHCEJAA is to enroll all the alumni as members of the association and facilitating active participation of the alumnae in appropriate activities, events, and initiatives of the institute. The JNTUHCEJAA helps in building a network of the alumni and helps in being in touch with the corporate world. Alumni meetings “**RECONNECT**” are conducted every year, where they discuss the current scenario and thereby help their juniors in catering their needs towards the industry.

Keeping in view the busy schedule of the alumni in mind JNTUHCEJAA has changed its strategy regarding interaction with the alumni. The Alumni coordinator gets the information of the availability and will be invited to interact with the students during the RECONNECT. This has become the continuous practice of the institution. This concept is helping a lot to the students and fetching good results.



The following are the activities carried out with the help of Alumni:

Alumni as AMCS:

Since most of the students of JNTUHCEJ are from semi rural and rural background, it is imperative for the institution to guide the students from the beginning itself for their all round development. This is inevitable as the students are not matured enough to face ever changing technological scenarios. Through the **Alumni Member for Counseling Services (AMCS)** System, students are advised in academic and non academic matters and also in personal domain. This helps them to achieve their goals in life. This scheme aims at addressing the deficiencies in attitude, habits and knowledge of the students.

Curriculum Enrichment:

Alumni are involved in providing their valuable feedback pertaining to OBE Process, POs attainment and curriculum.

Interactive Sessions:

The JNTUHCEJAA helps in holding interactive sessions to motivate current students about employability and educational opportunities abroad. They share their opinions in social networks, blogs and forums.

Industry Connect:

The JNTUHCEJAA is educating current students regarding employment opportunities in Industry and educate the Industry needs.

Counseling:

JNTUHCEJAA is playing an important role in voluntary programs like career counseling students in their areas of expertise.

Generosity:

Few of the Alumni of various departments have donated text books for the department library to keep available for the needs of poor students.

The alumni connectivity contributes significantly to the development of the institution through their involvement.

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:

NATURE OF GOVERNANCE IS REFLECTIVE:

The institution governance strictly adheres and functions as per the rules and regulations laid down by the regulatory bodies. The ***participation of Teachers*** at different administrative tasks and actions is quite effective as expressive from that the Head of Institution with a great level of satisfaction that this decentralized Governance is easing out the responsibilities. Staff involves and shares the responsibilities for the smooth functioning of college.

FUNCTIONING OF THE GOVERNANCE IN TUNE WITH THE VISION AND MISSION OF THE INSTITUTION

Vision:



“The aspiration is to emerge as a premier institution in technical education to produce competent engineers capable of making valuable contributions in Engineering and Technology”

Mission:

The aspirations are fulfilled and continue to fulfill:

M1: With the support of diligent, assiduous, industrious, and highly qualified faculty.

M2: With state-of-art facilities for knowledge enrichment of students.

M3: Guiding and training students in conjunction with needs of industry.**Efforts to fulfil the Vision Statement*****Institution has produced Competent Engineers::***

The alumni of the institution have been positioned well in their professional Life. Since 2007 the year of establishment till 2020, the alumni are positioned well in India and abroad. Many of them have pursued higher studies, became entrepreneurs, and secured Government jobs. The details can be had from the college website.

Efforts to fulfil the Mission Statements***M1: With the support of diligent, assiduous, industrious, and highly qualified faculty***

The faculty of the institution are highly qualified. It is evident from that the majority of faculty are Ph.D degree holders and presented number of research publications. The faculty are well acquainted with implementation of Outcome based Education in the institution.

M2: With state-of-art facilities for knowledge enrichment of students.

The vision and mission statements were drafted in the year 2015. Since then the institution is trying to equip the laboratories with state-of-art facilities. Some of the salient points in this context are as follows:

1. Equipping computer labs in place of Core-2 Duo computers.
2. Procurement of software for core engineering departments like ANSYS, 3D-printers for ME department, EMTP, MATLAB software and Transmission Line simulator for EEE department and CADENCE software for ECE department and many.

M3: Guiding and training students in conjunction with needs of industry.

Since 2015, the institution has entered MOUs with number of industries to train them in conjunction with needs of industry.

PERSPECTIVE PLAN OF THE INSTITUTION:

The strategic plan for the college is prepared in line with the Vision and Mission Components, as mentioned below:

- *The institution to be recognized as one of the premier institutions in Telangana State on par with our sister concerned JNTUH College of Engineering, Hyderabad.*
- *Develop, strengthen, and implement academic programs that are responsive to the JNTUHCEJ mission and are systematically reviewed for sustained quality, relevance, and excellence to meet the challenges of a highly competitive and global workforce.*
- *Overcoming location disadvantage by promoting a campus environment that supports a high quality of life and learning.*

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

The delegation of financial powers is prescribed by the university which is mandatorily had to be followed by Institution governance. However, the institutional ***decentralization and participative management*** is commendable in respect of achieving outcomes.

Vision and Mission statements define well the qualitative policies of the institute, which are designed by everyone in the institution that includes Principal, Vice-Principal, HODs and senior faculty. An action plan is prepared to decentralize governance for implementing quality of policy. The roles to play by different sections of Governance are described below:

Role of parent university JNTUH Administration is to provide:

- Budget.
- Infrastructure.
- Regular Staff.

Role of Principal:

The Principal provides leadership for the academic administration and creates an effective environment and conducive for learning. Principal ensures the quality education is imparted to the students that foster the around development of diversified category of students. Principal of JNTUHCEJ ensures methodical, motivating and all-round development of the institute. Principal has to win the hearts of the students as a “Good Teacher” that eases him to become a “Good Administrator” with his administrative skills. The principal has role to play in these aspects:

- Quality Policy- Planning, Deployment and Monitoring.
- Administration of Teaching and Learning.
- Resource Management.
- Recruitment of Full Time Faculty.
- Following IQAC suggestions for improvements.
- Maintaining Discipline.
- Providing Security to students.
- Resolving Grievances.
- Maintenance.
- Office Administration.
- Attending university meetings and arranging college meetings.
- MOUs
- All the works assigned by University Top Management.

Role of Vice-Principal:

Assist Principal in:

- Classwork
- Examinations.
- All the works assigned by Principal.

Role of Head of the Department:

- Execution of Principal Instructions at Department level.
- Monitoring Class Work, Feedback Collection and action plans.
- Organizing Meetings.
- Workload Distribution.
- Planning the Infrastructure requirements.
- Mentoring.
- All the works assigned by Principal.

Role of Deputy Registrar/ Assistant Registrars:

- Assisting Principal in administration.
- Office Management.
- Human Resource Deployment.
- Budget Preparation.

Role of Executive Engineer:

- Maintenance of Buildings
- Infrastructural augmentation.

Participative Management:

In addition to above, the faculty helps in various activities.

- 1.EMO: Electrical Maintenance officer.. Looks after Electrical Works.
- 2.CMO: Computer Maintenance Officer.. Looks after Computers and Internet.
- 3.VMO: Vehicle Maintenance Officer..Looks after Vehicle maintenance.
- 4.FMO:Furniture Maintenance Officer..Looks after Furniture Maintenance
- 5.HM: Hostel Manager
- 6.DW: Deputy Wardens for Hostels.
- 7.Medical Officers—Health Centre.
- 8.OIEs: Officer In charge Examinations--- Conducting Examinations.
- 9.TPO: Training and Placement Officer.
- 10.IQAC Coordinator.
- 11.Alumni Coordinator.

Committees for welfare of students:

- 1.Disciplinary.
- 2.Anti Ragging.
- 3.Sports & Cultural.
- 4.Canteen.
- 5.R&D committee.
- 6.Women empowerment.
- 7.Internal complaint.
- 8.Minority Grievance.
- 9.SC &ST Cell.
- 10.NSS.
- 11.Transport.

The institute has made remarkable progress in the last 6 years with the cooperation of all the above, as that evident, three UG programs have achieved NBA accreditation in the year 2019.

