



SELF STUDY REPORT

FOR

2nd CYCLE OF ACCREDITATION

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA,
KAKINADA, ANDHRA PRADESH**

533003

www.jntuk.edu.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

January 2023

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Jawaharlal Nehru Technological University Kakinada (JNTUK) was initially incepted with the name The College of Engineering Vizagapatnam in 1946. The University grew out of that college, which was founded by the government of the composite Madras State.

Spread over a sprawling campus of 110 acres in port city of Kakinada, the college became a constituent of JNTU Hyderabad in 1972. Subject to the bifurcation of the JNTUs, it was notified as JNTUK Kakinada by the act of legislature in 2008.

The jurisdiction of JNTU-Kakinada extends over districts of East Godavari, West Godavari, Krishna, Guntur and Prakasam. The University has nearly 159 affiliated colleges under the jurisdiction of 5 districts offering engineering courses, Pharmacy program in Undergraduate and Post Graduate Programs and management programs. The colleges are governed by the rules and guidelines provided by the University from time to time. JNTUK has produced highly professional and competitive Engineers by infusing greater quality and content into the curriculum and educating the students with appropriate skills suitable for a rapidly challenging industrial scenario. To improve the Quality of Technical Education, it has participated actively in a number of national programmes like Teacher Quality Improvement Programme, University-Industry Interaction through consultancy, Continuing Education Programmes and Expansion of infrastructure facilities for Emerging Technologies.

University has established number of higher learning institutes such as Institute of Science and Technology (IS&T), Food Processing Technology (FPS) and Petroleum Engineering (PE). The University is also offering Research Programmes in all disciplines of engineering both Full time and External registrations. With many professional colleges coming up in private sector, need has arisen to improve the quality of teaching. It necessitates providing continuous refresher courses to the teachers for updating and acquiring additional skills in new areas.

University BoS composed with reputed persons from Higher Learning Institutes and industry and revises its course structure and syllabi regularly for every three years. In 2015, started customized MOOCS with the support from senior faculty of IITs and industry persons and handled various courses to its affiliated colleges.

To enhance and focus on research, the University has established a Research and Development Cell and provided Scholarships for fulltime Research Scholars to increase number of in-house Researchers.

Vision

The University is primarily promoting quality of education in the areas of Science, Technology, Engineering and Management (STEM) as four academic pillars of education, to excel in teaching, learning, research, consultancy and placements through innovative practices with global perspective

Mission

The University is moving forward with a mission of promoting excellence, access, inclusion and relevance in quality in Science, Technology, Engineering and Management, namely

- Design an Industry relevant curriculum from time to time with a Global perspective
- Promoting quality education by embracing ICT delivery mechanism with continuous pedagogy through e-learning mechanism
- Spread across for industry collaborations with a focus to pre-training and placements for technology transfer to society
- Establishing centres of excellence to promote research and innovations in multidisciplinary areas to bring in patent culture and consultancy practices
- International Collaborations for student outreach
- Facilitating international students to study in JNTUK to infuse cross culture learning practices.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

Institutional Strength

1. JNTU Kakinada is the largest technological university in the state of Andhra Pradesh. JNTU Kakinada is managing large affiliation system
2. JNTUK is offering quality technical education with regular curriculum revision for every three years and currently offering the curriculum with emphasis on skill oriented courses, Internships, community service projects and multidisciplinary courses.
3. Highly motivated, renowned faculty (50% of the regular faculty members have PhD degrees from IITs, IISc and NITs) with strong work ethics and commitment to quality education, positive morale and commitment are the back-bone of the Institution.
4. The best rankers of the state in the state level entrance examinations will get the admission into various units of University.
5. The University produced 447 PhDs, 745 research publications in referred journals, 236 conference proceedings/book chapters during the assessment period.
6. JNTUK and its constituent colleges have been sanctioned Research projects and establishments, worth of Rs. 896 Lakhs during the assessment period 2017-18 to 2021-22. Internal revenue generation through Industrial consultancy stands at Rs.94 Lakhs on an average per year.

7. JNTUK has large alumni network spread over the globe and donated an amount of Rs.2.5 crores during the assessment period for various infra structure development activities.

Institutional Weakness

- 1.All the departments are not actively involved in the consultancy activities.
- 2.In some of the departments, limited Industry- Institute interaction.
- 3.Limited collaborative PG programmes with Industry and International Institutions.
- 4.Introduction of new PG programs require additional resources in the form of teaching faculty, library and equipment.
- 5.Practical skills are to be updated for the technical staff.
- 6.Students admitted are from different attainment levels due to Government policies and some students have rural background. Considerable efforts are needed to be put under Equity Action Plan (EAP).
- 7.Faculty attainment levels are also different and need to be honed under EAP.
- 8.Gaps exist in faculty members level of exposure to industry practices and industry requirements.

Institutional Opportunity

1. Kakinada has been declared as a petroleum corridor opening up possibilities for better employment, started new PG, Executive PhD programs with industry collaboration and joint research with oil industry.
2. Faculty can utilize the expertise of distinguished and prominent alumni of JNTUK for better networking and improved consultancy.
3. Being a member of IUCEE consortium, a great opportunity for exposure to US Professors and Institutions, for competence enhancements, faculty exchange etc.
4. Possibilities of more TOT (Training of Trainees) programs for all faculty by our trained faculty by US professors and industry mission 10X programs as part of collaborative programs with Wipro.
5. Opportunities for lifelong learning, skills development, quality enhancements etc for faculty, staff and students through either fully funded or subsidized deputation programs or internships.
6. The institute-industry interaction is showing increasing trend of collaboration with several industries like BEL, Honeywell, Tejas Network lab, Cyient and Computer Society Corporation etc., enabling new, collaborative PG, PhD, Labs and Centers of Excellence.
7. More opportunities exist to receive grants and research funds from organizations like AICTE, MHRD, DST, DBT, DRDL, TEQIP etc.
8. Huge Alumni Base, mass of whom are occupying strategic position in Industries, Government and are also mostly in abroad, which can result in substantial mobilization of resources.
9. Promoting entrepreneurship among students to enable more employment for social upliftment.

Institutional Challenge

1. A threat of trained faculty migrating to regional and internationally located private, and Government Universities especially to foreign universities.
2. Rapidly Advancing Technology results in equipment getting outdated, requiring huge resources for replacement.
3. Constant need for improving facilities, financial support and industry interaction that will increase the employability.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The university publishes the academic calendar for both the semesters prior to the commencement of the class work for an academic year. The academic calendar provides date of commencement of academic session, duration of the semester, period of internal assessment tests and final semester exams. All the Units of the University follows the Academic Calendar strictly. The College Academic Committee (CAC) comprising of all the heads of departments and professors as its members headed by the Principal. The CAC discusses the scheme and syllabi. The heads of the departments allocate subjects to faculty by considering the qualification and specialization. The faculty prepare the teaching plan and document it in detail based on topic intensity and time constraint for the semester. The preparation of such a plan helps with effective distribution of syllabus, clarity of curriculum and timely completion of the course.

The university implements student centric “Choice Based Credit System (CBCS)”.

The University realizes 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.

In the revised curriculum, a pool of interdisciplinary and job-oriented mandatory skill courses which are relevant to the industry are integrated into the curriculum of concerned branch of engineering (total five skill courses: two basic level skill courses, one on soft skills and other two on advanced level skill courses). Open electives and profession electives will be offered by each programme. All the students are encouraged to take a Discipline Centric Elective Course through Massive Open Online Course (MOOC) as Program Elective course offered by SWAYAM/NPTEL All the students shall be registering mandatorily for NCC, NSS activities and Community Service Project as per the Government and University norms which are experiential learning strategies that integrates meaningful community service with instruction, participation, learning and community development. The University will revise the curriculum for every three years. B. Tech. with Honors or a B. Tech. with a Minor will be awarded if the student earns 20 additional credits are acquired as per the regulations/guidelines.

To suit to the local needs, the university is offering undergraduate courses (B. Tech) in petrochemical and petroleum engineering. To suit to the national needs, the university has introduced the programme of B. Tech in Food Engineering in the year 2020 and also M.Tech in Food Processing Technology since 2010-11 which are being run by the School of Food Technology.

The institution collects feedback from the students during the semester regarding the performance of teachers

Teaching-learning and Evaluation

The admission into B.Tech programme is based on EAMCET or ECET ranks, the admission into M.Tech programme is based on GATE or PGECET and the admissions into MBA and MCA programmes are based on ICET rank and the admissions for M.Pharmacy are based on GPAT and all the admissions are Online through transparent Admission Process. The best rankers of the state in the above entrance examinations will get the admission into the College.

The institution identifies the slow learners by their performance in first internal examinations. Based on that performance remedial/preparatory classes will be conducted for slow learners. The institute, give emphasis on improving the performance of slow learners by providing remedial programmes which are conducted outside regular classes.

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

For advanced learners value added courses are suggested and offered.

For advanced learners Minor or Honours are offered and students are perusing Minor/Honours or and MOOCS courses.

Also, Advanced learners are given opportunities to be part of innovative projects at university innovation and incubation centres. The teaching –learning modalities are rendered to students by incorporating the Bloom’s Taxonomy into the development of course and Programme outcomes.

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.

Research, Innovations and Extension

JNTUK has an exclusive **Design Innovation Centre** built under the Prestigious project, “National Initiative for Design Innovation”, from MHRD, New Delhi with a Financial grant of Rs.10 Crores to facilitate design-focused research. The scheme is intended to promote the culture of innovations in the institute.

There are 3 collaborators for the Design Innovation project, viz., Acharya Nagarjuna University (ANU), Guntur, IIT, Nuzvid and, IIT, RK Valley, Pulivendula

To develop Innovation and enterpreneurship culture an exclusive **Directorate for Incubation and IPR** was established. Efforts are made to bring faculty and students from different domains together on a single platform to share ideas, help and learn from each other and provide solutions to Realtime societal sensitive problems.

- The project titled “Establishing a Blockchain-based Financial Information Sharing Ecosystem with Intelligent Automation” submitted in collaboration with University of Missouri and Tetrasoft Ltd., as industry partner was awarded US \$44,862 by US Government under “Partnership 2020” grant.

Also a good number of innovative prototypes useful to the society are developed by Incubation Centre

Under Design Innovation center, with JNTUK as hub and is working in the area “Development of Cutting tools” and the three collaborators, Acharya Nagarjuna University, Guntur is working in Biodegradable polymers, IIT, Nuzivid is working in Biosensors, IIT, RK Valley is working in Bio-mass Gas stoves.

Also an Innovative product Bike Ambulance for Tribal People is designed for which the patent is filed and published

- Special encouragement is given for sports, cultural activities organized by NSS to inculcate leadership qualities and also to boost self confidence and team spirit.

NSS Cell with students volunteers where the students actively gets involved in social responsibilities within the campus, neighborhood community, etc. There are three NSS units available in the campus. The NSS programs will help students to develop holistically. The faculty and the students gets a chance to meet and interact with public and public servants who may get inspired to serve the society at large. This activity will help the stakeholders to realize the importance of the NSS activity which helps the transformation of the life style of the community towards healthy environment. One of the important services rendered by NSS volunteers is disseminating information about latest developments, non-conventional energy, sanitation, nutrition and personal hygiene etc

Infrastructure and Learning Resources

The University has provided adequate physical and updated academic facilities as per the requirement of the university and the need of the students. The specific location of the college provides pollution free and natural environment. The total built up area is 728945.35 sq.mts. There are various Departments having spacious classrooms with proper infrastructure in the college.

JNTUK is the technological university in the entire east Godavari district with excellent academic facilities to impart effective learning among the students set in pollution free and natural environment with a build-up area of 728945 sq. metres. JNTUK has B.Tech, M.Tech in the streams of CSE, ECE, EEE, Mechanical, Chemical and Petrochemical Engineering along with School of Management Studies, Pharmacy, Food Technology, Bio –Technology, Nano technology, and Avionics. JNTUK has 71 spacious classrooms of with majority of the classes have ICT facilities. The university holds physics and chemistry labs for experiments along with the soft skills labs for the first year students. The JNTUK being technological university has state of the art technology labs with high configuration systems and qualified teaching faculty. There are six hundred and one computer system exclusively for students of different departments enabling them to be techno – savvy and to match with the industry requirements. The students of JNTUK take up various courses to match with their course structure and their career requirement. The computers are provided with the needed software as per the student requirements.

Pharmacy labs – pharmacology, pharmacognosy, medicinal chemistry, organic chemistry, pharmaceutical analysis and pharmaceuticals.

Engineering students have IT labs for Excel, Data analytics, C, C++, Java, SQL, AI etc.,

The students of JNTUK take up various courses to match with their course structure and their career requirement. The computers are installed with the needed software as per the student requirements and the laboratories keep on changing their courses with the changing needs of the industry.

The classrooms have proper ventilation and maintained in a harmonious environment enabling effective learning for the students. The faculty have access to the e- resources to keep up with the changing trends and design appropriate teaching pedagogies that match the student requirements. The faculty are available in the staff room to clarify any doubts. The students are encouraged to prepare for competitive exams through peer group learning and guided by staff on demand. The IT laboratories are also instrumental in providing online learning and taking online tests for campus recruitment.

Student Support and Progression

The University has a very good student support and progression system for around development of every student. The University 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 53.56%. Guidance for Competitive Examinations and Career Counselling, 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 counselling offered by the Institution during the last five years is about 69.19%.

An exclusive Directorate named Empowerment of Women & Grievances in the university is established to promote gender sensitivity in the University and conduct diverse programmes to educate, sensitize female members, and produce harmonious atmosphere on the campus. The university offers value based education through Courses like Ethics, Universal Human Values, Environmental Sciences, Indian Constitution, Essence of Indian Traditional Knowledge etc., by including them in curriculum as mandatory courses.