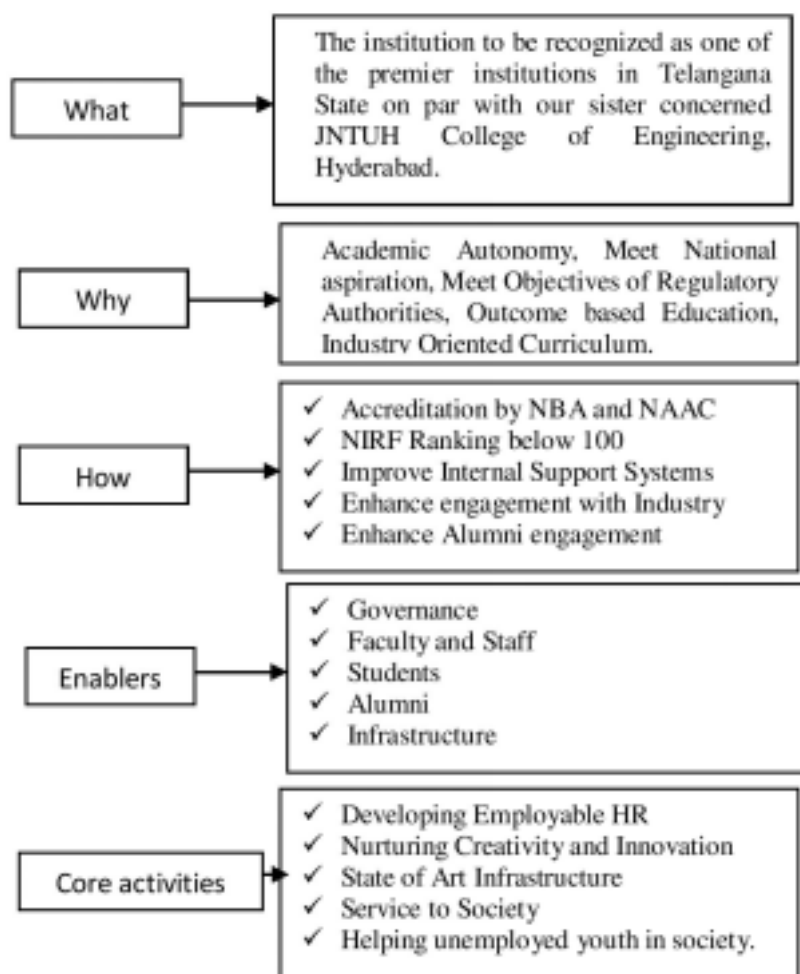
6.2 Strategy Development and Deployment

6.2.1 The institutional Strategic / Perspective plan is effectively deployed

Response:

The Strategic Plan seeks to leverage the strengths that JNTUHCEJ has developed over the decade and build upon them. In particular, the strategic plan proposes to nurture the large groups of faculty working on transformational technologies that have the potential to address the social challenges faced in the country.

The perspective/strategic plan ensures that the vision, mission and objectives of the college to achieve by the process of plan, review, evaluation, reporting and re-planning. JNTUHCEJ strives to foster an excellent environment to achieve academic development.

JNTUH CEJ Strategic Plan 2016–2021

Strategic Plan identifies the following broad targets:

Sl. No	Strategic Plan	Sub Plans	Status
1	Enhance engagement with society	NSS, other Social activities and contributions	Deployed
2	Diverse Student learning environment	ICT based TL, Value added, Skill development center.	Deployed
3	Improve internal support systems	ERP, LMS, effective implementation	Deployed
4	Enhance alumni engagement	Registered alumni association, Alumni meetings, alumni involvement	Partially Deployed
5	Develop a cleaner and greener environment	Solar, LED, Waste Management, Green landscaping	Deployed
6	Academic Autonomy	Regular Faculty recruitment	Partially Deployed
7	Industry-Institute Interaction	MOUs with industry	Partially Deployed

The team consisting of Hon. Vice-Chancellor, Registrar and Directors of the university, Principal, Heads of the departments and senior faculties are the prime body that develops drives and deploys the policy.

To facilitate better planning and implementation, an IQAC is formulated. While it is presented in the IQAC, the constructive suggestions will be taken in a positive spirit. The conclusions arrived at IQAC in its meetings after careful review; the policies are redesigned, and the procedures, plans and processes are reformulated to embed into the system for corrective actions or modifications wherever required. Further, for the development of the institution in respect of quality enhancement, value addition and sustainability, the conceptual ideas obtained from the stakeholders are analyzed and synthesized and formulated, which in turn tailored to requirements. These are finally integrated with the strategies in line for achieving the vision and mission of the institution. A few, examples to quote here, are (i) introduction of add-on courses, (ii) encouragement to bright students, (iii) remedial classes for weak students (iv) sanitary napkin vending machines incinerators at toilets for health & hygiene (v) strengthening Security systems and so forth.

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:

JNTUHCEJ governance believes in better functioning of the institution, it needs to have policies. Policy needs a process. Process needs a procedure.

The IQAC approved JNTUHCEJ Quality Statement is:

“The institution is committed to Quality as the guiding Principle in its *decision making* and *leadership* in providing *higher education* and to realize this, the *governance* of the institution with the help of university will regularly monitor the *quality of Teaching-Learning* and review the performance of its institution to *produce competent engineers* and by providing continuous augmentation of *State-of-Art infrastructural facilities* in implementing an effective Quality Management System based on ISO-9001 standards and the *Industrial needs*.

Quality Issues:

Based on its Quality and Mission Statements, the institution mainly focuses on three Quality issues.

Q1: Decentralized Governance for the effective decision making and efficient leadership for the implementation of the *best* practices.

Q2: *Quality* in Teaching-Learning Processes in producing Competent Engineers.

Q3: *Excellence* in providing State-of-Art infrastructural facilities for enrichment of Student knowledge and opportunities.

Processes and Procedures for implementation of Quality Issues:

The processes and procedures adopted in implementing the quality issues are as below:

Sl. No	Description	Institutional Body/ Administrative Setup	Policy	Process	Procedure
1	of Regular Faculty & Service Rules	As per University Rules		As stipulated by the State Government	
2	Recruitment of Full Time Contract Faculty	Institution committee comprising of Principal, Subject Expert/BOS, HOD	Guidelines given by University	Written Test and Demo Performance is considered	Vacancies notified in the News Papers-Based on Merit List Candidates are selected.
3	Renewal of Contract Faculty Services	Institution committee comprising of Principal, Subject Expert/BOS, HOD	Guidelines given by University	Based on Demo Interview for 20 Marks and SAR for 80 Marks	The candidate has to secure minimum of 50 Marks to get extension of contract
4	Institutional Policy-making	IQAC	To review quality in all the academic matters	Stakeholders Feedback, Result Analysis, Attainment of outcome, Placements, Training etc.	By organizing IQAC meetings twice in a year and as and when required when the policy needs to be taken
5	Purchases above Rs.1 Lakh	University Committee for Prospective Planning (UCPP)	The procurement policy is to finalize in a meeting comprising of top officials of the University	Organizes UCPP meetings in head quarters and approves the proposals before sending for Executive council (EC) approval	The institution submits proposals to university with justification & specifications. University calls the bidders.
6	Purchases below Rs.1 Lakh	Non-Statutory purchase committee constituted by Principal	The procurement policy is to finalize in a meeting comprising of HODs and	Organizes purchase committee meetings in approves the proposals	The principal places purchase orders on quotation basis.

7	Outsourcing /Housekeeping/Security	University Committee Directorate of BICARD	senior Faculty The policy is to finalize in a meeting comprising of top officials of the University	Call for global tenders.	University finalizes the contractor.
8	Grievances (General/Women/Minority/SC&ST/Facilities)	Institutional committees	To help students, parents, staff to record their complaints.	Online or offline mechanism exists to record the grievances.	Grievances committee shall resolve the issues.

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
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:

Employees are undeniably crucial stakeholders, who influence organizational effectiveness by stabilizing the tremor caused by adaptive environment. The Governance of University and JNTUHCEJ implemented various monetary and non-monetary welfare measures for both Teaching and Non-Teaching employees.

MONETARY WELFARE SCHEMES

For the employees recruited before Sep'2004:

- 1.Pensioner Benefits.
- 2.GSLIC Contribution scheme.
- 3.General Provident Fund Facility

4. Medical Reimbursement Yearly Rs.3500/- per annum
5. Medical Reimbursement for surgery, Hospital Charges up to Rs.2.0 Lakhs
6. UGC unassigned grants for paper presentation in India Rs.10,000/-
7. UGC unassigned grants for paper presentation in Abroad Registration Fee+ Travel Grant + DA (As per UGC norms).
8. EL encashment for 15 days per year for Non-Teaching staff.
9. Short Term and Long Term advances

Short Term for Non-Teaching Staff only: Festival Advance, Educational School Fee Reimbursement.

Long Term: House Building (Purchase, Construction, Repairs), Purchase of Land, Motor Car, Motor Cycle, Computer, Marriage Advance for Children.

1. Providing and sanctioning regular increments and implementation of RPS.
2. Dearness Allowances.

For the employees recruited after Sep'2004:

1. LIC Contributory Pension Scheme
2. UGC unassigned grants for paper presentation in India Rs.10,000/-
3. UGC unassigned grants for paper presentation in Abroad Registration Fee+ Travel Grant + DA (As per UGC norms).
4. Long Term Advances: House Building (Purchase, Construction, Repairs), Purchase of Land, Motor Car, Motor Cycle, Computer, Marriage Advance for Children.
5. Providing and sanctioning regular increments and implementation of RPS.
6. Dearness Allowances.

Outsourcing Staff:

ESI /EPF Contributions.

NON- MONETARY WELFARE SCHEMES

The JNTUHCEJ supports the faculty members to pursue their **Ph.D.** The faculty members are considered as on duty and provide expenses to attend conferences, seminars, workshops, orientation program, Courses and faculty development programmes. They are also encouraged to publish their research work on reputed national and international journals by providing financial assistance. The employees of the Institution are also benefited from the following non-monetary welfare measures.

Leaves:

1. Study Leave for 6 Months in service.
2. Maternity leave with half pay for two months.
3. Paternity Leave for 15 Days.
4. Child Care Leave for women employees: 6 Months in service.
5. Medical Leave: 20 Days per annum.
6. Summer vacation for 2 Months and Winter Vacation for One Month.
7. Casual+ Special Casual leave – 22 days per annum

8. Optional Holidays : 5 days per annum
9. Academic Leave: 12 Days per annum
10. Attending RC/OC/FDPs; On duty Leave.

Other Welfare Measures:

1. Free Wi-Fi
2. Personal Computer for each faculty
3. Purified Drinking Water.
4. Free Male and Female Doctor consultation
5. Three and Two Bed Room Quarter Accommodation.
6. Permissions to attend Conferences/Workshops/RC/OC/FDPs.
7. Permissions to organize Conferences/Workshops/RC/OC/FDPs.

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: 0

6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years

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

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: 2.2

6.3.3.1 Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
06	02	01	02	00

File Description	Document
Reports of Academic Staff College or similar centers	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: 31.1

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

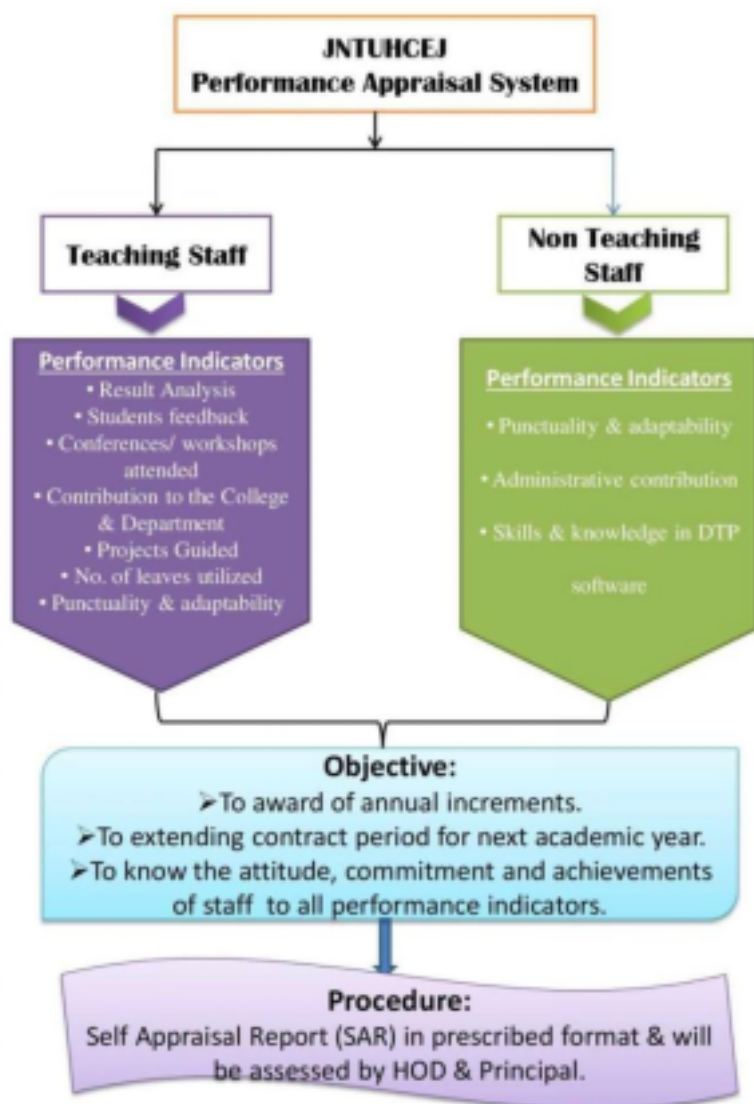
2019-20	2018-19	2017-18	2016-17	2015-16
60	25	21	16	20

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:

JNTUHCEJ has the performance appraisal system in three-fold, the first is based on the students' online feedback and the average rating given. The second one is based on the results of examinations in the subjects taught by the respective staff member and average pass rate. However, these two are referred to IQAC and in turn are taken into consideration to advise the staff members to improve in the areas where they are lagging behind.



Finally, the third step is to assess the progress potential of staff members. In this stage, the self-appraisal form is filled in by the staff member concerned for the appraisal. This is assessed by HOD, Vice Principal / IQAC-C and Principal based on the below-given Performance Indicators:

Teaching Staff Performance Indicators:

The Teaching staff are appraised based on the following Performance Indicators:

S. No.	Performance Indicator (PI)
1	Result Analysis
2	Student's Feedback
3	Conferences / Workshops attended
4	Number of publications/papers
5	Contribution to the college
6	Contribution to the department
7	Project Guided etc.
8	Number of leaves Utilized
9	Punctuality & Adaptability

Non- Teaching Staff Performance Indicators:

In case of Non-Teaching staff, the appraisal is based on the following Performance Indicators:

- Punctuality and adaptability
- Administrative Contributions
- Skills and knowledge in DTP Software

Why to evaluate Performance Indicators

The attitude, commitment and achievements of staff regard to above performance indicators are the key areas to their appraisal. The institution is keen in finding, its potential resources, its strengths to sustain, weaknesses to rectify, opportunities to explore and challenges to face. Thence, the Performance Appraisal System can help identifying the SWOC and frame its action plans in the process of continuous improvement.

Objective of evaluating Performance Indicators

These are the parameters that are helping the JNTUHCEJ administration to evaluate the teaching and Non-Teaching staff performance for the award of annual increments.

In case of full time faculty for award of extending contract period for next AY.

The outcome of the review of the SAR is also communicated to the staff through oral communication and by the way of granting of the increments.

Procedure

At the end of every academic year, every staff is asked to submit the Self Appraisal Report (SAR) by duly filling the prescribed form to the Principal along with supporting documents if any. The performance report of every staff is assessed by HOD, IQAC-C and Principal.

After assessment, the overall outcome of each staff member is informed to the individual and concerned. The excelling individuals are appreciated. Further, those who are performing poor are counseled for improvement. The actions taken will be presented by IQAC-C in the immediate next IQAC meeting for the note of the members and for receiving constructive suggestions for continuous improvement.

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

This section describes the Internal/External Audits conducted in JNTUHCEJ

INTERNAL AND EXTERNAL AUDIT

Objectives of the Financial Audits: Financial Planning and resource management is the foresights of the institution in strategize its growth and development.

Pre and Post Financial Audits: The income and expenditures of the institution every year is audited by two parties: Internal Audit and the External Audit.

The internal audit is *pre-audit* conducted by the Finance Officer of the JNTUH and his team. Also, the disbursing officer i.e. the Principal also involves in the internal audit party as his prime job is to mobilize the resources in proper and effective way.

The External Audit is *post-audit* conducted by both the state and central government audit agencies. Telangana Government's State Audit Party and Accountant General (AG Audit) comes under External Audit Parties..

Periodicity of Audits: At the end of every financial year, pre or internal audit is conducted. Once this is over, the external or post audit is conducted.

Outcome of the Internal Audit: The outcome of internal audit is, the audit reviews the collection of receipts and monitor the expenditure as per Budget Estimates. As a result of this, no excess or any kind of irregularities can occur.

Outcome of the External Audit: The external audit reviews the physical target achieved by the University. It is the system of verification after the payments have been made. As a result of this, excess or an kind of irregularities occurred can be brought to the notice of officials.

ACCOUNTING PROCEDURE

Voucher: Before making a payment, the office prepares voucher by furnishing all the details of expenditure and bank cheque details. A voucher consists of sub-vouchers such as: Proceedings for payment, Original Bill, Comparative statement and Quotations.