The University conducts workshops regularly on IPR and Research Methodology. While conducting Board of Studies meeting, Feedback from students, faculty, alumni and experts from industry and Higher Learning institutes is taken in to consideration which will improve the quality of curriculum.

- The Alumni Association “ENGINEERING COLLEGE OLD STUDENTS’ ASSOCIATION (ECOSAK). Kakinada-3 (A.P.) was registered under Societies Act XXI of 1860 with Society No. 92 of 1970. The office headquarters of ECOSAK is in the premises of JNTUK Kakinada, A.P., India. The association has chapters in Hyderabad, Visakhapatnam, USA and many more places for the better connect of alumni with university. A separate webpage for alumni is created as <http://ecosak.org.in>. The mission of the Alumni Association is to foster a mutually beneficial relationship between the Institute and its alumni. Alumni meet is arranged on First Sunday of January every year. The alumni also lent a helping hand to the College for raising funds on the occasion of Golden Jubilee and Platinum Jubilee celebrations and constructed silver jubilee building, Golden jubilee (Swarnotsava Bhavan cost worth Rs.22 lakhs), Diamond jubilee Indoor stadium (worth Rs. 5.3 crores).
- Alumni also proposed to construct a platinum jubilee alumni centre with an estimated cost of 4 crores and fund rising has already been completed.
- 1979-83 alumni batch has contributed an auditorium in the campus with a project cost of Rs. 2.5 crores

Governance, Leadership and Management

The Vision, Mission, Goals and Objectives reflect the nature of Governance and decision making of the

University. The Governance of the institution is carried out with the support of statutory bodies constituted as per the state 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.

JNTUK has formulated a comprehensive and progressive two-decade strategic plan, in tune with its Vision and Mission, to become a leading teaching-cum-research Institute through a standard system of education, with more emphasis on fundamentals, after an exhaustive self-examination by all its stakeholders, including external experts from HEIs. Smooth functioning of any institution depends on the resolutions and minutes discussed in respective bodies/ cells/ committees. The University has constituted different cells and committees for the successful implementation of the resolutions. JNTUK provides welfare measures for the benefit of the faculty and the supporting staff. The IQAC directorate along with the Directorate of Academic Planning within the University monitors and reviews the Teaching-Learning process regularly. 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.

Institutional Values and Best Practices

An exclusive directorate “Directorate of Empowerment of Women and Grievances” was established by Jawaharlal Nehru Technological University Kakinada to empower and safeguard the rights of female fraternity of the University. Jawaharlal Nehru Technological University, Kakinada provides the following facilities for the safety and security of girl student.

1. Well-trained and vigilant women security guards stationed across the campus.
2. Security checkpoints at all campus entries and exits.
3. CC camera surveillance campus.
4. Extensive surveillance network with 24x7 monitored control rooms.
5. Rotational duty by all faculty members for discipline and security.

JNTUK supports two best practices as:

1. Conduct of University Examinations through electronic distribution of question papers by ensuring Confidentiality, Speed and Security among the number of students in JNTUK.

2. CONTRIBUTION TO SOCIETY THROUGH EXTENSION OR RESEARCH: INNOVATION AND INCUBATION CULTURE IN UNIVERSITY.

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 University	
Name	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
Address	Jawaharlal Nehru Technological University Kakinada, Kakinada, Andhra Pradesh
City	KAKINADA
State	Andhra Pradesh
Pin	533003
Website	www.jntuk.edu.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Vice Chancellor	G.v.r.prasada Raju	0884-2300888	9618533555	0884-2300900	registrar@jntuk.edu.in
IQAC / CIQA coordinator	N.balaji	0884-2300900	9502441555	0884-2300901	diqac@jntuk.edu.in

Nature of University	
Nature of University	State University

Type of University	
Type of University	Affiliating

Establishment Details	
Establishment Date of the University	20-08-2008
Status Prior to Establishment, If applicable	Other
Establishment Date	16-07-1946
Any Other, Please Specify	The College of Engineering Vizagpatnam at Cocanada

Recognition Details		
Date of Recognition as a University by UGC or Any Other National Agency :		
Under Section	Date	View Document
2f of UGC	20-07-2010	View Document
12B of UGC	20-07-2010	View Document

University with Potential for Excellence	
Is the University Recognised as a University with Potential for Excellence (UPE) by the UGC?	No

Location, Area and Activity of Campus							
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.	Programmes Offered	Date of Establishment	Date of Recognition by UGC/MHRD
Main campus	Jawahar Lal Nehru Technological University Kakinada, Kakinada, Andhra Pradesh	Urban	110	447825	Ph.D		
<i>Institutes</i>	<i>University College Of Engineering Kakinada</i>	<i>Urban</i>	<i>50</i>	<i>348395</i>	<i>B.Tech, M.Tech</i>	<i>16-07-1946</i>	<i>20-07-2010</i>
<i>Institutes</i>	<i>Institute Of Science And Technology, Kakinada</i>	<i>Urban</i>	<i>5</i>	<i>7272</i>	<i>B.Pharmacy, M.Tech, M.Pharmacy</i>	<i>17-06-2009</i>	<i>20-07-2010</i>
<i>Institutes</i>	<i>School Of Management Studies, Kakinada</i>	<i>Urban</i>	<i>2</i>	<i>1267</i>	<i>Master of Business Administration</i>	<i>17-06-2009</i>	<i>20-07-2010</i>

2.2 ACADEMIC INFORMATION

Affiliated Institutions to the University

Type of Colleges	Permanent	Temporary	Total
Business Administration/Commerce/Management/Finance	0	11	11
Engineering/Technology/Architecture/Design	50	98	148

Furnish the Details of Colleges of University

Type Of Colleges	Numbers
Constituent Colleges	2
Affiliated Colleges	159
Colleges Under 2(f)	54
Colleges Under 2(f) and 12B	35
NAAC Accredited Colleges	49
Colleges with Potential for Excellence(UGC)	0
Autonomous Colleges	28
Colleges with Postgraduate Departments	134
Colleges with Research Departments	9
University Recognized Research Institutes/Centers	102

Is the University Offering any Programmes Recognised by any Statutory Regulatory Authority (SRA)		: Yes						
<table border="1"> <thead> <tr> <th>SRA program</th> <th>Document</th> </tr> </thead> <tbody> <tr> <td>AICTE</td> <td>110021_7444_1_1659603468.pdf</td> </tr> <tr> <td>PCI</td> <td>110021_7444_6_1659589559.pdf</td> </tr> </tbody> </table>			SRA program	Document	AICTE	110021_7444_1_1659603468.pdf	PCI	110021_7444_6_1659589559.pdf
SRA program	Document							
AICTE	110021_7444_1_1659603468.pdf							
PCI	110021_7444_6_1659589559.pdf							

Details Of Teaching & Non-Teaching Staff Of University

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned	47				5				39			
Recruited	37	10	0	47	4	1	0	5	26	13	0	39
Yet to Recruit	0				0				0			
On Contract	2	0	0	2	0	0	0	0	41	27	0	68

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned				257
Recruited	85	17	0	102
Yet to Recruit				155
On Contract	0	0	0	0

Technical Staff				
	Male	Female	Others	Total
Sanctioned				67
Recruited	29	1	0	30
Yet to Recruit				37
On Contract	0	0	0	0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/ LLD/DM/M CH	0	0	0	0	0	0	0	0	0	0
Ph.D.	37	10	0	4	1	0	12	6	0	70
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	4	7	0	11
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/ LLD/DM/M CH	0	0	0	0	0	0	0	0	0	0
Ph.D.	2	0	0	0	0	0	18	6	0	26
M.Phil.	0	0	0	0	0	0	1	1	0	2
PG	0	0	0	0	0	0	32	20	0	52
UG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	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
UG	0	0	0	0	0	0	0	0	0	0

Distinguished Academicians Appointed As

	Male	Female	Others	Total
Emeritus Professor	0	0	0	0
Adjunct Professor	0	0	0	0
Visiting Professor	0	0	0	0

Chairs Instituted by the University

Sl.No	Name of the Department	Name of the Chair	Name of the Sponsor Organisation/Agency
1	School of Avionics	Programme Director	Cyient formerly Infotech

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

Programme		From the State Where University is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	892	0	16	0	908
	Female	553	0	4	0	557
	Others	0	0	0	0	0
PG	Male	661	0	0	0	661
	Female	327	0	0	0	327
	Others	0	0	0	0	0
Doctoral (Ph.D)	Male	145	0	0	0	145
	Female	72	0	0	0	72
	Others	0	0	0	0	0

Does the University offer any Integrated Programmes?	No
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Details of UGC Human Resource Development Centre, If applicable

Year of Establishment	Nil
Number of UGC Orientation Programmes	0
Number of UGC Refresher Course	0
Number of University's own Programmes	0
Total Number of Programmes Conducted (last five years)	0

Accreditation Details

Cycle Info	Accreditation	Grade	CGPA	Upload Peer Team Report
Cycle 1	Accreditation	B+	2.67	UCycle111527.pdf

2.3 EVALUATIVE REPORT OF THE DEPARTMENTS

Department Name	Upload Report
Avionics	View Document
Biotechnology	View Document
Civil Engineering	View Document
Computer Science Engineering	View Document
Electrical And Electronics Engineering	View Document
Electronics And Communication Engineering	View Document
Food Technology	View Document
Jntuk	View Document
Management Studies	View Document
Mechanical Engineering	View Document
Nano Technology	View Document
Petroleum And Petrochemical Engineering	View Document
Pharmaceutical Sciences And Technologies	View Document
Spatial Information Technology	View Document

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	Introducing multidisciplinary master's programs in Automation and Robotics (in ME), Artificial Intelligence(in CSE), Smart Electric Grid and Renewable Energy Engineering (in EEE), Mathematics and Data Science(in Maths), Health Care and Hospital Management in MBA) etc., Initiated the procedure for new MOUs with JNTUK in the Academic Year 2022-23. Negotiating to start International Integrated Mater's Programs in collaboration with: 1. Germany - Kempten University in Mechanical/Mechatronics/Robotics 2. USA - University of Northern IOWA in Electrical Engineering. JNTUK has signed an MoU with Regional cluster group of Universities for Godavari districts to encourage collaborative research among National Institute of Technology, Andhra Pradesh, Dr. Y.S.R. Horticulture University, Tadepalligudem and Adikavi Nannaya University, Rajahmundry.
2. Academic bank of credits (ABC):	Academic bank of credits: University is planning to

	submit credits for storage and validation by the ABC.
3. Skill development:	Skill development: JNTUK in collaboration with Andhra Pradesh State Skill Development Corporation(APSSDC) is offering skill courses through collaboration with industry like Siemens, Dassault Systems. JNTUK is providing training to its students by collaborating with INFOSYS, WIPRO, Toople etc. Industry experts are already included in Boards of studies of all programs of the University.
4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):	Appropriate integration of Indian Knowledge system: JNTUK is offering courses in Indian Knowledge System in academic regulations 2020 like: Essence of Indian Traditional Knowledge, Constitution of India, Value education, Ethics and Human Values.
5. Focus on Outcome based education (OBE):	Conducted a series of Summer Faculty Development Programme with eminent faculty drawn from premium institutions to assist faculty in in all the units of University and Affiliated Engineering colleges for improving their performance in important subjects to enhance basic concepts with exposure based on Outcome Based Education (OBE) in phased manner from 8 semesters of 4 Engineering Faculties (Civil, EEE, ECE, CSE) in 2019.
6. Distance education/online education:	Distance education/online education: University has established Digital Library. The University has identified NPTEL/SWAYAM for online courses. University is Providing credits to courses completed through SWAYAM and NPTEL. e-content development by the University faculty is in progress

Extended Profile

1 Program

1.1

Number of programs offered year-wise for last five years

2021-22	2020-21	2019-20	2018-19	2017-18
31	30	31	30	28
File Description		Document		
Institutional data in prescribed format		View Document		

1.2

Number of departments offering academic programmes

Response: 13

2 Students

2.1

Number of students year-wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
2670	2374	2660	2405	2385
File Description		Document		
Institutional data in prescribed format		View Document		

2.2

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

2021-22	2020-21	2019-20	2018-19	2017-18
777	697	639	738	609
File Description		Document		
Institutional data in prescribed format		View Document		

2.3**Number of students appeared in the University examination year-wise during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
2482	2354	2327	2355	1972
File Description		Document		
Institutional data in prescribed format		View Document		

2.4**Number of revaluation applications year-wise during the last 5 years**

2021-22	2020-21	2019-20	2018-19	2017-18
45	38	42	62	27

3 Teachers**3.1****Number of courses in all programs year-wise during last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
1523	1500	1371	1249	1216
File Description		Document		
Institutional data in prescribed format		View Document		

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

2021-22	2020-21	2019-20	2018-19	2017-18
161	163	156	153	146
File Description		Document		
Institutional data in prescribed format		View Document		

3.3

Number of sanctioned posts year-wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
161	163	156	153	146
File Description		Document		
Institutional data in prescribed format		View Document		

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

2021-22	2020-21	2019-20	2018-19	2017-18
22140	23890	23850	21910	22440
File Description		Document		
Institutional data in prescribed format		View Document		

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

2021-22	2020-21	2019-20	2018-19	2017-18
691	564	728	589	528
File Description		Document		
Institutional data in prescribed format		View Document		

4.3**Total number of classrooms and seminar halls****Response: 71****4.4****Total number of computers in the campus for academic purpose****Response: 601**

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

2021-22	2020-21	2019-20	2018-19	2017-18
2676.29441	2043.50621	2689.2339	3013.35465	3579.06783

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curriculum Design and Development

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

Response:

Since the inception of the JNTUK, the University has been in the forefront for the Curricula development and implementation as per the local, national, regional and global demand, aspirations of the stake holders and societal needs which are reviewed periodically for their continued suitability and effectiveness. The University is moving forward with mission of promoting excellence, access, inclusion and relevance in quality education in Science, Technology, Engineering and Management, namely

- Design an Industry relevant outcome based curriculum from time to time with a Global perspective
- Promoting quality education by embracing ICT delivery mechanism with continuous pedagogy through e-learning mechanism
- Spread across for industry collaborations with a focus to pre-training and placements for technology transfer to society
- Establishing centers of excellence to promote research and innovations in multidisciplinary areas to bring in patent culture and consultancy practices
- International Collaborations for student outreach.