Bank Accounts: The institution maintains different number of accounts in the Bank based on its necessity.

Cash Book: Each account is maintained with a cash book. The receipts (Income) and Expenditure details are entered in cash book daily wise for a month and monthly wise of a particular financial year.

AUDIT PROCEDURE

1. Each voucher is verified for its correctness by way of verifying the sub-vouchers.
2. Receipt (Income)/ Expenditure entries are verified in all the cash books.
3. Cash book entries are reconciled with the Bank statements (both Receipts and Expenditures).
4. Finally, the audit party prepares Receipt-Expenditure statement and submits to the Principal. A copy of the statement is also submitted to The Registrar of the University for his Perusal.
5. **Audit Objections:** After the verification of all the accounts, the audit party raises the objections if any. The Principal is responsible to give proper clarifications for all those objections and to see that

they have been dropped.

Dissemination of Audit Reports: At the completion of every financial year, the accounts are well audited by the Audit Officers. Sample of audit statements are presented below. The same is disseminated to public domain through college website.

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)

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

The JNTUHCEJ budget is prepared by the Principal every year taking in to consideration of both recurring and Non-Recurring expenditures. The IQAC suggestions that involve finance requirements are duly considered and put forward to academic heads. Accordingly, all the academic heads and various coordinators of different cells (R&D Cell, Exam Branch, T&P, NSS, Sports etc.) are requested to submit the budget required for the subsequent financial year before the budget is presented before the financial committee of the University for Approval.

JNTUH consolidates all the budget estimates of its constituent colleges and units and submits to Telangana state Government for sanction.

The Major Receipts (Income Sources) of the Institution:

JNTUHCEJ is receiving adequate budget amount from the parent University JNTUH. It sanctions the budget for meeting both the recurring and non-recurring expenditures. The major financial resource for the institution is by the state Government through University. The extract of the Budget for the FY 2018-19 is shown below:

Financial Year	Budget allocated in Rs.	Expenditure in Rs.	Remarks about Budget allocated
2015-16 (CFYm4)	20,06,87,000/-	15,82,44,221/-	ADEQUATE
2016-17 (CFYm3)	21,88,12,000/-	18,71,55,630/-	ADEQUATE
2017-18 (CFYm2)	35,09,04,000/-	21,30,94,446/-	ADEQUATE
2018-19 (CFYm1)	28,36,30,000/-	22,21,70,277/-	ADEQUATE
2019-20 (CFY)	35,32,96,000/-	29,49,71,798/-	ADEQUATE

The Major Expenditures of the Institution:

- Salary and wages payments
- Laboratory infrastructure and maintaining building infrastructure
- Purchasing of Library books, subscription of journals and rare books in the library
- Construction of new buildings
- Establishment of new labs.
- Organizing events in the college such as Industrial visits, workshops, hands on training, national level events such as Tech-Fests, sports day etc.
- Up gradation of laboratories.

Strategies for Optimal utilization of funds:

Apart from meeting the recurring expenditures the funds will be used:

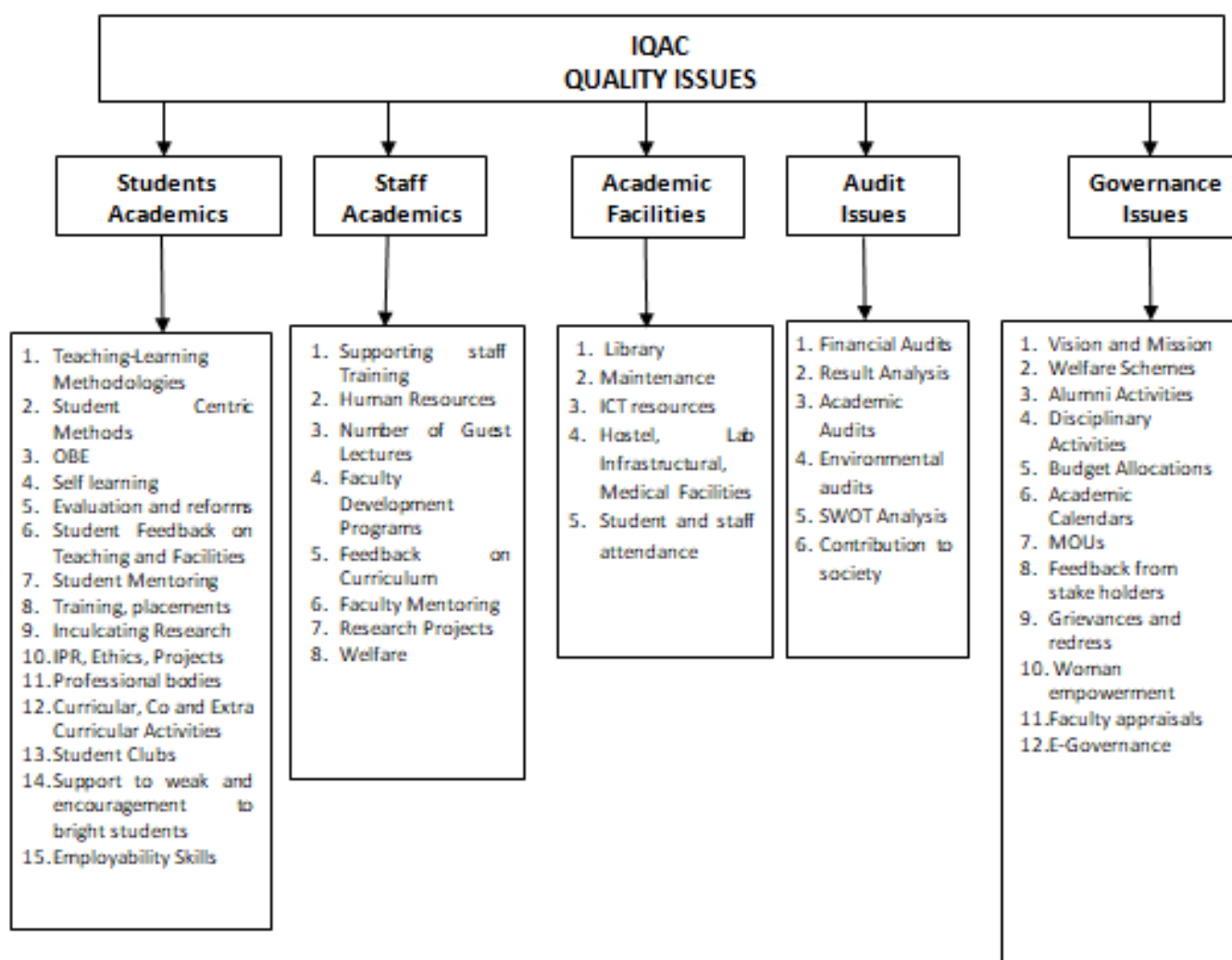
- For effective teaching-learning practices that include conduction of orientation programs, workshops, inter-disciplinary activities, training programs that ensure quality education.
- For development and maintenance of infrastructure.
- For social service activities as a part of social responsibility.
- For Purchase of educational technology aids.
- For Green Campus and amnesties.
- For in-house security measures.
- For In-house maintenance of equipment to maximum possible.
- For R&D activities.
- For conducting college functions, alumni and parent-teacher meetings.
- For meeting various expenditures under different heads such as: R&D,T&P, Software, Computers, ICT, Library Books/Journals/e-subscriptions, Equipment 7 Consumables, Furniture & Fixtures, NSS, Examinations, Industrial Tours etc.

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:

The Quality issues taken up by IQAC can be unfolded in to major 5 heads as indicated in the figure below:



IQAC has taken many initiatives for the development of JNTUHCEJ. Among them the best two practices that have been institutionalized are:

1. Establishment of Coding Lab:

As a part of modernizing the computer Labs with the latest advanced computers, the institution had removed obsolete Core 2 Duo computers and replaced with i3/i5/i7 computers. Almost there were 80 Core 2 duo computers were found idle. The matter was referred to IQAC.

IQAC initiative to establish a coding laboratory:

- The IQAC has felt a need to establish a coding lab exclusively to use for enhancing coding skills of Non-Computer Science students. The IQAC had observed that, the students from EEE/ME students lack in programming skills because of which they losing the employability skills. It has suggested to establish a coding lab with these computers and suggested to keep it open after the college hours to make it available for these students.
- As the majority of students are residing in Hostels, this IQAC initiative is providing good results and many students have been gaining out of this initiative.

2. Support to Girl Students and Women Employees:

Often the hostel girl students were complaining choking of drain pipes. Upon observation it came to light that some girl students were throwing used napkins in toilet drain pipes that resulted in clogging drainage and giving rise to other health issues. The matter was referred to IQAC.

IQAC initiative to provide Sanitary Napkin Incinerators:

IQAC has felt need to provide sanitary napkin incinerators to resolve this problem. These napkin destroyers are very useful to destroy napkin waste in a very scientific and hygienic way. The used napkins are converted into a sterile ash. All the lady toilets are provided with sanitary napkin incinerators to create a hygienic environment.

Outcome: Promotion of hygiene environment in campus

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 of the JNTUHCEJ has brought the following reforms in the Teaching-Learning Process:

Planning and Monitoring Quality of Teaching-Learning Process

A Calendar of events including all the academic activities is prepared by IQAC. Consequently, HODs plan the Department activities before start of semester as given in the processes listed below:

- HODs circulates list of courses to be delivered for the ensuing semester for teachers to give their preferences.
- HODs allot courses to faculty based on experience, expertise, feedback and preferences given to them.
- Faculty prepares Course Files containing: Class Time Tables, Teaching Plan, Syllabus Copy, COs, CO-PO/PSO mapping.
- Faculty Delivers the course as per lesson plan and enters in Teaching Diary.
- Review of Teaching Diary by HOD periodically.
- Identification and remedy for slow learners, Identification and motivation to bright students.

IQAC Review Strategies:

The IQAC has developed a continuous review process on Teaching-Learning to sustain effective teaching-learning for targeted outcome. IQAC believes in appropriate planning for success. Following are few quality issue parameters on which review is conducted.

Review Parameter	Details	Frequency
Students Academics	Teaching-Learning Methodologies, Student Centric Methods, OBE, Self learning, Evaluation and reforms, Student Feedback on Teaching and Facilities, Student Mentoring, Professional bodies, Support to weak and encouragement to bright students.	Once in a semester
	Training, placements, Inculcating Research, IPR, Ethics, Projects Curricular, Co and Extra Curricular Activities., Student Clubs, Employability Skills	Once in a year
Staff Academics	Number of Guest Lectures, Faculty Development Programs, Feedback on Curriculum	Once in a semester
	Faculty Mentoring, Welfare	
	Research Projects, Supporting staff Training, Human Resources	Once in a year
Academic Facilities	Library, Hostel, Lab Infrastructural, Medical Facilities, Student and staff attendance.	Once in a semester
	Maintenance, ICT resources.	Once in a year
Audit Issues	Result Analysis, Academic Audits.	Once in a semester
	Financial Audits, Environmental audits, Contribution to society, SWOT Analysis.	Once in a year
Governance Issues	Disciplinary Activities, Grievances and redress, Woman empowerment, Faculty appraisals.	Once in a semester
	Welfare Schemes, Alumni Activities, Budget Allocations, Academic Calendars	Once in a year
	MOUs, Feedback from stake holders, Committees Engagement, E-Governance	

In few cases, solutions are provided directly by Mentor/HOD/Vice-Principal or by Principal directly for further action. The Principal plays a major role in referring issues to IQAC. For example, actions that need to be taken on disciplinary activities shall be referred to Disciplinary Committee. Academic grievances are handled by Teachers/HODs. Also, some non-academic complaints are forwarded to the appropriate committees by HOD/Principal for solutions and respective coordinators to follow up. However, if any issue requires a Policy making, the Principal usually refers the issue to IQAC.

In addition, IQAC coordinator being a senior Professor of the institution and having acquaintance with the entire functioning of the system, plays another major role after the Principal in preparing agenda for the IQAC meetings. IQAC is the instrumental body, as it does a critical thinking for giving constructive developmental suggestions.

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 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:

The parents of girl students of JNTUHCEJ institution are finding this institution as a safe and secured place for taking admissions to their children as evident that the college has a large number of **girl students that amounts to around 50%** of the total strength. In addition, a good number of women are working in the institution for the welfare of students. The following data support the statements.

The institution has been taking various measures and good initiatives to create an environment in the campus to give the feeling to every girl student as :

- The person is free from anxiety, depression, stress, relationships loneliness and adjusting to college.
- The person who mainly focus on empowerment, personal growth and equality above all a confident individual.

Measures and initiatives of the institution to promote GENDER EQUITY:

AY	Total Number of Students	Total Number of girl students	% of Girl Students	Total number of girl students in Hostels	Total number women staff
2015-16	1391	684	49.17	643	21
2016-17	1400	695	49.64	658	23
2017-18	1377	674	48.94	631	22
2018-19	1392	680	48.85	645	23
2019-20	1424	707	49.64	642	21
2020-21	1454	726	49.93	597	20

1.Safety and Security Related:

- The college has established a grievance and redressal cell working under the guidance of senior lady faculty.
- Anti-Ragging help line numbers are displayed at all vulnerable points.
- In-house hostel facility for girls in campus with single entry, 24/7 Security, CC TV surveillance, solar Fencing and in house care takers.
- Lady security are deployed in hostels.
- Bio Metric In/out attendance system employed in hostels.
- Stringent disciplinary actions are taken against the persons who are involved in-disciplinary activities.

2. Health and Physical fitness related:

- Napkin Vending and incinerators are provided in rest rooms to maintain health and better hygienic

conditions.

- Girl's waiting rooms are provided.
- Round the clock ambulance service.
- Round the clock health center for medical emergency with a part time MD qualified lady doctor with 06 beds, 02 consultation rooms and a pharmacy; 24 hours service in the campus.
- Gyms, Sports and games facilities are provided in hostels.
- Yoga classes are arranged for girl students.

3. Mental Fitness related

- Motivational speeches are arranged from renowned lady persons like IAS Topper, Superintendent of Police etc.
- Gender sensitization subject has been introduced since AY 2015-16.

4. Focus on Women empowerment and Personal Growth:

- Girl Students are made involved in various committees.
- Girl students are well encouraged in curricular and co curricular activities.
- Girl students are well encouraged with training programs for their personal growth.

5. Awareness towards Social Responsibilities:

- Girl Students are encouraged to perform General Election Duties (Webcasting). They did the allotted election duties performed with dedication and zeal.
- The college students are actively involved in social service activities. With the cooperation of Voice 4 Girls, students are encouraged to educate rural girls.

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:

JNTUHCEJ is functioning in a clean and green environment surrounded by hills. It can be regarded as **GURUKULA** (Traditional Schooling) as 90% of students stay in hostels. The college administration believes strongly in maintaining hygienic conditions in the campus by providing a clean environment to the residents.

WASTE COLLECTION IN CAMPUS

The waste collected from the campus is of the following types;

Bio-Degradable type:

The bio-degradable waste is mainly of Dry leaves, plant clippings, papers and paper cups/plates and other bio-degradable materials collected from mess and canteen.

Non-Bio-Degradable type:

The amount of non-biodegradable waste collection is minimum in the campus. The use of plastic is banned in the campus. The use of glass is minimum.

WASTE MANAGEMENT

Solid waste management

JNTUHCEJ is primarily involved in segregating and collecting waste through the use of dust bins and large containers which is then collected by agencies for further processing.

The institution follows paper reuse by utilizing single sided used papers for writing/printing. Dry leaves, plant clippings, papers and paper cups/plates and other bio-degradable materials are segregated and put in compost pits for decomposing. The vermin compost manure given to free of cost to nearby farmers for their crops.

Non-biodegradable waste is sold to scrap vendors on a regular basis. The institution provides dustbins at common places like corridors, which are cleaned regularly. The wet waste from the canteen is collected by the municipal garbage vehicle on a daily basis.

UPS batteries are refurbished by the sellers.

Liquid waste management:

Liquid waste from canteen and restrooms is connected through underground drainage pipes to the

drainage system. Institute also educates the students regarding rain water harvesting and takes up activities related to saving water campaigns. Trees and lawns are maintained with water drips and sprinklers to avoid water wastage.

E-waste management:

E- Waste is very minimal as the students are not encouraged to use CDs and other temporary e-resources. Other minor e-waste components are collected in each department and dumped in a place, which is sold to authorize e-waste vendor. Students are also educated by faculty on e-disposal.

Hazardous chemicals and radioactive waste management:

Radioactive materials are not being used in the institution. Hazardous chemicals like acids are used in the Chemistry laboratory for conducting practical classes for students. These acids are neutralized before disposing them off. They are thoroughly tested for traces of acids before safe disposal. The lab assistant handling the hazardous chemicals is given personal protection equipment while working on them. Precautions are taken while storing these chemicals.