The curriculum design and development are in tune with University Vision and Mission as given below:

- Curriculum design involves experts from Institutes of Higher learning, Research centers and Industry
- It aims at improving the employability of the students
- As per the global perspective Outcome based education(OBE) is achieved
- Choice based credit system is included and student has the flexibility to choose.
- Integration of Face to Face and distant learning mode using Information and Communication Technology (ICT) by including Massive Open Online Courses (MOOCs) in the curriculum.

Curriculum is based on learning objectives and course outcomes. At present, the university is following choice based curriculum across all programmes. The University is reviewing and revising the Curriculum for every three years by including advanced technologies, industry oriented courses, skill courses, internships, Cocurricular, extra-curricular activities, Indian Constitution, Human values and Ethics, that will result in all round development and personality of the students.

JNTUK has designed the Revised Regulation Curriculum2020 (R20) In tune with the National Education Policy (NEP-2020) to equip the students of constituent and affiliated engineering colleges of University with the required skills and make them industry ready. The students are also given the option of choosing between skill courses 3 offered by the respective college and a certificate course offered by industry, a

professional body, APSSDC or any other accredited body. Another major change brought in the curriculum is the introduction of B.Tech. with Honours or a B. Tech with a Minor. Open Elective subjects are being offered to students of all branches.

To suit to the local needs, the university is offering B.Tech in petrochemical and petroleum engineering and M. Tech in Petroleum Engineering and Pipeline Engineering.

To suit to the national needs, the university has introduced the programme of B. Tech in Food Engineering in the year 2020 and also M. Tech in Food Processing Technology since 2010-11 which are being run by the School of Food Technology.

The University has also established Nano Technology, Avionics and need based interdisciplinary programmes to suit to the global needs. The local industrial needs are taken into account from the feedback of various stakeholders of the University and industry relevant courses are included in the curriculum.

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

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

Response: 93.55

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

Response: 29

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

Response: 31

File Description	Document
Minutes of relevant Academic Council/BOS meeting	View Document
Institutional data in prescribed format	View Document
Details of Programme syllabus revision in last 5 years	View Document
Any additional information	View Document
Link for additional information	View Document

1.1.3 Average percentage of courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the last five years**Response:** 48.44

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

2021-22	2020-21	2019-20	2018-19	2017-18
850	789	703	524	493

File Description	Document
Programme/ Curriculum/ Syllabus of the courses	View Document
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

1.2 Academic Flexibility**1.2.1 Percentage of new courses introduced of the total number of courses across all programs offered during the last five years.****Response:** 32.89

1.2.1.1 How many new courses were introduced within the last five years.

Response: 466

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

Response: 1417

File Description	Document
Minutes of relevant Academic Council/BOS meeting	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

1.2.2 Percentage of Programmes in which Choice Based Credit System (CBCS) / elective course

system has been implemented (Data for the latest completed academic year).

Response: 100

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

Response: 31

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

Curriculum Enrichment is attained by designing core courses to improve employability through skill-oriented courses, communication skills and IT and logical reasoning skills. skill-oriented courses will be offered and students must register and pass the courses successfully. An exclusive Directorate named Empowerment of Women & Grievances in the university to promote gender sensitivity in the University and conduct diverse programmes to educate, sensitize female members, and produce harmonious atmosphere on the campus. The university offers value based education through Courses like Ethics, Universal Human Values, Environmental Sciences, Indian Constitution, Essence of Indian Traditional Knowledge etc., by including them in curriculum as mandatory courses.

The University conducts workshops regularly on IPR and Research Methodology. While conducting Board of Studies meeting, Feedback from students, faculty, alumni and experts from industry and Higher Learning institutes is taken in to consideration which will improve the quality of curriculum.

B.Tech (ECE) program curriculum analysis that shows the weightage of credits and the list of courses mentioned here as sample:

Components of the curriculum:

Course Component	Curriculum Content(% of total numberof credits of the program)	Total number ofcontact hour s	Total number ofcr
Basic Sciences	8.89	24	16

Engineering Sciences	15	40	27	
Humanities and Social Sciences	10.56	26	19	
Program Core	52.23	127	94	
Program Electives	05	12	09	
Open Electives	1.67	04	03	
Project(s)	5.56	--	10	
Internships/Seminars	1.12	03	02	
Any other(Please specify)	--	MC-05	--	
Total number of Credits			180	

Structure of the Curriculum – Crosscutting issues related courses

course code	Course Title	Lecture(L)	Tutorial(T)	Practical
EC1101	English – I	4		--
EC1107	English - Communication Skills Lab -1	--		3
EC121	English – II	4		--
EC125	Environmental Studies	4		--
EC128	English - Communication Skills Lab -2	--		3
EC226	Management Science	4		
EC319	Professional Ethics & Human Values		3	
EC329	IPR & Patents		2	
EC425	Seminar		3	

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

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

Response: 30

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

Response: 30

File Description	Document
Institutional data in prescribed format	View Document
Brochure or any other document relating to value added courses	View Document
Any additional information	View Document

1.3.3 Average Percentage of students enrolled in the courses under 1.3.2 above.

Response: 43.95

1.3.3.1 Number of students enrolled in value-added courses imparting transferable and life skills offered year-wise during the last five years.

2021-22	2020-21	2019-20	2018-19	2017-18
1190	124	2316	1962	31

1.3.4 Percentage of students undertaking field projects / research projects / internships (Data for the latest completed academic year).

Response: 42.28

1.3.4.1 Number of students undertaking field projects or research projects or internships.

Response: 1129

File Description	Document
List of Programmes and number of students undertaking field projects research projects/ / internships (Data Template)	View Document
Any additional information	View Document
Link for additional information	View Document

1.4 Feedback System

<p>1.4.1 Structured feedback for design and review of syllabus – semester-wise / year-wise is received from 1) Students, 2) Teachers, 3) Employers, 4) Alumni</p> <p>Response: A. All 4 of the above</p>	
File Description	Document
URL for stakeholder feedback report	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document
Action taken report of the University on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	View Document

<p>1.4.2 Feedback processes of the institution may be classified as follows:</p> <p>Response: A. Feedback collected, analysed and action taken and feedback available on website</p>	
File Description	Document
URL for feedback report	View Document
Institutional data in prescribed format	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Demand Ratio (Average of last five years)

Response: 27.2

2.1.1.1 Number of seats available year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
859	859	859	821	803

File Description

Document

Demand Ratio (Average of Last five years) based on Data Template upload the document

[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 (Excluding Supernumerary Seats)

Response: 77.41

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

2021-22	2020-21	2019-20	2018-19	2017-18
544	436	576	454	395

File Description

Document

Average percentage of seats filled against seats reserved (Data Template)

[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:

Jawaharlal Nehru Technological University Kakinada organizes Induction programmes for freshers at the institution level. Also the University has made a three-week induction program as mandatory for all first year UG students and shall be conducted as per AICTE/UGC/APSCE guidelines and incorporated in the academic regulations of 2020.

Access to engineering education in the Telugu states has dramatically increased in the past couple of decades. Government fees reimbursement schemes have also encouraged enrolment from those sections of society which hitherto has not entered engineering professions. This is a daunting challenge for both teachers and students to impart technical knowledge and skills to students who may not have had a very good grounding in STEM (Science-Technology-Engineering-Mathematics) disciplines and English Language.

In the induction programme, the student will get an opportunity to listen to the motivation lectures which highlight about personality development which is as much the need of the current set-up as the professional course demands. Also they will be given clear insight of various aspects of engineering education and the senior professors will dispel the myths around them with demonstration and participation from students. The students will be made to understand with etymology of masking, intelligence, knowledge and engineering. They will be shown how knowledge enhances itself by sharing it with others. For various aspects of engineering, the professors will offer a plan of study and practise and also emphasizes that drawing is the language of engineering and mathematics is the language of science, both first year subjects with notoriety for being difficult to pass. **The senior professors with all their experience will explain the students how one can master these subjects.**

Strategies adopted for the slow learners

- The institution identifies the slow learners by their performance in first internal examinations. Based on that performance remedial/preparatory classes will be conducted for slow learners.
- The institute, give emphasis on improving the performance of slow learners by providing remedial programmes which are conducted outside regular classes.
- Through a mentor-mentee system also all kinds of support are provided to the slow learners.

Strategies adopted for the advanced learners

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

- For advanced learners value added courses are suggested and offered.
- For advanced learners Minor or Honours are offered and students are perusing Minor/Honours or and MOOCS courses.
- Also, Advanced learners are given opportunities to be part of innovative projects at university innovation and incubation centres.
- The university organizes technical Festivals(Techfest), entrepreneurship awareness programme and innovative projects, technical competitions at departmental level.
- Advanced learners are encouraged to learn new technologies, develop projects, internships, training programs, competitions, National and International conference Paper Presentations

Special Support:

- The university supports all those students who belong to SC, ST, minorities, Kapu, differently-abled, and BC communities through Post matric scholarship Under Jnanabhumi Scholarship provided by the Andhra Pradesh State Government.
- Special encouragement is given for sports, cultural activities organized by NSS to inculcate leadership qualities and also to boost self confidence and team spirit.
- Every year the institute Conducts Campus Recruitment & Training (CRT) Classes, Company Specific Training (CST) Classes, Technical Programming Classes for all UG and PG Students for a Period of 10-12 Days.

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

2.2.2 Student - Full time teacher ratio (Data for the latest completed academic year)**Response:** 17:1

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:**

Flipped/Hybrid methods are adopted to enhance the practical learning of the students.

The students will be encouraged to enhance their experiential learning, participative learning and problem-solving methodologies by involving them in incubation and innovation centres of JNTUK. University provides an effective platform for students to develop latest skills, knowledge, attitude, values to shape their behaviour in the correct manner. All departments conduct innovative programs which stimulate the creative ability of students and provide them a platform to nurture their problem-solving skills and ensure participative learning. The institute organizes annual technical fests in each department in which students showcase their learning in the form of innovative projects. Also, students are motivated to participate in inter college as well as national level competitions. The institute focuses on the student-centric methods of enhancing lifelong learning skills of students. Faculty members make efforts in making the learning activity more interactive by adopting the below-mentioned student-centric methods.

1. Experiential Learning:

Each department conducts add-on programs to support students in their experiential learning. The institution imparts the following experiential learning practices to enhance creativity and cognitive levels of the students · Laboratory Sessions are conducted with content beyond syllabus experiments. For example, a UG Electrical and Electronics Engineering student is given opportunity to work with 420kV(peak) Impulse test kit. Summer Internship -Students get hands on training while working in the company. · Add-on Courses on latest technologies with NPTEL, Swayam etc. · **The institute has made Engineering Exploration Project- Design Thinking as mandatory in the first year for all the UG Engineering students in R19 Curriculum with an objective to learn about the Human-Centered Design methodology and understand their real-world applications. Also, Industrial Training / Skill Development Programmes / Research Project in higher learning institutes as mandatory for all the UG Engineering Students in seventh semester.** Project development on latest technologies by students where they showcase their working model in the technical fest. · Industrial Visits to engage them in experiential learning while visiting the organization. · Certification Courses (Value Added Courses) by the industries like siemens centre of excellence to develop their expertise ·

2. Participatory Learning:

In this type of learning, students participate in various activities such as seminar, group discussion, wall papers, projects, and the skill based add on courses. Students are encouraged to participate in activities where they can use their specialized technical or management skills, such as · Tech Fest – It is organized every year for engineering students where selected projects are displayed at the larger platform. Cultural program – This is organized every year for the students of the college to give a vent to their creativity. ·

Socially Relevant Project: The students are encouraged to explore socially relevant problems in and around, and expected take charge of their own learning, work together in teams towards the problem. The evaluation of socially relevant project involves submitting a survey report about the problem along with suitable working prototype for the solution.

Industrial Oriented Mini Project/Summer Internship : An **Industrial Oriented Mini Project/Summer Internship**, in collaboration with an industry of their specialization is mandatory for all the UG students after III year II semester examinations and pursue it during summer vacation.

File Description	Document
Upload any additional information	View Document
Link for Additional Information	View Document

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

Response:

Teachers use ICT enabled tools for effective teaching-learning process:

Today, it is essential for the students to learn and master the latest technologies in order to be corporate ready. As a consequence, teachers are combining technology with traditional mode of instruction to engage students in long term learning. University encourages Information and Communication Technology (ICT) in education to support, enhance, and optimize the delivery of education. The following tools are used by the Institute

ICT Tools:

1. Projectors- projectors are available in different classrooms/labs
2. Desktop and Laptops- Arranged at Computer Lab and Faculty cabins all over the campus.
3. Printers- They are installed at Labs, HOD Cabins and all prominent places.
4. Photocopier machines - Multifunction printers are available at all prominent places in the institute. There are four Photostat machines available in campus.
5. Scanners- Multifunction printers are available at all prominent places.
6. Seminar Rooms- Three seminar halls are equipped with all digital facilities. 7. Smart Board- One smart board is installed in the campus.
8. Auditorium- It is digitally equipped with mike, projector, cameras and computer system.
9. Online Classes through Zoom, Google Meet, Microsoft Team, Google Classroom
10. MOOC Platform (NPTEL, Coursera, SAP, Udemy, Edx etc)
12. Digital Library resources (DEL NET etc)

Use of ICT by Faculty

The faculty members used Google meet or Zoom to conduct tests and for lecture delivery. Also used many interactive methods for effective teaching such as PPT with animations, Video clippings, Use of online resources from NPTEL, Coursera, YouTube links, Simulation tools, Virtual labs, online assessment tools like mentimeter - Quizz.com, and various Cloud portals etc.