MOU with URBAN REBOX IT Pvt Ltd:

The institution is having an MOU with **Urban Rebox IT Private Ltd**, an authorized agency of ITC. The institution has an agreement with REBOX to collect and give away the dry recyclable waste including any kind of paper waste, plastic, glass and e-waste generated in its college and form Swachh WOW Hyderabad Chapter.

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

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

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

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:

JNTUHCEJ can be regarded as a cosmopolitan kind of institution as many students with diversified background based on regional, linguistic, communal and socioeconomic students are pursuing their studies.

Students from neighboring states as well as from Jammu & Kashmir are studying in the college and are staying in the hostels.

Inculcating tolerance and harmony amongst students about the diversities

The JNTUHCEJ understands the importance of inculcating tolerance and harmony among students to cope up and live with others with diversified backgrounds. The Institution as “JNTUHCEJ family” shows immense pleasure and responsibility in the aspect of tolerance and harmony in the fields of cultural, regional, linguistic, communal socio-economic and other diversities. The institution takes much efforts and interest to empower education on moral and ethical values. The objectives of higher education policies of the nation are clearly reflected in the institute mission of providing education to all by ensuring equity and increasing access to education. Institute always focuses on a peaceful, healthy and comfortable campus for all the students. By conducting such events, the students gain experience and cultivate social responsibility and inculcate the interpersonal and intrapersonal skills through participation. The College fosters academic and career success through the development of critical thinking, effective communication, creativity and cultural awareness in a safe, accessible and affordable learning environment.

Efforts/Initiatives taken:

The following efforts have been practiced and implemented:

1. ***Tolerance and harmony towards cultural, regional, linguistic- Attitude-Family Culture:*** The attitude of a student or staff could be nice towards others, once a *family culture* is brought and maintained in the campus. Staff is guided to treat the students as their children. Students are guided to treat other students as their brothers and sisters. This family culture has a great effect in curtail various issues to create an inclusive environment that come from the background diversities in respect of cultural, regional, linguistic diversities.
2. ***Socioeconomic Diversity-Justice to innocents-Unity in diversity:*** It is important to give confidence among students and staff that only undisciplined persons shall only being punished and justice is always done for innocents irrespective of their background. Once this confidence is given, the *unity in diversity* can well be achieved. This initiative has a great effect in curtail various issues to create an inclusive environment that come from the background diversities in respect of socioeconomic diversities.
3. ***Promotion of National Integrity-Celebration of National Festivals-Patriotic Culture:*** Institution understands the importance of celebrating National level Festivals like Independence Day, Ambedkar Jayanthi etc.. The administration celebrates these festivals ritually as an attempt to bring *patriotic culture* among students and staff.
4. ***Communal Diversities-Celebration of Ritual Festivals- Promotion of Integrity:*** To provide an inclusive environment i.e., communal, socio-economic etc., the institution celebrates important ritual festivals like Ganesh Chathrdasi, Pre-Christmas and Ramdan. Irrespective of the community they belong, all the staff and students celebrates these functions with more enthusiastically. This is promoting *integrity* in the campus.

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 institution is putting all its efforts to make everyone feel responsible to the Nation. Usually, the students are educated of the following:

- *Role of India in the history of World*
- *The culture and constitution of INDIA.*
- *Role of great stalwarts in making the country independent.*
- *Rights, Ethics and responsibilities of the citizens of India.*

1. Values: Inculcate every one with a respect to Indian Culture

The institution is putting the best of its efforts to eliminate the ill effects of advancements in the technology such as misusing of mobile phones particularly in the following aspects.

- (i) How mobile phone is curbing the Indian culture and values
- (ii) How not internet be used
- (iii) Relations with fellow-beings particularly with other gender
- (iv) Relationship with elders particularly with parents, teachers and seniors

The mentors are advised to address these issues by observing their mentees and advise them time to time. The faculty is advised to keep them busy academically so as to minimize the misuse of mobile phone and restrict only for useful purposes. In addition, the institution organizes festivals that make the persons remember the values of our cultures like Bathukamma, Sankranthi, Ramzan, X-mas and so forth..

2. Rights: Inculcate every one with a respect to know the rights as an Indian

The institution encourages students and staff participation in various awareness programs such as the importance of the fundamental rights (e.g. right to Vote, Right to information, right to speech etc.). The NSS unit of JNTUHCEJ is actively organizing such events and programs. The NSS Teams are so trained in these aspects, who in turn will bring awareness to their fellow students and even to the nearby villages too.

3. Duties: Inculcate every one to discharge the duties properly

The institution defined the duties of each and every position by observing the code of conduct. in addition every individual including students enthusiastically participate in executing the duties and activities that are demanded by the Governments of the state and centre such as

- 1.Principal, staff and students have helped the district administration in organizing the General Elections.
- 2.Students and staff have participated in the election work as volunteers and web casting officials with great enthusiasm and got appreciation certificates from the district election officer.
- 3.Covid-19 awareness & 'Save Environment' programs

4. Responsibilities: Inculcate everyone to feel responsible to the Nation and its growth

NSS unit is promoting digital literacy, Swatch Bharath, No-Plastic drive, paying tax, save water, save environment programs, blood donation, eye camp and so forth for the benefit of the surrounding villagers. Girl students are educating village girls on the importance of education, and ill-effects of child-marriages. The student volunteers with the association of Voice 4 Girls a non profitable social organization are organizing such events in the neighborhood villages.

5. Ethics:

The Curriculum includes: (a) Constitution of India; (b) Professional Ethics; (c) Cyber Security (d) Intellectual Property Rights to make students understand the ethical responsibilities to students.

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

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

Response:

The institution celebrates International commemorative days like;

- International Yoga day,
- Women's day,

National commemorative days like:

- Teachers day,
- Independence day,
- Republic day,

- Voters day
- Gandhi Jayanthi,
- Ambedkar Jayanti,

The Principal and faculty narrate the importance of Days of National Importance as described below:

Sl.No	Day/ Month	Name	Importance to remember the day
1	26/01	Republic Day	Constitution came in to force
2	22/03	World Water Day	Importance of fresh water and advocating the importance of fresh water resources.
3	11/05	National Technology Day	To mark India's technological advances and to promote the development of technology in various fields.
4	14/06	World Blood Donor Day	Encourages faculty/students to donate blood voluntarily without compensation. To raise awareness that individuals can save lives of others.
5	15/08	Independence Day	Marks end of British's rule in 1947.
6	05/09	Teacher's Day	This day has been dedicated to the teaching staff. It is celebrated every year to commemorate the birth anniversary of former President Dr. Sarvepalli Radhakrishnan.
7	15/09	Engineer's Day	This day students take a pledge to promote and encourage the youth to select for Engineering Education. To produce quality engineers for the bright future of our country.
8	02/10	Gandhi Jayanthi	Birth Anniversary of FATHER OF NATION

Other Celebrations:

Renowned Yoga professionals are invited on the occasion of International Yoga Day celebration. A session of basic yoga is taught to the students and staff.

Every year the institution celebrates International Women's Day with a theme like-Women empowerment, women in industries, work-life balance, balance for the better, etc..

Eco-friendly Ganesh idols are distributed by the students to create awareness to the public on environmental issues every year on Vinayaka Chaturthi. Various festivals like Sankranti, Deepavali, Bathakamma, pre christmus are also celebrated in the campus. Altogether, JNTUHCEJ is a symbol of social values, culture, ethics and education.

College Festivals:

The annual techfest SIZZLES is organized in the college and students from other colleges are invited to participate in various technical and cultural competitions. Attractive prizes are given away to the winners in these competitions.

Cultural fest named SIZZLES is organized by the students with great vigor. The students and staff attend these fests with great enthusiasm.

In campus welcome for freshers, farewell to final year students, annual day cultural fest, technical fest are also organized by the college which enhance the ethics and morals of the students.

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 PRACTICES OF THE INSTITUTION-1

1. Title of the Practice: BIOMETRIC IN/OUT SYSTEM WITH SMS ALERTS TO PARENTS

2. Objectives of the Practice:

The institution can be regarded as “GURUKULA” as more than 90% of students and faculty reside in the campus. The prime objective of the institution has to focus on residents' safety and security provisions to all in general and girl students in particular. These provisions are helpful for creating and maintaining a safety and pleasant environment in the campus.

3. The Context:

Since the institution is situated in a remote area away from the populous society, there is a possibility of being attacked by wild animals or social animals; which necessitated the institution record the entry and exit of the students. The protection of students as long as they are in the campus is the responsibility of that institution. So, in this evolution, the institution initiated a Biometric *IN/OUT system with SMS alert to parents*.

4. The Practice:

The biometric system plays the most important role in this current century. Fingerprint identification is one among the foremost distinguished and familiar identity verification systems due to its individuality.

The system is specially proposed for hostel management and monitoring security in the institution is one of the most persistent issues that institution must address.

This system automatically monitors the entry and exit of students from hostels or campus and offers alert SMS to parents for their safety.

The authentication can also be made as more secure for the security purpose.

In this interest, the institute mandated a three step procedure to allow the students outing from the college premises.

1. Filling in the application form: The outgoing students fill in the form, which demands the

purpose and details of the students.

2. **Caretaker phone call to parent / guardian:** After making a confirmation call to the parent guardians of the student the caretaker signs the form and hands over to the student.
3. **Biometric Authentication and SMS alert:** At the main entrance, the student submits the form to the security on duty. Security enters the details of the students in the login register. Student authenticates his/her exit with a thumb impression. Soon after the authentication an SMS alert with exit details of the students will be sent to the parent/ guardian's mobile. The reverse order of the procedure will be followed while the student enters the campus.

5. Evidence of success:

The satisfaction of parents. This practice proved successful in maintaining discipline among the student commitment.

6. Problems encountered and resources required:

Though parents have expressed their satisfaction for the initiative taken, students were not converged with the level of discipline. However, with the cooperation of parents, the system has been successfully implemented and is now in practice. Internet problems sometimes create hindrances in its functionality.

BEST PRACTICES OF THE INSTITUTION-2

1. Title: Alumni Member for Counseling Services (AMCS)

2. Objective of the practice:

- To motivate students to excel in academic, emotional and social aspects.
- Counselling by alumni of JNTUHCEJ helps current students for their all round development by moulding them to face practical problems in real life.
- To guide the students to choose their career and higher studies.
- To motivate the students to adopt the right attitude towards life and become good citizens of the country.

3. The Context:

Since most of the students of JNTUHCEJ are from semi rural and rural background, it is imperative for the institution to guide the students from the beginning itself for their all round development. This is inevitable as the students are not matured enough to face ever changing technological scenarios. Through the **Alumni Member for Counseling Services (AMCS)** System, students are advised in academic and non academic matters and also in personal domain. This helps them to achieve their goals in life. This scheme aims at addressing the deficiencies in attitude, habits and knowledge of the students.

4. The Practice:

- The alumni coordinator identifies “*Notable Alumni*” based on their profile and academic achievements.
- **All these Alumni are appointed as Alumni Member for Counselling Services (AMCS)** and these AMCS members are divided into four groups:

- 1.IT Sector Group
- 2.Government Sector Group.
- 3.Higher Education Group.
- 4.Entrepreneurs Group.

- The Alumni Coordinator prepares Google Form and circulates among B.Tech II and III Year students. This Google form provides the data pertaining to the choice of their interest they want to become in future.
- Based on their choice, they are also divided into four groups, similar to AMCS groups.
- The communication between the AMCS and students is established by the Alumni Coordinator.
- Based on the AMCS convenience, online meetings are arranged between AMCS and current students.
- During the interactive meetings, AMCS provides necessary inputs for current students to mould their campus life to achieve their chosen career choice.

5. Evidence of Success:

When compared to Teachers as mentors, the students are well motivated by alumni. Despite having a rural background, the students are able to understand the importance of developing soft skills probably may be due to the frequency of AMCS and students matching.

6. Problems Encountered:

Convincing JNTUHCEJ Alumni to act as AMCS is a major task as many alumni are reluctant to act as AMCS, probably may be due to their professional business.

Notes: Due to this AMCS System practiced by the JNTUHCEJ, there have been remarkable improvements in the attitude, behaviour and overall performance of the students is observed.

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 distinctiveness of the institution can be identified by its “Discipline”, facilities and various other aspects that make the institution as “GURUKULA”.

JNTUHCEJ Distinctiveness

The institution’s distinctiveness can be identified from these following aspects:

- 1.Availability of Principal, Faculty and Staff in the Campus for 24/7.
- 2.Availability of Authors of the Text Books (recommended by University) as Faculty.
- 3.Availability of Highly experienced and highly Qualified Faculty.

4. Availability of Huge number of Research guiding Faculty.
5. Availability of spacious well ventilated class rooms with ICT facilities.
6. Availability of laboratories with state of art equipment.
7. Availability of Green and pollution free environment.
8. Availability of Ragging free environment.
9. Availability Laboratories, Library and ICT facilities for 24/7.
10. Availability of Security personnel & e-surveillance by CC cameras for 24/7.
11. Availability of Uninterrupted power supply and solar street lights.
12. Availability of Medical Facilities for 24/7
13. Availability Pure RO Drinking water system.
14. Availability of Facilities for student extra and co-curricular activities.
15. Availability of Open Auditorium and Auditorium
16. Availability Seminar Halls
17. Availability Transport Facilities
18. Availability of Strong Alumni Network.
19. Availability of Training and Placement Officer.

The details of all the aspects listed above are as follows:

1. Availability of Principal, Faculty and Staff in the Campus for 24/7

The institution is having four hostel buildings to accommodate as many as the admitted. In addition, it has Staff Quarters in the campus. Majority of students, staff, faculty as well as the Principal of the institution resides in the campus, making the institution as “GURUKULA”.

2. Availability of Authors of the Text Books recommended by University.

Many of the faculty are well converged with the curriculum contents. That 7 faculty members are the authors of 30 numbers of Text Books those prescribed as Text books by the university. It also helps other faculty to clear their doubts.

3. Availability of highly experienced and highly Qualified Faculty

Majority of regular faculty members are Ph.D qualified and supervising the thesis of their Ph.D students. Students were awarded Ph.D under their supervision. Few of the full time faculty is also Ph.D qualified. The teaching experience of Regular Faculty ranges minimum from 10 years to a maximum of 28 years.

4. Availability of huge number of Research guiding Faculty.

Majority of teaching faculty are appointed as supervisors for guiding Ph.D students by the University. Quite a good number of students were already awarded with Ph.D under their supervision.

5. Availability of spacious well ventilated class rooms with ICT facilities.

The institution has a sufficient number of class rooms. The class rooms are well ventilated, highly spacious and provided with all ICT facilities.

6. Availability of laboratories with state of art equipment.

The laboratories are well equipped with state-of-art equipment. The campus is having additional lab equipment other than those required as per the curriculum for student research work. The computer labs are provided with i5/i7 computers and provided with servers.

7. Availability of Green and pollution free environment.

The campus is situated in a 100 acres area surrounded by hills and forest area. The environment is totally free from noise and other prolusions. The student can pay his full attention on studies and focus only towards his career building aspects.

.8. Availability of ragging free environment

The disciplinary levels in the campus are high standard as evident that no ragging incidents were recorded in the recent past. The institution can be declared as a “Ragging Free” campus.

9. Availability Laboratories, Library and ICT facilities for 24/7.

As the vast majority of students and staff are residing in the campus, the library, laboratory and ICT facilities are made available to students on 24/7 basis on demand. However, on a regular basis the library, digital library and coding lab are open from 8 AM-8 PM and 24/7 Internet Computer center is open from 8 AM to 10 PM including Sundays. On public holidays, they are open from 10 AM to 5 PM.

10. Availability of Security personnel & e-surveillance by CC cameras for 24/7

The institution appointed one retired Army personnel as Chief Security Officer (CSO). The CSO resides on campus. About 45 security staff and 3-supervisors in 3-shifts for the entire 24 hours of the day.

About 178 Security service CC surveillance CC cameras are installed at important locations for safety and security of residents of campus.

11. Availability of Uninterrupted power supply and solar street lights

The campus is 4 DC Generators with almost 500 KVA in total and 50 solar street lights.

12. Availability of Medical Facilities for 24/7

The institution has a 10-bed dispensary center. Two part time MD qualified Male and Female Doctors are looking after the dispensary. 3-Male MNOs and 4-Female FNOs are working in 3-shifts to take care of medical needs of students. UPS Facility and Ambulance are also available with dispensary.

13. Availability Pure RO Drinking water system.

Two RO plants are installed in the campus for pure and safe drinking water.

14. Availability of Facilities for student extra and co-curricular activities.

Football, Cricket grounds, shuttle. Volleyball courts, Gym equipment, Indoor games and auditoriums for fine arts are available in the campus.

15. Availability of Open Auditorium and Auditorium.

For organizing cultural events an open auditorium and air conditioned 300 capacity auditoriums with audio and video facilities are available.