They are also equipped by digital library, online search engines and websites to prepare effective presentations.

To teach problem solving subjects in an online mode, faculty have used various online tools like-whiteboard in Microsoft teams, Jam board in Google meet, etc. Also used Pentab for live solving

problems.

Google classroom is used to manage and post course related information- learning material, quizzes, lab submissions and evaluations, assignments, etc.. This has made the teaching-learning process more effective and available at any point of the time for all the students.

All the departments conduct webinars, workshops and guest lectures on the new developments in the core subjects for effective teaching and learning by Industry experts and Alumni on Zoom platforms

File Description	Document
Upload any additional information	View Document
Provide link for webpage describing the " LMS/ Academic management system"	View Document

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

Response: 17:1

2.3.3.1 Number of mentors ?????????????? ???????

Response: 161

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

2.4 Teacher Profile and Quality

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

Response: 100

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	View Document
List of the faculty members authenticated by the Head of HEI	View Document
Any additional information	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’Lit. year-wise during the last five years

Response: 52.28

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

2021-22	2020-21	2019-20	2018-19	2017-18
92	87	80	79	70

File Description	Document
List of number of full time teachers with Ph D/D M/M Ch/D N B Superspeciality/DSc/D Lit and number of full time teachers for 5 years	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: 13.46

2.4.3.1 Total experience of full-time teachers

Response: 2167

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

2.4.4 Average percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government/Govt. recognised bodies during the last five years

Response: 16.69

2.4.4.1 Number of full time teachers receiving awards from state /national /international level from Government/Govt. recognized bodies year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
6	6	7	3	4

File Description	Document
Institutional data in prescribed format	View Document
e-copies of award letters (scanned or soft copy)	View Document
Any additional information	View Document

2.5 Evaluation Process and Reforms

2.5.1 Average number of days from the date of last semester-end/ year- end examination till the declaration of results year-wise during the last five years

Response: 10.22

2.5.1.1 Number of days from the date of last semester-end/ year- end examination till the declaration of results year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
7.6	7.2	12.5	13.5	10.3

File Description	Document
List of Programmes and date of last semester and date of declaration of results	View Document
Any additional information	View Document

2.5.2 Average percentage of student complaints/grievances about evaluation against total number appeared in the examinations during the last five years

Response: 0.39

2.5.2.1 Number of complaints/grievances about evaluation year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
4	17	8	7	8

File Description	Document
Number of complaints and total number of students appeared year wise	View Document

2.5.3 IT integration and reforms in the examination procedures and processes (continuous internal assessment and end-semester assessment) have brought in considerable improvement in examination management system of the institution

Response:

1. In house developed result processing software is adopted for evaluation.
2. Question paper pattern of the semester end exam is changed from R13 to R16, R16 to R19 (2019-20) Academic Year.
3. Recently suggested AICTE examination reforms on Outcome Based Education are being implemented

The University keeps its examination system open for modifications and thus strengthens it from time to time, ensuring the system fool proof and address the grievances of students, if any. The institutional reforms in all the activities of the examination system are kept at par with the reforms pushed by the AICTE for various engineering disciplines. The drivers for reforms in examination system of Indian engineering education taken up by the premier technical institutions have been incorporated into our examination system and they include OBE- frame work for assessment process, evaluation of higher order abilities and professional skills in different forms like MOOCs, internship experience and project works, Bloom's taxonomy for assessment design etc.

The following significant reforms were affected in the Examination system.

1. Quizzes /Project works and assignments are made part of evaluation.
2. Tools of information technology are utilized for most of the activities associated with the conduct of examinations, evaluation and declaration of results.
3. Continuous Internal Assessment (CIA) includes Mid examinations twice in a semester for each course, periodical assignments/tests/quizzes etc. to keep the students meaningfully engaged with the subject content throughout the semester.\

Reform(s)	Positive impact(s)
4 sets of question papers are maintained for each subject /course	Confidentiality in the question paper selection
Setting the question papers from all the units with internal choice and moderation of question papers.	1. Maintain standards and coverage of syllabus am units 2. Students are required to study all the units in a gi 3. Improve the course outcomes by Page 2 of 2 imp

	internal choice	
Preparation of detailed scheme of evaluation by internal subject / course experts	1. Uniformity in the evaluation among the evaluators 2. Fair judgment for the students	
Appointment of squad consisting of senior faculty members of institutions to monitor the semester end examinations	Strict vigilance for smooth conduct of examinations	
Establishment of CCTV Surveillance System	1. Continuous monitoring of activities of examination and spot evaluation process 2. Restricted entry and surveillance of the entrance of unauthorized persons into the examination section 3. CCTVs in the vicinity of the examination room to detect untoward incidents of malpractice	
Encoding and decoding of answer booklets	Provides confidentiality and unbiased evaluation.	
Automation of examination management system	1. Improvement in reliability, efficiency, transparency, confidentiality and accuracy in the process 2. Software developed by the institute provides flexibility to incorporate autonomous curriculum requirements	
Personal verification and revaluation system	Accountability of the evaluation process and improved transparency in the evaluation	
Advance Supplementary examinations and timely publication of results & issuing necessary certificates in time.	Provides more scope to final year students for placements and higher studies	
Inclusion of security features in grade sheets as well as in answer booklets	Chances of manipulations are nullified.	

File Description	Document
Year wise number of applications, students and revaluation cases	View Document
Any additional information	View Document
Link for additional information	View Document

2.5.4 Status of automation of Examination division along with approved Examination Manual

Response: 100% automation of entire division & implementation of Examination Management System (EMS)

File Description	Document
Current manual of examination automation system and Annual reports of examination including the present status of automation	View Document
Current Manual of examination automation system	View Document
Any additional information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1 The institution has stated learning outcomes (generic and programme specific)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents

Response:

The University has clearly stated learning outcomes of the Programs and Courses. The following mechanism is followed to communicate the learning outcomes to the teachers and students.

1. Copy of the Syllabi is available in the department for ready reference for students and Faculty.
2. Learning Outcomes of the Programs and Courses are discussed with students at the end of each topic of the study by the faculty leading to which technical applications.
3. The learning outcomes are stated using Blooms Taxonomy and expressed in the lesson plan that clearly describe the knowledge skills and competency expected from the students to acquire as a result of completing their programme of study
4. The PO, PSO and CO's are incorporated in the curriculum for display on University website which can be accessed by all the stakeholders namely Faculty, Students, Industry and Alumni.
5. Soft Copy of Curriculum and Learning Outcomes of Programs and Courses are also uploaded to the Institution/university website for reference
6. The importance of the learning outcomes has been communicated to the teachers in every IQAC Meeting and Institution Committee Meeting.
7. The students are also made aware of the same through Tutorial Meetings.

All programs - Course outcomes and Program Outcomes are attached as URLs.

File Description	Document
Upload COs for all courses (exemplars from Glossary)	View Document
Paste link for Additional Information	View Document

2.6.2 Attainment of Programme outcomes, Programme specific outcomes and course outcomes are evaluated by the institution

Response:

JNTUK values the assessment of teaching and learning activities which is validated through distinct mechanisms. It follows two different strategies to validate Outcome Based Education through direct and indirect methods.

In the first stage, Course Outcomes (COs) are mapped with the respective Programme Outcomes (POs) and Programme Specific Outcomes (PSOs). The mean value of mapping indicates how COs are related with POs and PSOs.

In the second stage, the Course Outcomes with Programme Outcomes and Programme Specific Outcomes are validated through examination system. The course outcomes reflect different cognitive levels of each course. It is done on the basis of Revised Bloom's Taxonomy. The students' ability to remember and understand are tested through Multiple Choice Questions, Short Answer Questions, Quiz, Snap Test and Oral Test, whereas their ability to apply, analyse, evaluate and create are assessed through Essay Type Questions, Assignments, Practical Examinations, Field Report, Internship and Project Works.

In the third stage, the University assesses the direct attainment of each Course Outcome (CO) with Programme Outcomes (PO) and Programme Specific Outcomes (PSOs).

CO, PO attainments submitted to NBA were attached as sample for B.Tech(CSE) and B.Tech(EEE) programs.

The gaps in the curriculum will be addressed in the curriculum design process as shown in Figure 1.

In addition to this departments have established Program Assessment and Quality Improvement Committee (PAQIC) to assess to assess and improve the quality of the curriculum.

The Program Assessment and Quality Improvement Committee considers the PO and PSO attainments for the courses to improve the curriculum

The PAQIC compares the attained levels of POs and PSOs with the target levels of each course in the curriculum.

If the desired target were met by the course then it suggests the improvement in the target

If the desired target didn't meet by the course then PAQIC reviews the course delivery methods, syllabus, assessment method, Curriculum to propose the changes

The above process continues until PAQIC is satisfied with the Program curriculum.

Figure 2 illustrates the role of PAQIC in improving the curriculum to meet the target POs and PSOs then these changes will be discussed in BoS as mention in Figure 1.

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

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

Response:

92.54

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

Response: 744

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

Response: 804

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

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.44

File Description	Document
Upload database of all currently enrolled students	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Promotion of Research and Facilities

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

Response:

The University provides all necessary infrastructural facilities and a conducive environment to promote research activity in the University. At JNTUK, research is promoted at department levels through curriculum based undergraduate, postgraduate research projects and internship projects. An exclusive directorate for Research and development is being functional from the year 2008. The Directorate of Research and Development is established to promote research activities of JNTU Kakinada, to obtain the funds from UGC, DST, AICTE and other Government organizations/Research organizations/ Autonomous organizations, and to encourage the sponsored research activity by interaction with Industries / Premier educational and Research institutes / organizations. The directorate also monitors and administers the research programs of Ph.D offered by the University in various disciplines.

The University is providing the support for research projects through Rashtriya Uchchar Shiksha Abhiyan (RUSA) Project.

To encourage research culture in the University, all the Internal Regular Faculty or Assistant Professors (contract) of JNTUK, whose services are continued in JNTUK and its constituent colleges until completion of their Ph.D, a nominal tuition fee amount of Rs.5,000 per year is being collected.

JNTUK offers Doctoral programmes in eleven disciplines. The university has recognized a few Research centres in the affiliated colleges for conducting Ph.D programmes.

To enhance the Quality of Research the following quality initiatives are being followed

- A Common Research Admissions Test (RCET) has been conducted for admission into various research programs of all the Universities of the State.
- Admissions will be made by the Directorate of Admissions and final selection to research programs will be intimated to the candidates.
- List of qualified candidates (discipline wise) has been shared to the University by the Convener (RCET).
- All the qualified candidates opted JNTUK, Kakinada shall be called for interview.
- Candidates shall be admitted in the Ph.D programme based on merit in written test and interview.
- Candidates who have qualified in the UGC/CSIR/NET/SLET examinations are exempted from appearing the written test.
- However, they have to attend the interview.
- All the research scholars registered must clear Research Methodology subject which could also cover areas such as Quantitative methods, computer applications, research ethics and review of published research in the relevant field, training, field work, etc. for 100 marks.
- Ethics in conducting research and Anti-Plagiarism checks are given importance.
- Minimum two research publications for Ph.D. are mandatory.
- They should be in Science Citation Index Journals or journals having impact factor from

Thomson Reuters are mandatory from the research contributed.

- Otherwise, the publications should be in the list of journals specified in the list given in UGC website and other journals suggested by respective Board of Studies.
- Panel of Examiners for Ph.D. thesis may be recommended by the Supervisor & CoSupervisor in a sealed cover.
- Minimum 9 Examiners have to be recommended by the Supervisor and Co-Supervisor.
- Names of 3 Examiners will be recommended either by Chairman, BOS or Nominee by Hon'ble Vice-Chancellor.
- Out of them, three Examiners are from reputed premier institutes, viz., IITs?/IIMs?/IISc/ISI, Kolkata, etc., three Examiners are from NITs?/ Central Universities, etc., three Examiners are from State Universities (Including other state universities and National Research Centers).

File Description	Document
URL of Policy document on promotion of research uploaded on website	View Document

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

Response: 8.16

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

2021-22	2020-21	2019-20	2018-19	2017-18
10.315	6.005	19.39622	2.39	2.6725

File Description	Document
Minutes of the relevant bodies of the University	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

3.1.3 Percentage of teachers receiving national / international fellowship / financial support by various agencies for advanced studies / research during the last five years.

Response: 2.18

3.1.3.1 The number of teachers who received national / international fellowship / financial support by various agencies for advanced studies / research year-wise during the last five years.

2021-22	2020-21	2019-20	2018-19	2017-18
2	2	3	5	5

File Description	Document
Institutional data in prescribed format	View Document
e-copies of the award letters of the teachers	View Document
Any additional information	View Document

3.1.4 Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other research fellows enrolled in the institution during the last five years.

Response: 2446

3.1.4.1 The Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other research fellows enrolled in the institution year-wise during the last five years.

2021-22	2020-21	2019-20	2018-19	2017-18
709	562	647	364	164

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

3.1.5 Institution has the following facilities to support research

1. Central Instrumentation Centre
2. Animal House/Green House
3. Museum
4. Media laboratory/Studios
5. Business Lab
6. Research/Statistical Databases
7. Mootcourt
8. Theatre
9. Art Gallery
10. Any other facility to support research

Response: A. 4 or more of the above

File Description	Document
Upload the list of facilities provided by the university and their year of establishment	View Document
Upload any additional information	View Document
Paste link of videos and geotagged photographs	View Document

3.1.6 Percentage of departments with UGC-SAP, CAS, DST-FIST, DBT, ICSSR and other recognitions by national and international agencies (Data for the latest completed academic year)

Response: 46.15

3.1.6.1 The Number of departments with UGC-SAP, CAS, DST-FIST, DBT, ICSSR and other similar recognitions by national and international agencies.

Response: 6

File Description	Document
Institutional data in prescribed format	View Document
e-version of departmental recognition award letters	View Document
Any additional information	View Document

3.2 Resource Mobilization for Research

3.2.1 Extramural funding for Research (Grants sponsored by the non-government sources such as industry, corporate houses, international bodies for research projects) endowments, Chairs in the University during the last five years (INR in Lakhs).

Response: 287.08

3.2.1.1 Total Grants for research projects sponsored by the non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year-wise during the last five years (INR in Lakhs).

2021-22	2020-21	2019-20	2018-19	2017-18
51.55	57.635	60.936	60.936	56.021

File Description	Document
Institutional data in prescribed format	View Document
e-copies of the grant award letters for research projects sponsored by non-government	View Document
Any additional information	View Document

3.2.2 Grants for research projects sponsored by the government agencies during the last five years (INR in Lakhs).

Response: 879.44

3.2.2.1 Total Grants for research projects sponsored by the government agencies year-wise during the last five years (INR in Lakhs).

2021-22	2020-21	2019-20	2018-19	2017-18
150	4.8	69.067	200	455.57279

File Description	Document
Institutional data in prescribed format	View Document
e-copies of the grant award letters for research projects sponsored by government	View Document
Any additional information	View Document

3.2.3 Number of research projects per teacher funded by government and non-government agencies during the last five years

Response: 0.49

3.2.3.1 Number of research projects funded by government and non-government agencies during the last five years.

Response: 16

3.2.3.2 Number of full time teachers worked in the institution year-wise during the last five years..

Response: 163

File Description	Document
Supporting document from Funding Agency	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document
Paste Link for the funding agency website	View Document

3.3 Innovation Ecosystem

3.3.1 Institution has created an eco system for innovations including Incubation centre and other initiatives for creation and transfer of knowledge.

Response:

The Jawaharlal Nehru Technological University has established an exclusive Directorate “Directorate of Incubation & IPR” with the following Roles and responsibilities.

- In order to make the students of Andhra Pradesh as global citizens and to enhance their quality of life and employability by providing them exposure in cutting edge technologies such as data Analytics, mobility, Artificial Intelligence (AI), Machine learning (ML) and cloud.
- JNTUK incubation centre is working towards this goal by establishing a digital centre of excellence in collaboration with Wipro Ltd., Tetrasoft USA, TOOOPLE Singapore, Missouri state university and Chicago state university of USA.

The following Activities are performed by Directorate of Incubation & IPR during the Year 2020-21

- Organized a 17 Days Online Workshop in association with EXCELR on “Applications of Data Science for Industrial Problems through Python” during 10th August 2020 to 28th August 2020. The session was delivered by Industry experts.
- A prototype for clustering the crime data for predictive analysis is done for Andhra Pradesh State Government Police and tested on road accidents data for East Godavari district. It needs further enhancement and to be tested for different crimes.
- Organized a 20 Days Workshop in association with EXCELR on “Effective Solutions for Industrial Problems using Spark and Azure”.
- Worked with Kakinada Smart City and East Godavari Police and developed a program for real time traffic management. This software estimates traffic load from CC TV camera images.
- The project titled “Establishing a Blockchain-based Financial Information Sharing Ecosystem with Intelligent Automation” submitted in collaboration with University of Missouri and Tetrasoft Ltd., as industry partner was award US \$44,862 by US Government under “Partnership 2020” grant.
- Established a 9 node, 8TB Hadoop cluster with the Technical support from Tetrasoft Inc. USA, (incubation centre partner)
- Working on modalities to start joint MS Computer Science Program in collaboration with Chicago State University, USA. The syllabus is finalized. The courses will be handled in collaboration with industry. The courses are practical oriented and project driven with 4hours theory and 10 hours lab sessions per week. Currently working on the modalities.

- Organized a 40-hour free training to the students on Full Stack technologies (Anular JS, Node JS) by TOOOPLE Ltd., (Incubation Centre Partner).
- Developed a Covid Patient Tracking System for Kakinada Municipal Corporation. The training on Full Stack Technologies helped the students for the front end development.
- Developing Project Monitoring Dash board for Kakinada Municipal Corporation. The training on Full Stack Technologies is helpful to the students for the front end development.
- Agriculture Adverse Board Management Systems development for District Collector East Godavari.
- **University has an exclusive Design Innovation Centre.**
Design Innovation Centre was granted by MHRD under the scheme “National Initiative for Deign Innovation” to facilitate design-focused research.
- **JNTUK is among the top 20 institutes across India to get this project.**
- **The project has the funding of Rs.10 crores and upto March, 2020.**
There are 3 collaborators for the project i) Acharya Nagarjuna University, Guntur ii) IIIT, Nuzivid iii) IIIT, RK Valley

3.3.2 Number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development during the last five years.

Response: 51

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

2021-22	2020-21	2019-20	2018-19	2017-18
0	4	14	15	18

File Description	Document
Report of the event	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

3.3.3 Number of awards / recognitions received for research/innovations by the institution / teachers / research scholars / students during the last five years.

Response: 25

3.3.3.1 Total number of awards / recognitions received for *research* / innovations won by institution / teachers / research scholars / students year-wise during the last five years.

2021-22	2020-21	2019-20	2018-19	2017-18
6	3	5	9	2

File Description	Document
Institutional data in prescribed format	View Document
e- copies of award letters	View Document
Any additional information	View Document

3.4 Research Publications and Awards

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

Response: A. All of the above

File Description	Document
Code of ethics for Research document, Research Advisory committee and ethics committee constitution and list of members on these committees, software used for Plagiarism check, link to Website	View Document

3.4.2 The institution provides incentives to teachers who receive state, national and international recognitions/awards 1. Commendation and monetary incentive at a University function 2. Commendation and medal at a University function 3. Certificate of honor 4. Announcement in the Newsletter / website

Response: A.. All of the above

File Description	Document
Institutional data in prescribed format	View Document
e- copies of the letters of awards	View Document
Any additional information	View Document

3.4.3 Number of Patents published / awarded during the last five years.

Response: 24

3.4.3.1 Total number of Patents published / awarded year-wise during the last five years.

2021-22	2020-21	2019-20	2018-19	2017-18
7	6	5	3	3

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

3.4.4 Number of Ph.D's awarded per teacher during the last five years.**Response:** 5.31**3.4.4.1 How many Ph.D's are awarded within last five years.**

Response: 223

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

Response: 42

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document
URL to the research page on HEI web site	View Document

3.4.5 Number of research papers per teachers in the Journals notified on UGC website during the last five years**Response:** 2.79**3.4.5.1 Number of research papers in the Journals notified on UGC website during the last five years.**

2021-22	2020-21	2019-20	2018-19	2017-18
142	55	71	90	77

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

3.4.6 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: 2.57

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

2021-22	2020-21	2019-20	2018-19	2017-18
90	65	62	71	112

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

3.4.7 E-content is developed by teachers :

1. For e-PG-Pathshala
2. For CEC (Under Graduate)
3. For SWAYAM
4. For other MOOCs platform
5. Any other Government Initiatives
6. For Institutional LMS

Response: C. Any 3 of the above

File Description	Document
Institutional data in prescribed format	View Document
Give links or upload document of e-content developed	View Document
Any additional information	View Document

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

Response: 3.43

File Description	Document
Bibliometrics of the publications during the last five years	View Document

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

Response: 25.5

File Description	Document
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View Document

3.5 Consultancy

3.5.1 Institution has a policy on consultancy including revenue sharing between the institution and the individual and encourages its faculty to undertake consultancy.

Response:

EXPENDITURE NORMS

15.1 Job work

The Project Coordinator may get specific job work done on payment from outside. However, such payment may not exceed 5% of the total amount

contracted for the project. | While making such expenditure all the rules/regulations as applicable to Consultancy Projects should be followed. For higher expenditure prior permission of Principal/Director will be necessary.

15.2 Student Assistants

The Director/Principal may engage University/College/Units Students as Student Assistants for consultancy and testing work on payment of Rs.50/- per hour

subject to a maximum of Rs.200/- per day.

15.3 Hospitality

Expenses incurred on reasonable hospitality in connection with the consultation

work can be charged as expenses out of the fee received subject to the condition that the total expenditure on this account should not exceed 5% of gross fees contracted for the project. For larger expenditure

approval of Director/Principal of the concerned Units will be necessary.

15.4 T.A. & DA. 'TA & DA should be as per University norms and should be met from consultancy fee.

15.6 Consultants

15.6.1. Normally provision for involving experts from outside the Institute as consultants, if necessary, will be made at the time of acceptance / approval of the project.

15.6.2. An amount upto Rs.25,000/- or 10% of the Consultancy fee whichever is lower, can be paid to Consultant(s) after obtaining approval from the Director/Principal of the Units concerned.

15.6.3. For payment over Rs.25,000 and upto Rs.50,000 or 15% of the total fees, whichever is lower, approval of a committee set up for this purpose by the Director under the Chairmanship of Registrar would be required.

15.6.4. For payments over Rs.50,000 or over 15% of the Consultancy fee, the Vice-Chancellor may approve payments on the recommendation of the Committee constituted by the Registrar/Principal/Director of the Unit.

15.6.5, Payment exceeding 20% of the total Consultancy fee shall not normally be allowed to consultant(s).

16. Payment of Consultancy Honorarium

The rules for payment of consultancy honorarium will be as follows:

Actual expenditure on the project is to be deducted first. From the remaining the rate of honorarium for the project staff will be as follows:

For jobs other than the Laboratory tests :

(1) Up to Rs.50,000/- - 65%

(ii) More than Rs.50,000/- - 32,500 + 40% of excess over Rs.50,000/-

or Laboratory Tests - 40%

'The remaining amount will go to University/College/Units consultancy accounts.

' For BICARD after deducting the expenditure on the project the 1/3 of the remaining

amount will be further deducted and the balance will be treated for honorarium purpose.

'1. The total amount of honorarium for any employees during a financial year will be limited to the maximum of one year gross salary of that employee during that financial year.

5. Out of the honorarium to be paid to the project staff, the following will be the distribution norm

Principal/Director of the Unit - 7 1/2 %

Head of Department - 7 1/2 %

Project team (including teaching & Non-teaching *) - 75%

Ministerial staff & others * * - 10%

* Wherever applicable

** Connected with the project

File Description	Document
Upload soft copy of the Consultancy Policy	View Document
Paste URL of the consultancy policy document	View Document

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

Response: 369.15

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

2021-22	2020-21	2019-20	2018-19	2017-18
56.50374	68.20151	68.19853	86.28026	89.96711

File Description	Document
Institutional data in prescribed format	View Document
Audited statements of accounts indicating the revenue generated through consultancy	View Document
Any additional information	View Document

3.6 Extension Activities

3.6.1 Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years.

Response:

In sensitizing our students pertaining to social issues through the curriculum and extension activities. By organising blood donation camps, education awareness programmes, gender equality awareness activities and visits to slums in vicinity to create awareness among the dwellers. Different departments undertake social outreach activities which are meant for helping society and training students to shoulder all responsibilities with ease and impact.

The NSS Cell, Department of Social Work and other Departments in collaboration with different agencies, trusts, NGOs, hospitals etc like Red Cross Society and so. Lead extension activities to address local issues and sensitize students for their holistic development. To address the issues of domestic violence, child marriages, health care, HIV/Aids, street children, runaway children, alcohol addiction and drug addiction, etc. the students and teachers have collaborated through their departments with other agencies to help society and local communities.

The NSS Cell works to develop the overall personality of students through a series of regular activities which are undertaken both within the Campus and outside it in the form of special camps. The motto of the Cell is *Not Me but You*. It invites volunteers for all-round personality development through community service, group interactions, awareness generation programme, group training and leadership training programmes. The Cell has been very vibrant and active with three units. It conducts regular weekly meeting of volunteers to discuss the plan of action. Students' orientation to community service, blood donation camps, awareness, and sensitization in and outside Campus.

There is a huge disparity with respect to prosperity and deprivation among the village population. There is high struggle for livelihood and adverse effects on the education of the children. The large concentration of marginalized groups, their acute deprivation and pathetic educational scenario are key factors for the adoption of this Gram Panchayat. The Cell has been coordinating with Sarpanch, Panchayat Committees, teachers, schools, Anganwadis for planning education, health, and sanitation interventions.