16. Availability of Seminar Halls

Three air conditioned department seminar halls with 100 seat capacity each with all ICT facilities and with Visual Interactive Panel Boards are available to organize seminars and workshops.

17. Availability of Transport Facilities

A 50 Seat Bus, Ambulance and other vehicles are available.

18. Availability of Strong Alumni Network

Academically and professionally excelled notables alumni are acting as Alumni Member for Counseling Services (AMCS) members and counseling current students for their career enrichments.

19. Availability of Training and Placement Officer.

Under the leadership of TPO, with the association of training sectors under MOUs, the students are enriching their employability skills and acquired campus placements.

5. CONCLUSION

Additional Information :

1. **NPTEL/SWAYAM:** The institution is a local chapter for SWAYAM.
2. **Test Centre:** the institution has TCS iON Test centre for conduction of competitive exam such as TSEAMCET, TSECET
3. **TASK:** The institution entered into an MoU with Government of Telangana State driven organization namely Telangana Academy for Skill and Knowledge (TASK) with a special agreement of providing training on Electronic System Design and Manufacturing (ESDM) sector in the state of Telangana.
4. **ESSCI:** The institution entered into MoU with non-profit company of GoI (Estd U/S 25 of Companies Act 1956) namely, Electronics Sector Skills Council of India (ESSCI) for verification and assessments of credentials of trainers, qualification packs and National Occupational Standards (NOS).
5. **NIT-Warangal:** The institution entered into MoU with National Institute of Technology – Warangal for knowledge sharing in order to facilitate collaborative research work, to establish academic and to scientific relationship and to promote joint research activities.
6. **JNTUH:** The institution is the constituent college of the Jawaharlal Nehru Technological University Hyderabad, the University of International Repute.
7. **Research Supervisors:** The institution an ocean of knowledge with **24** number of research supervisors recognized by the JNTUH and various other universities of India such as JNTUK, JNTUA, Dr.BRAOU, KU, OU, IGNOU and other universities. Hither to, **42** doctorates are produced and **35** are under pipeline.
8. **Authors of Text Books: Seven (7)** Faculty members are authors of text books in various fields of their interests which are the recommended and reference books in national and international universities and institutions. Totally **31** books are published with reputed international/national publishers.
9. **Publications:** The institution is rich knowledge bank that produced as large as **865** research publications by their faculty.
10. **Exposure to International standards:** About **20** faculty members have visited foreign countries and foreign universities for presenting the papers in international conferences. The Principal deserves a special mention here, for visiting **17** countries including Canada, USA, UK, Germany, Australia, New Zealand and many more.
11. **BOS Members and Academic Senates:** about **8** professors are acting as members of BoS and Academic Senates.

Concluding Remarks :

The institution relentlessly provides qualitative and value added education for all-round development of employable graduates endowed with lifelong learning skills and ethics at professional and personal level. The institution being the constituent college, is funded by the JNTUH, and further aspires to get funds and grants for research, and provide incentives to faculty and students.

The institute regards the need for accreditations from various bodies. Thence, for further enhancement, it emerged out with NBA accreditation during 2019. Furthermore, college steps up the accreditation with NAAC, in anticipation of offering more advanced Outcome Based technical and socially relevant inter and multi disciplinary courses for improving the career prospects of students.

The institution has all the statutory committees such as Executive Council, Academic Council, Boards of Studies, Finance committee at University level while IQAC, Purchase Committee and other non-statutory committees at institution level that take care of strategy formulation, policy decisions related to academic and non-academic activities and their implementation. IQAC has been contributing significantly to sustain and enhance the quality in all respects of the institution functioning. The faculty and staff are governed by the service rules of the institution in line with the regulatory bodies.

The Training and Placement cell imparts necessary training for the students and assists them in securing placements. The institution hopes to take up many more initiatives for progression of students towards good employment as well as higher education. In addition, it allows no stone unturned to take initiatives for sensitizing the students in environmental consciousness and gender issues, ethical values as disciplined and versatile engineers.

In a single sentence, the college envisions its products as ‘GEMS OF INDIA’

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.1.3	<p>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</p> <p>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</p> <p>Answer before DVV Verification : A. All of the above Answer After DVV Verification: A. All of the above</p>																				
1.3.2	<p>Average percentage of courses that include experiential learning through project work/field work/internship during last five years</p> <p>1.3.2.1. Number of courses that include experiential learning through project work/field work/internship year-wise during last five years</p> <p>Answer before DVV Verification:</p> <table><tr><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td></tr><tr><td>312</td><td>314</td><td>300</td><td>323</td><td>326</td></tr></table> <p>Answer After DVV Verification :</p> <table><tr><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td></tr><tr><td>410</td><td>400</td><td>401</td><td>377</td><td>362</td></tr></table>	2019-20	2018-19	2017-18	2016-17	2015-16	312	314	300	323	326	2019-20	2018-19	2017-18	2016-17	2015-16	410	400	401	377	362
2019-20	2018-19	2017-18	2016-17	2015-16																	
312	314	300	323	326																	
2019-20	2018-19	2017-18	2016-17	2015-16																	
410	400	401	377	362																	
1.3.3	<p>Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year</p> <p>1.3.3.1. Number of students undertaking project work/field work / internships</p> <p>Answer before DVV Verification : 431 Answer after DVV Verification: 372</p>																				
2.1.2	<p>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)</p> <p>2.1.2.1. Number of actual students admitted from the reserved categories year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table><tr><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td></tr><tr><td>225</td><td>225</td><td>225</td><td>225</td><td>225</td></tr></table>	2019-20	2018-19	2017-18	2016-17	2015-16	225	225	225	225	225										
2019-20	2018-19	2017-18	2016-17	2015-16																	
225	225	225	225	225																	

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
216	217	194	202	195

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

2.3.3.1. Number of mentors

Answer before DVV Verification : 93

Answer after DVV Verification: 89

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)

2.4.3.1. Total experience of full-time teachers

Answer before DVV Verification : 763

Answer after DVV Verification: 749

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)

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)

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
19.79	0	0	0	0

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
22.29	0	0	0	0

3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year

3.5.1.1. Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
22	22	24	19	07

Answer After DVV Verification :

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2019-20	2018-19	2017-18	2016-17	2015-16
22	22	23	19	07

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

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

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
13	07	07	04	03

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
09	07	07	04	03

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)

4.1.3.1. Number of classrooms and seminar halls with ICT facilities

Answer before DVV Verification : 32

Answer after DVV Verification: 31

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)

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)

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
104.99	105.28	109.83	90.38	66.52

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
1.93	2.16	19.6	1.26	1.14

Remark : Observation accepted

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

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

Answer before DVV Verification : 305

Answer after DVV Verification: 405

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)

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)

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
236.51	178.8	188.94	159.54	143.60

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
0236.51	0178.8	0188.94	0159.54	0143.60

Remark : Observation not accepted because input values & supporting document are matched

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.

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.

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
4	14	12	12	10

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
3	12	11	11	8

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)

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

Answer before DVV Verification:

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

13	07	08	06	06
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Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
13	03	07	08	06

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**

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**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
1	0	1	10	05

Answer After DVV Verification :

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

Remark : The input is edited because the financial support to regular faculty for attending conferences/Workshops etc. shall only be sanctioned by the Institution.

2.Extended Profile Deviations

2. Extended Form Deviations

ID	Extended Questions																				
1.1	<p>Number of courses offered by the Institution across all programs during the last five years</p> <p>Answer before DVV Verification:</p> <table><tr><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td></tr><tr><td>443</td><td>483</td><td>531</td><td>494</td><td>518</td></tr></table> <p>Answer After DVV Verification:</p> <table><tr><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td></tr><tr><td>492</td><td>481</td><td>527</td><td>473</td><td>426</td></tr></table>	2019-20	2018-19	2017-18	2016-17	2015-16	443	483	531	494	518	2019-20	2018-19	2017-18	2016-17	2015-16	492	481	527	473	426
2019-20	2018-19	2017-18	2016-17	2015-16																	
443	483	531	494	518																	
2019-20	2018-19	2017-18	2016-17	2015-16																	
492	481	527	473	426																	
2.1	<p>Number of students year-wise during last five years</p> <p>Answer before DVV Verification:</p> <table><tr><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table>	2019-20	2018-19	2017-18	2016-17	2015-16															
2019-20	2018-19	2017-18	2016-17	2015-16																	

1424	1392	1377	1400	1391
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Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
1349	1332	1336	1368	1359

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

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
91	90	95	93	89

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
89	88	93	91	87

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

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
100	100	100	100	100

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
100	100	100	100	100