**JAWAHARLAL NEHRU TECHNOLOGICAL
UNIVERSITY KAKINADA.**

Events organized – NSS UNIT

2017-18

S.NO	NAME OF THE EVENT	DATE	NAME OF THE OCCASION	NO OF PARTICIPANTS
1	Awareness rally on open defecation free toilets	03-01-2018	NSS event	440
2	SHE TEAM	10-03-2018	NSS event	200
3	3 Day training program on Disaster management & first aid	22-03-2018 to 24-03-2018	Red cross society	333

2018-19

1	Van Mahotsav	17-12-2018	Planting and protecting the samplings	193
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2019-20

1	Blood Donation Camp	17-08-2019	NSS event	570
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2020-21

1	SWATCHH BHARAT	25-08-2020	cleanliness	440
2	Food Distribution to Orphanage Home	23-04-2021	Food Distribution	25

2021-22

1	Plantation, awareness on nutrition food for school children	25-04-2022	NSS event	40
2	Swatch Bharat, Awareness on higher education, govt Kakinada	26-04-2022	NSS event	98
3	Food distribution to old age home	27-04-2022	NSS event	30
4	Awareness Rally on Plastic Free Environment	29-04-2022	NSS event	96
5	Awareness on nutrition of food and higher education	25-03-2022	NSS event	25

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

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

Response: 22

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

2021-22	2020-21	2019-20	2018-19	2017-18
5	4	3	3	7

File Description	Document
Institutional data in prescribed format	View Document
e-copy of the award letters	View Document

3.6.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years

Response: 59

3.6.3.1 Number of extension and outreach programs conducted by the institution those through NSS/NCC, Government and Government recognised bodies during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
16	12	13	11	7

File Description	Document
Reports of the event organized	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

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

Response: 49.74

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

2021-22	2020-21	2019-20	2018-19	2017-18
1629	1320	1331	1011	954

File Description	Document
Report of the event	View Document
Institutional data in prescribed format	View Document

3.7 Collaboration

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

Response: 34.6

3.7.1.1 Total number of Collaborative activities with other institutions / research establishment / industry for research and academic development of faculty and students year-wise during the last five years.

2021-22	2020-21	2019-20	2018-19	2017-18
40	46	33	29	25

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

3.7.2 Number of functional MoUs with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.

Response: 45

3.7.2.1 Number of functional MoUs with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research year-wise during the last five years.

2021-22	2020-21	2019-20	2018-19	2017-18
13	13	2	8	9

File Description	Document
Institutional data in prescribed format	View Document
e-copies of the MoUs with institution/ industry	View Document
Any additional information	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The institution has adequate facilities for teaching - learning. viz., classrooms, laboratories, computing equipment, etc.

Response:

The University has provided adequate physical and updated academic facilities as per the requirement of the university and the need of the students. The specific location of the college provides pollution free and natural environment. The total built up area is 728945.35 sq.mts. There are various Departments having spacious class-rooms with proper infrastructure in the college.

JNTUK is the first technological university in the entire east Godavari district with excellent academic facilities to impart effective learning among the students set in pollution free and natural environment with a build-up area of 728945 sq. metres. . JNTUK has B.Tech, M.Tech in the streams of CSE, ECE, EEE, Mechanical, Chemical and Petrochemical Engineering along with directorates in School of Management Studies, Pharmacy, Food Technology, Bio – Tech, Nano technology, and Avionics. JNTUK has 71 spacious classrooms of which 57 have LCD projectors and screens and are ICT Class rooms where the remaining 14 are classrooms with black boards and for interactive sessions. These classrooms are generally used for subjects which are quantitative and student interactive. The university holds physics and chemistry labs for experiments along with the soft skills labs for the first year students. The JNTUK being technological university has state of the art technology labs with high configuration systems and qualified teaching faculty. There are six hundred and one computer system exclusively for students of different departments enabling them to be techno – savvy and to match with the industry requirements. The students of JNTUK take up various courses to match with their course structure and their career requirement. The computers are provided with the needed software as per the student requirements.

The IT labs for School of Management Studies are – IT LAB for Excel, Tally and R-programming along with Business Communication and Soft Skills Lab

Pharmacy labs – pharmacology, pharmacognosy, medicinal chemistry, organic chemistry, pharmaceutical analysis and pharmaceuticals.

Engineering students have IT labs for Excel, Data analytics, C, C++, Java, SQL, AI etc.,

The students of JNTUK take up various courses to match with their course structure and their career requirement. The computers are installed with the needed software as per the student requirements and the laboratories keep on changing their courses with the changing needs of the industry.

The classrooms have proper ventilation and maintained in a harmonious environment enabling effective learning for the students. The faculty have access to the e- resources to keep up with the changing trends and design appropriate teaching pedagogies that match the student requirements. The faculty are available in the staff room to clarify any doubts. The students are encouraged to prepare for competitive exams through peer group learning and guided by staff on demand. The IT laboratories are also instrumental in providing online learning and taking online tests for companies like TCS and Wipro.

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

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

Response:

JNTUK has a separate directorate for games and sports emphasising its focus and promotion of sports and games. JNTUK is also promotes sports through its Constituent /Affiliated Colleges, Institutes, and Schools. The students are participating in various events and games inside and outside the college and are bringing laurels to our university.

JNTUK has adequate facilities for cultural activities an alumni auditorium in 500 sq. Metres with a seating capacity of 500 + with dual projectors, and audio – visual system. JNTUK also has an open-air auditorium with facilities of audio systems to cater to the needs of huge gatherings during university cultural festivals or inter college meets. All the departments in the JNTUK have individual seminar halls are used for cultural activities with the consent of the head of the department.

The yoga centre is there with the campus in the building that holds SBI bank and the faculty and students who are interested in the yoga will attend the yoga classes held in the morning and evening not disturbing the academics.

The total area of sports and games fields is 30 acres. JNTUK has a large playground with provisions for multiple sports such as Athletics - 10 Lane 400 Meters standard Gravel Track with permanent throwing sectors and Long jump / Triple jump pits, Cricket- Cricket Nets and Cricket ground and football ground and nets, Hockey, Volleyball, Basketball, Throw Ball, Kho-Kho and Kabaddi Court. Another field provides Lawn Tennis courts; Outdoor badminton courts and a gymnasium are available.

To provide all these sports facilities the university have a multi – purpose Modern indoor stadium which holds table tennis facilities, indoor badminton courts, tennikoit, Caroms and Chess facilities. Dormitory facility is there for accommodating the sports persons who attend various games and sports activities.

The modern gymnasium is there for all the three categories of exercises namely cardio exercises, strength exercises and free hand exercises. Sports equipment as well as fitness related equipment are available to the students. Gym facilities are available for students and faculty. Carom board, Badminton, Volleyball, Handball, Tennis ball, Basketball, Football or any other sports equipment issued to the students by depositing their student ID whenever they got free time in their schedule. Teachers can also issue these sports equipment by signing the Department Issue Register. Yoga, Aerobics and Taekwondo related facilities provided to NSO students. Department of Physical Education maintains the record of NSO classes and their attendance.

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

4.1.3 Availability of general campus facilities and overall ambience

Response:

JNTUK has adequate facilities for Availability of general campus facilities and overall ambience. General Facilities available in JNTUK are State Bank of India, SBI ATM, Park, Canteen, Dispensary, Post office, Yoga Room, Play Ground, Auditorium. Facility like State Bank of India help the students in payment of college fee, Exam Fee, Scholarship money etc., SBI ATM is available in college for easy access & withdrawal of money. Facility like Park are for refreshment purpose that helps to improve and promote physically activities for individual, and community health. Facilities like Canteen available for the serving nutritious and hygienic food to the students and staff. A well Equipped separate medical dispensary facility is available for students and staff. The College provides healthcare facilities to the students whenever required. FIRST AID KITS are available in the hostels and in the respective departments for free of cost. All Sick Rooms are well ventilated and adequately furnished such that the students who happen to fall sick or those that require taking the little span of rest for certain specific reasons can do so. In cases of medical requirements, members of faculty in the vicinity attend to the students for arranging medical facility. A Branch Post office is functioning inside the campus, for the benefit of staff and students. It has the capacity to cater to the large number of inward and outward mails on a daily basis. You can avail postal services like Money Orders, Postal Orders, Postage, etc here. Yoga promotes physical strength because Students learn to use all of their muscles in new ways. Whether a pose is done standing, sitting, or lying down, each one can challenge various muscle in the body that helps an individual become aware of his body and how it efficiently functions. There is an auditorium with an area of about 500 sq.meters. attached with an open air theatre for organizing the functions for a gathering of 500. A 60-seated bus is available and used for educational tours and technical visits.

JNTUK with its compulsory Core Courses and the continuous evaluation scheme that integrates sports and extra-curricular activities as essential components. This is done not only to encourage student participation but also for the assessment of students. The concept healthy mind in a healthy body inspires the university to develop adequate facilities for sports, games and cultural activities. The total area of sports and games fields is 30 acres.

Major cultural events are organized at the majestic Auditorium Hall and also at Senate Hall. The workshops and seminars are conducted in the senate halls and seminar halls of the respective departments. All the girls and boys hostels also have recreation rooms which facilitates students to watch television and to play indoor games and spend some quality time with the roommates and other students.

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

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

Response: 29.78

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

2021-22	2020-21	2019-20	2018-19	2017-18
1114.33793	241.92698	256.48749	1172.87771	1680.59739

File Description	Document
Upload audited utilization statements	View Document
Upload any additional information	View Document
Institutional data in prescribed format	View Document

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS) and has digitisation facility

Response:

The Central Library, established in 26th October 2015, is a proud partner in the institute's march towards its vision and playing a vital role in acquisition, organization, and dissemination of knowledge. Library has a large collection of books catering to various branches of Engineering, Technology, Science and Humanities and its related fields. The library with its CCTV Security systems is well provided with good monitoring and surveillance.

The central Library recently named as Dr. B.R. Ambedkar central library are using campus management like **Bees campus soft** from 2010 onwards to integrate the central library management system and enabling ILMS for central library, JNTUK. Bees Campus soft is useful in digitalizing the campus activities. The software helps in synergizing the design, implementation and running process automation of the library in a simple and accurate way. Bee soft accelerates the day – to – day activities of the library and faster integration and stabilization of issuing and books receivables, masters and records. Latest technologies were adopted to attain cost effectiveness. OPAC (Online Public Access Catalogue) was used effectively to

monitor the issues and receivables of library books and also stock verification. The OPAC is also helpful for Research scholars to verify the previous thesis and to have a easy access to these thesis. The OPAC also helps students who are preparing for various competitive Exams, UGC – NET and GATE exams by making the digital resources search faster & easier for the students by offering a digital library catalogue. Students can identify the number of copies left in the library, its location, and such crucial information and then visit the library to get the books. For e-books, they can directly get information & access it at any point in time.

The ILMS used by Dr. B.R. Ambedkar central library is simple and extremely simple software which is easy to use. The library is in a separate building of total area 40031Sq.feet with a lending section, reading halls with Reference collection, Group discussion room, Magazine reading/ Periodicals section, and Digital Library enabling the students to learn via e- sources and OPAC facility for ready reference. The researchers and students can probe into their research areas with ease, enhancing the productivity and management of books for the library

The e-sources like DELNET and e – Journals are available for the needs of the students and facultythrough online access for **Knimbus e-Library** which has been setup on the central libraryplatform. This platform also enables the users to make “**Your Library, Your Way**” using <https://jntuka.knimbus.com> website and **Andriod** Mobile app is also available.

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

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

Response: A. Any 4 or more of the above

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format	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: 27.16

4.2.3.1 Annual expenditure for the purchase of books and journals including e-journals year-wise during last five years (INR in Lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
50.04	0.14	5.97	24.39	55.28

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	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 latest completed academic year

Response: 20.31

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

Response: 575

File Description	Document
Details of library usage by teachers and students (Library accession register, online accession details to be provided as supporting documents)	View Document
Any additional information	View Document

4.3 IT Infrastructure

4.3.1 Percentage of classrooms and seminar halls with ICT - enabled facilities such as LCD, smart board, Wi-Fi/LAN, audio video recording facilities. (Data for the latest completed academic year)

Response: 91.55

4.3.1.1 Number of classrooms and seminar halls with ICT facilities

Response: 65

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format	View Document
Paste link for additional information	View Document

4.3.2 Institution has an IT policy, makes appropriate budgetary provision and updates its IT facilities including Wi-Fi facility

Response:

JNTUK Information Technology Policy

Introduction

The Jawaharlal Nehru Technological University Kakinada (JNTU Kakinada) IT Policy and Procedure Manual provides the policies and procedures for selection and use of IT within the University which must be followed by all staff. It also provides guidelines JNTU Kakinada will use to administer these policies, with the correct procedure to follow. JNTU Kakinada will keep all IT policies current and relevant. Therefore, from time to time it will be necessary to modify and amend some sections of the policies and procedures, or to add new procedures. Any suggestions, recommendations or feedback on the policies and procedures specified in this manual are welcome. These policies and procedures apply to all employees.

Technology Hardware Purchasing Policy

Purpose of the Policy

This policy provides guidelines for the purchase of hardware for the University to ensure that all hardware technology for the University is appropriate, value for money and where applicable integrates with other technology for the University. The objective of this policy is to ensure that there is minimum diversity of hardware within the University.

Procedures

Purchase of Hardware

The purchase of all desktops, servers, portable computers and other computer peripherals must adhere to this policy.

Purchasing desktop/laptop computer systems

The desktop computer systems purchased must run a Suitable Operating System and integrate with required hardware. The desktop computer systems must be purchased as standard desktop system bundle. The desktop computer system bundle must include: Operating system and any Software's (as per the requirement) Processor, Internal & External Memory, Keyboard, mouse speakers, microphone, webcam etc.

Any requirements with a technical specification must be authorised by a technical team and approved by the Registrar, JNTU Kakinada. All purchases of desktops/laptops must be supported by guarantee and/or warranty requirements and OEM. All purchases for desktops/laptops must be in line with the JNTU Kakinada purchasing policy.

Purchasing server systems

Server systems purchased must be compatible with all other computer hardware in the University. All purchases of server systems must be supported by OEM, guarantee and/or warranty requirements and be

compatible with the University's other server systems. Any change from the above requirements must be approved by the Registrar, JNTU Kakinada.

All purchases for server systems must be in line with the JNTU Kakinada purchasing policy.

Purchasing computer peripherals

Computer system peripherals include printers, scanners, external hard drives etc. Computer peripherals can only be purchased where they are not included in any hardware purchase or

are considered to be an additional requirement to existing peripherals. Computer peripherals purchased must be compatible with all other computer hardware and software in the University.

All purchases of computer peripherals must be supported by guarantee and/or warranty requirements and be compatible with the University's other hardware and software systems.

Any change from the above requirements must be authorised by the Registrar, JNTU Kakinada. All purchases for computer peripherals must be in line with the JNTU Kakinada purchasing policy.

Policy for Getting Software

This policy provides guidelines for the purchase of hardware for the University to ensure that all hardware technology for the University is appropriate, value for money and where applicable integrates with other technology for the University. The objective of this policy is to ensure that there is minimum diversity of hardware within the University.

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

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

Response: 4:1

File Description	Document
Upload any additional information	View Document
Student – computer ratio	View Document

4.3.4 Available bandwidth of internet connection in the Institution (Leased line)

Response: A. ?1 GBPS

File Description	Document
Details of available bandwidth of internet connection in the Institution	View Document

4.3.5 Institution has the following Facilities for e-content development

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

Response: A. All of the above

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format	View Document
Links of photographs	View Document

4.4 Maintenance of Campus Infrastructure

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

Response: 70.22

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)

2021-22	2020-21	2019-20	2018-19	2017-18
1561.95648	1801.57923	2432.74641	1840.47694	1898.47044

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format	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:

Maintenance of IT systems in JNTUK

The systems are purchased by the JNTUK on requisition from the various departments. The departments that procure them take up the preventive maintenance by calling for sealed bid from the various system service organizations stating their requirements and the lowest bidder matching with the quality requirements are selected and the agreement will be signed by both the concerned parties. The repairs of LCD projectors and computer equipment maintenance will also follow the same procedure.

Maintenance Physical Education & Sports equipment in JNTUK

Physical Education & Sports is widely recognized as an integral part of total education process of JNTUK and the institute provides funding for sport as an investment in the community in terms of national pride, improved health, economic activity and stronger communities. The staff allocated for the proper functioning and maintenance of sports facilities are one assistant professor of Physical education and two assisting faculty, one gym trainer, one self defensive skills trainer and one store keeper along with three ground men.

The three ground men who maintains the sports grounds and maintains the sports grounds and report to the physical education director. Any requirements will be brought to the notice of head and after proper approval the task will be accomplished.

Maintenance of Gym, yoga and self defence skill centers

The gym equipment has cardio, strength and free hand equipment are set up and are periodical maintained and wear and tear will be taken care of. The yoga trainers and self-defence trainer will maintain their concerned activities will coordination with the physical education head. The sweepers will maintain the yoga room well ventilated and clean.

Maintenance of Park, canteen and amenities centre

The Park is maintained by the university by periodical trimming of grass and plants and weeding done by the gardeners periodically as a standard procedure. The canteen and amenities centres consisting of SBI ATM and Photostat will be kept clean by the sweepers and cleaning persons who will be assigned the duties on rotation basis by the Sargent and the maintenance supplies will be provided to the staff.

Maintenance of class rooms, auditoriums and seminar halls

All the departments are allocated sweepers and attenders to maintain the classrooms in a neat and hygienic manner. The Head of the departments seek the student and faculty feedback regarding the maintenance of the premises and discrepancies will be strictly addressed.

Maintenance of toilets and waiting halls

The scavengers are assigned the duty of properly maintaining the washrooms and toilets whose cleanliness

and hygiene are monitored by the office staff.

Maintenance of Labs and innovation centre: The labs and innovation centre are regularly monitored and maintained by the lab technicians and attenders

Security: The security system is outsourced and periodically monitored and maintained.

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

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the institution, Government and non-government agencies (NGOs) during the last five years (other than the students receiving scholarships under the government schemes for reserved categories).

Response: 64.82

5.1.1.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2021-22	2020-21	2019-20	2018-19	2017-18
1503	1596	1959	1503	1537

File Description	Document
Upload self attested letter with the list of students sanctioned scholarship	View Document
Upload any additional information	View Document
Institutional data in prescribed format	View Document
Link for additional information	View Document

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

Response: 55.52

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

2021-22	2020-21	2019-20	2018-19	2017-18
1575	1251	1423	1237	1455

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

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

Response: A. All of the above

File Description	Document
Institutional data in prescribed format	View Document
Link for additional information	View Document
Link to Institutional website	View Document

5.1.4 The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases 1. Implementation of guidelines of statutory/regulatory bodies 2. Organisation wide awareness and undertakings on policies with zero tolerance 3. Mechanisms for submission of online/offline students' grievances 4. Timely redressal of the grievances through appropriate committees

Response: A. All of the above

File Description	Document
Upload any additional information	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
Link for additional information	View Document

5.2 Student Progression

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

Response: 100

5.2.1.1 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

2021-22	2020-21	2019-20	2018-19	2017-18
89	52	39	10	8

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

2021-22	2020-21	2019-20	2018-19	2017-18
89	52	39	10	8

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

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

Response: 40.45

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

2021-22	2020-21	2019-20	2018-19	2017-18
450	240	186	268	271

File Description	Document
Upload any additional information	View Document
Self attested list of students placed	View Document
Institutional data in prescribed format	View Document
Link for additional information	View Document

5.2.3 Percentage of student progression to higher education (previous graduating batch).**Response:** 4.76**5.2.3.1 Number of outgoing student progressing to higher education.**

Response: 37

File Description	Document
Upload supporting data for student/alumni	View Document
Institutional data in prescribed format	View Document
Link for additional information	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 events (award for a team event should be counted as one) during the last five years.

Response: 27

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

2021-22	2020-21	2019-20	2018-19	2017-18
8	2	11	4	2

File Description	Document
Institutional data in prescribed format	View Document
e-copies of award letters and certificates	View Document
Link for additional information	View Document

5.3.2 Presence of Student Council and its activities for institutional development and student welfare.**Response:**

The students have active representation on academic and administrative committees of the University. 77% of the committees have active student participation and involvement in various activities conducted by the

committees. The University encourages students and provides opportunity to develop leadership qualities by organizing and carrying out various activities in the college under different committees.

Student Council:

The Student Council at JNTUK is a body of student representatives who act as a bridge between students and the administrative authorities. Students have active representation on academic and administrative bodies and committees of the different departments. Students representing UG and PG courses in the college are selected based on their leadership qualities as well as academic grades. The student council officially represent all the students of the institute. It acts as a medium between the faculty and students. They work with a sense of responsibility in dealing with the student concerned activities. The Institute also encourages participation of student representatives in various decisions making, academic and administrative committees, which enable them in acquiring better academic environment. Student opinions and suggestions are considered to take measures with students' perception. The institute puts efforts for the all-round development of a student. The student members are involved in various institute and department level committees with active participation and represent the students of their class with respect to conduction of activities and events or sharing any other information related to students.

The composition of a Student Council includes: President, Vice-President, Secretary, Treasurer, Technical coordinator.

Technical associations:

There is a IETE technical association at institution level. The committee of the association is headed by one or more faculty coordinators and one or two students will be elected members from each class that constitutes the committee. Under the technical associations, various technical events and co-curricular activities such as paper presentations, technical quizzes, seminars, training programmes, hackathons will be conducted every year. The student coordinators actively take part in organizing various events under these technical associations. They also motivate other students to take part in the activities conducted by the Institute.

Extra-curricular activities and Sports:

Students have strong representation not only in academics but also in all cultural, literary and sports committees and help in organization and management of events. Various events and programmes will be conducted every year and student coordinators play an active role in organizing the events during cultural and sports fests.

Hostel Committee:

There are student coordinators for each floor of every hostel building. Each mess in the hostel is managed by Mess Secretaries who are elected by the hostellers through an election process. They monitor day to day activities like food quality, hygiene and other general facilities and bring to the notice of the Chief warden/Officer In-charge of Hostels and warden immediately if there are any issues.

In addition to the above, the student coordinators are actively involved in the activities of various committees like anti ragging, grievance redressal, website etc. and play a very important role in most of the academic and administrative committees.

5.3.3 Average number of sports and cultural events / competitions organised by the institution per year**Response:** 11.6**5.3.3.1 Number of sports and cultural events / competitions organised by the institution year - wise during the last five years.**

2021-22	2020-21	2019-20	2018-19	2017-18
2	0	11	24	21

File Description	Document
Upload any additional information	View Document
Report of the event	View Document
Institutional data in prescribed format	View Document
Link for additional information	View Document

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

The 75-year-old Government College (Autonomous), has a strong, committed, registered and functional Alumni Association. The alumni of the college are widespread all over the world in various capacities ranging from, Renowned Engineers, Technocrats, Entrepreneurs, Scientists, IAS, IPS Officers, Academicians, Artists, Lyricists, Politicians, and Social Reformers. It is not surprising to find three generations of students from the same family graduating from this institution. JNTUK has a registered Alumni Association for building strong bond between alumni and present students. The alumni association give support to the students through interaction, financial funding, guidance and placement. The Alumni Association "ENGINEERING COLLEGE OLD STUDENTS' ASSOCIATION (ECOSAK). Kakinada-3 (A.P.) was registered under Societies Act XXI of 1860 with Society No. 92 of 1970. The office headquarters of ECOSAK is in the premises of JNTUK Kakinada, A.P., India. The association has chapters in Hyderabad, Visakhapatnam, USA and many more places for the better connect of alumni with university. A separate webpage for alumni is created as <http://ecosak.org.in>. The mission of the Alumni Association is to foster a mutually beneficial relationship between the Institute and its alumni. Alumni meet is arranged on First Sunday of January every year.

Objectives of the Alumni association:

- To encourage and promote close relations between the Institution and its alumni and among the alumni themselves for well- being of the institution.
- To provide and disseminate information regarding their Alma Matter, its graduates, Faculties and students, to the alumni.
- To assist and support the efforts of the Institution in obtaining funds for development.
- To serve as a forum through which alumni may support and advance the pursuit of academic excellence at the Institution.
- To organize and co-ordinate reunion activities of the Alumni and let the Alumni acknowledge their gratitude to their Alma Matter.
- To collect, publish and distribute such information as may be useful to the alumni and their Alma Mater.

Activities and Contributions:

- The Association offers its help to the Management in mobilizing resources for the development of the institution. It identifies students from deprived economic background and supports them by providing scholarships/merit awards on certain basis of the institution.
- Alumni are included as members in the Board of studies of all departments. They are invited for meetings at the college and they interact with their teachers and express their suggestions on curriculum revision.
- Few Alumni gave Guest lecturers to the existing students on some contemporary technological developments and career guiding focuses.
- The alumni also lent a helping hand to the College for raising funds on the occasion of Golden Jubilee and Platinum Jubilee celebrations and constructed silver jubilee building, Golden jubilee (Swarnosava Bhavan cost worth Rs.22 lakhs), Diamond jubilee Indoor stadium (worth Rs. 5.3 crores).
- Alumni also proposed to construct a platinum jubilee alumni centre with an estimated cost of 4 crores).fund rising has already been completed.
- 1979-83 alumni batch has contributed an auditorium in the campus with a project cost of Rs. 2.5 crores

File Description	Document
Any additional information	View Document
Link for additional information	View Document

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

Response: A. ? 100 Lakhs

File Description	Document
Any additional information	View Document
Link for any additional information	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The institution has a clearly stated vision and mission which are reflected in its academic and administrative governance.

Response:

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.

Vision

The University is primarily promoting quality of education in the areas of Science, Technology, Engineering and Management (STEM) as four academic pillars of education, to excel in teaching, learning, research, consultancy and placements through innovative practices with global perspective”

Mission

The University is moving forward with a mission of promoting excellence, access, inclusion and relevance in quality in Science, Technology, Engineering and Management, namely

- Design an Industry relevant curriculum from time to time with a Global perspective
- Promoting quality education by embracing ICT delivery mechanism with continuous pedagogy through e-learning mechanism
- Spread across for industry collaborations with a focus to pre-training and placements for technology transfer to society
- Establishing centres of excellence to promote research and innovations in multidisciplinary areas to bring in patent culture and consultancy practices
- International Collaborations for student outreach
- Facilitating international students to study in JNTUK to infuse cross culture learning practices.

Core Values:

Academic Excellence, Research & Innovation, People Technology & Creativity, Social & Environmental Responsibility, Human & Intellectual Knowledge

The University instills the thought that it is fully capable of orienting knowledge and information in a scientific manner in the minds of the young people. JNTUK aims at helping the students population avail quality education with latest technologies in an IT-savvy environment and core engineering industries. It gives the students an opportunity to study the subject they want. They can choose from numerous undergraduate, postgraduate and Doctoral programs of different disciplines like Engineering, Management, Pharmacy, Food Technology, Biotechnology etc.. Interactive classrooms, well equipped laboratories, sports facility of national standards, natural beauty, places with spiritual essence and the entire site filled with artifacts not only provide the best learning platform to the students but also ensures that they are made

aware of the cultural heritage of the country.

JNTUK operates towards social and psychological promotion of the students community. As a result, today JNTUK not only offers academic programs in variety of disciplines but also inculcates amongst its students the values and ideals of Indian culture and way of life with the help of its value added courses and university electives so that JNTUK graduates emerge as flag bearers of knowledge, warmth, empathy and light; they be the ambassadors of collective human wisdom and envoys of freedom and dignity; enlightened citizens with a strong value base reflective of the spiritual heritage and the scientific achievements.

Major Decision Making Bodies: The Executive Council is the apex body of decision making. The body takes major decisions like conceptualization of ideas, strategy formulation and appointment of university officials. It is followed by Academic Senate which is the highest decision making body in the university on academic matters and performs functions like: designing of course curriculum, academic ordinances and regulations. Academic senate reviews the minutes of Board of Studies of various departments, other bodies.

File Description	Document
Any additional information	View Document
Link for additional information	View Document

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

Response:

The institute supports a trend of decentralized governance system with participative management proper well defined inter-relationships.

University Level: The management of the University has main two basic committees, Executive Council and Academic Senate. Regular meetings of these committees held for the effective and smooth functioning of the University under which all the activities are carried out. The Executive council takes major decisions like conceptualization of ideas and strategy formulation. The Academic Senate which is the highest decision making body in the university on academic matters and performs functions like: designing of course curriculum, academic ordinances and regulations. Academic senate reviews the minutes of Board of Studies of various departments, other bodies. Financial power is given to Registrar for the development of the institution.

Institute level: All the main decisions related to the institute are taken by the principal/Special officer/Director in consultation with the heads of department. Principal is the academic and administrative head of the institute and the member secretary of the governing body. Financial power is given for the development of the institution.

Department level: the department heads are responsible for day-to-day administration of the department

and report to the principal/Special officer/Director. In addition, faculty and staff members are part of the decision making. Students are also part of the decision making and also participate through different formal and informal feedback mechanisms to improve the system and procedures. Suggestions boxes are kept in every prominent place to collect the suggestions from students, faculty, staff other stakeholders.

Various committees: There are various academic and administrative committee at the university level where both faculty and students are in decision, there are some committee where the students take lead and move ahead. In some of the committee there are other stakeholders. These committees will help the students and faculty to excel in their leadership skill and test their performance through the outcomes of the activities.

Case study: Taking a case study of NSS Cell with students volunteers where the students actively gets involved in socially responsibilities within the campus, neighborhood community, etc. There are three NSS units available in the campus. The NSS programs will help students to develop holistically. The faculty and the students gets a chance to meet and interact with public and public servants who may get inspired to serve the society at large. This activity will help the stakeholders to realize the importance of the NSS activity which helps the transformation of the life style of the community towards healthy environment. One of the important services rendered by NSS volunteers is disseminating information about latest developments, non-conventional energy, sanitation, nutrition and personal hygiene etc.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.2 Strategy Development and Deployment

6.2.1 The institutional Strategic plan is effectively deployed.

Response:

STRATEGIC GROWTH PLANS 2018-23

JNTUK has formulated a comprehensive and progressive two-decade strategic plan, in tune with its Vision and Mission, to become a leading teaching-cum-research Institute through a standard system of education, with more emphasis on fundamentals, after an exhaustive self-examination by all its stakeholders, including external experts from HEIs.

STRATEGY I: To impart Personnel Skills and Ethical Values for Sustainable Development of the Nation.

1. Establish multidisciplinary centers to offer innovative, flexible PG, PhD and direct PhD (after BE/BTech) Programs on high demand areas for simulating and vibrant learning experience.
2. State-of-art equipments, educational tools, learning and library resources for high quality educational

learning environment.

3. Continuous upgradation of class room facilities, ambience and appearance of campus facilities and grounds.

4. Attracting students' from other states and countries through unique facilities and pre-eminence.

STRATEGY II: To create Research & Industry oriented centers of excellence in all engineering disciplines.

5. Provide ample need and merit based assistantships for PG, PhD and direct PhD Scholars.

6. Enhance students' academic success through a rich, caring and challenging educational environment.

7. Enhance students' employability through on-campus finishing school by improving students' communication skills, soft skills and professional skills.

8. Special attention for full participation of women students and socially/ academically disadvantaged students.

9. Opportunities for leadership development, ethical practices, entrepreneurship and social commitment.

10. Product Incubation Center and seed money for students' works towards product development and innovation.

STRATEGY III: To be a renowned IPR generator and repository for innovative technologies.

11. Faculty recruitment and retention plans including a competitive, merit and outcome based incentives and rewards.

* Attract, appoint and retain minimum ten senior faculty members who have potential to lead, research, develop and attain the highest honours in their discipline. Vast alumni network will be tapped in this regard.

12. Build a cohesive team to achieve academic, research and consultancy targets.

* Build great teams for Industry-Institution Interaction, Academic and sponsored Research, Institutional Networking, Consultancy and extension activities etc.

STRATEGY IV: To develop Research and Industry oriented technical talent.

13. Increased Industry-Institution Interaction through MOUs for mutually beneficial relationship with Industries and public enterprises in the areas of research, development, training and technology transfer.

14. Increased Internal Revenue Generation to facilitate enhancement of facilities and outcome based compensation.

STRATEGY V: To benchmark globally the academic & research output.

15. Opportunities for UG, PG and PhD students to participate in industrial research, product development assignments, consultancy etc

16. Continuously improve faculty and staff competence through regular deputation to seminars, workshops, conferences, summer/winter schools, faculty and staff development programs etc., both in India and Abroad.

File Description	Document
Any additional information	View Document
Strategic Plan and deployment documents on the website	View Document
Link for Additional Information	View Document

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

Response:

JNTUK has in place all the bodies and committees that enable participation of all stakeholders in decision making and implementation process. As per JNTUK, there is an established academic and administrative hierarchy set up with well- defined roles and responsibilities of administrators, teachers and employees. Policies are framed for various aspects of administration. There are policies and guidelines like Research Promotion Policy, IPR Policy and Consultancy Policy etc.

There are two types of functional units: Academic and Administrative in order to achieve the vision, mission and strategic planning of the University:

Academic Functioning:

JNTUK has various schools which work together to meet interdisciplinary approach for scholarly learning and innovation. Each institute is headed by a Director /Principal having overall leadership responsibility for the School. The Director/Principal is also responsible for policy level involvement and decisions pertaining to Programs of the concerned Institutes.

Director/Principal of various institutions have operational leadership responsibility for day to day administration and functioning of classes and courses in different programmes including quality and effectiveness of Teaching-Learning, monitoring progress of the students, interacting with the parents, managing the examinations, etc.

For academic monitoring and approval of Programmes, the University has two statutory bodies:

Board of Studies (BOS) that looks after all curricular matters of the respective programmes/departments. The BoS updates the existing program curriculum and also initiate proposal for introduction of any new program. The minutes of the BOS are presented before the Academic Council for consideration and

approval.

The Academic Senate is the principal academic body of the University for the approval of all academic matters.

Administrative Functioning

JNTUK has an Administrative Unit, headed by a registrar which functions in close collaboration with the Academic Unit for the routine operations of University.

Under the Registrar, Joint Registrar(JR) and Deputy Registrar(DR) to monitor and maintain accounts, engineering and infrastructure, personnel services, purchasing, warehousing, equipment repair, printing etc.

The University has Finance Committee to consider the accounts and financial estimates of the University and submit them for approval to the EC which is headed by VC of the University and the Registrar as member secretary.

File Description	Document
Any additional information	View Document
Link to Organogram of the University webpage	View Document
Link for Additional Information	View Document

6.2.3 Institution Implements e-governance covering following areas of operation

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

Response: A. All of the above

File Description	Document
Screen shots of user interfaces	View Document
ERP (Enterprise Resource Planning) Document	View Document
Details of implementation of e-governance in areas of operation, Administration etc (Data Template)	View Document
Any additional information	View Document
Link for additional information	View Document

6.3 Faculty Empowerment Strategies

6.3.1 The institution has a performance appraisal system, promotional avenues and effective welfare measures for teaching and non-teaching staff .

Response:

Every year the University invites the Application forms in the Academic Performance Indicator (API) based Performance Based Appraisal System (PBAS) through the Chairperson of the department from the teachers who have completed eligible service for promotion under Career Advanced Scheme based on G.O.Ms No. 14 Higher Education (UE) Department, dated 13-02-2019 and UGC Notification dated 11th July 2016(4th Amendment). The Principal of the College will be requested to obtain applications and forward the filled in application forms of the teaching staff members who have completed the eligible service for the award of promotion. The Principal of the college is requested to send the API and PBAS in respect of the staff members in the prescribed proforma. The proforma of application form along with API and PBAS is circulated among teaching staff members of the College. The Principal will certify the information furnished by the staff members based on the records available in the College such as Service Registers/Original Certificates while forwarding the filled in applications to the University. The Service Register with up-to-date entries along with attested copies of certificates shall be enclosed to the application.

The Governance of JNTUK implemented various monetary and non-monetary welfare measures for both Teaching and Non-Teaching employees.

MONETARY WELFARE SCHEMES

For the employees recruited before September 2004:

1. Pensioner Benefits.
2. GSLIC Contribution scheme.
3. General Provident Fund Facility
4. UGC unassigned grants for paper presentation in Abroad Registration Fee+ Travel Grant + DA (As per UGC norms).
5. EL encashment for 15 days per year for non-teaching staff.
6. 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 September 2004:

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

Outsourcing Staff:

ESI /EPF Contributions.

NON- MONETARY WELFARE SCHEMES

The University supports the faculty members to pursue their **Ph.D. All the Internal Regular Faculty or Assistant Professors (contract) of JNTUK, whose services are continued in JNTUK and its constituent colleges until completion of their Ph.D, a nominal tuition fee amount of Rs.5,000 per year is being collected.** The faculty members are considered as on duty and provide expenses to attend conferences, seminars, workshops, orientation program, Courses and faculty development programmes. 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

File Description	Document
Link for Additional Information	View Document

6.3.2 Average percentage of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the last five years.

Response: 21.69

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

2021-22	2020-21	2019-20	2018-19	2017-18
1	34	49	41	42

File Description	Document
Details of teachers provided with financial support to attend conferences, workshops etc. during the last five years (Data Template)	View Document
Link for Additional Information	View Document

Other Upload Files

1 [View Document](#)

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

Response: 14.6

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

2021-22	2020-21	2019-20	2018-19	2017-18
3	10	24	26	10

File Description	Document
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	View Document
Any additional information	View Document
Link for Additional Information	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: 33.6

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

2021-22	2020-21	2019-20	2018-19	2017-18
50	59	56	51	46

File Description	Document
Details of teachers attending professional development Programmes during the last five years (Data Template)	View Document
Any additional information	View Document
Link for Additional Information	View Document

6.4 Financial Management and Resource Mobilization

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

Response:

Jawaharlal Nehru Technological University, Kakinada (“JNTUK”) is a state legislated University constituted through the provisions of JNTU Act. 30 of 2008. JNTUK is recognized by University Grants Commission (UGC) as a State University and under Section 12(B) of UGC Act., 1956.

JNTUK is headed by Governor of the State as Chancellor and the Vice-chancellor appointed by the state Government and the University is controlled and run under the directions of the State Government and imparting education to several lakhs of students in many engineering colleges. JNTUK is carrying out an

exclusive statutory function in the field of higher education and has been delivering quality education by offering various Graduate, Postgraduate, and other Diploma Programmes to the students. JNTUK is substantially financed by the Government with respect to Salaries to the Regular Teaching/ Non Teaching Staff. The research and development activities are met from the University Development Fund which is from the sources of revenue like tuition fees fixed by APHERMC, hostel fees, income from research projects.

JNTUK University is a State University governed by AP State Government Grants, other grants from UGC and other agencies. Alumni Donations helps in developing the infrastructure. The resource mobilization in the University is through the sources of financial revenue as mentioned below:

Fee From Students, Interest on Corpus Fund / Endowment Fund, Consultancy, Donations, Alumni and Other Research Project Grants Other earnings are from fee received from the participants in the seminars, conferences, national level events or training organized by the University. Affiliation fee from all the affiliated engineering colleges

The corpus fund and interests accrued from it can further be marginally increased. There is a possibility of corpus improvement by considering the following strategies:

JNTUK University looks forward to increase the earnings from consultancy.

Leveraging financial resources by encouraging alumni contributions to the University to increase the scholarship fund provided to the deserving students.

File Description	Document
Link for Additional Information	View Document

6.4.2 Funds / Grants received from government bodies during the last five years for development and maintenance of infrastructure (not covered under Criteria III and V) (INR in Lakhs).

Response: 2566.07

6.4.2.1 Total Funds / Grants received from government bodies for development and maintenance of infrastructure (not covered under Criteria III and V) year wise during the last five years (INR in Lakhs).

2021-22	2020-21	2019-20	2018-19	2017-18
0	0	2282.13	228.71	55.23

File Description	Document
Details of Funds / Grants received from government bodies during the last five years (Data Template)	View Document
Any additional information	View Document
Annual statements of accounts	View Document
Link for Additional Information	View Document

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

Response: 1107.9

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

2021-22	2020-21	2019-20	2018-19	2017-18
186.944	209.75	65.838	556.493	88.87913

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document
Link for Additional Information	View Document

6.4.4 Institution conducts internal and external financial audits regularly

Response:

Financial audit of the accounts is an important process and is strictly followed by the University. The University undergoes an external audit conducted by State Government Audit and AG office. They verify and confirm all finance related documents. Report of audit is submitted to higher education department and AG office and objections, if any, are attended from time to time. All the process in the University is strictly monitored by the Registrar, who is also finance officer at present. The copies of the audit are also preserved in the University for records. The Audit party also checks whether accounting standards have been followed for true and fair disclosure of financial statements. The audit also checks the budgetary compliances. The Internal Audit is conducted quarterly to ensure timely and proper deposit of statutory dues, budgetary control, compliance of sanctions and approvals, check for any payment irregularity etc.

File Description	Document
Link for Additional Information	View Document

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes by constantly reviewing the teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals.

Response:

JNTUK reviews its teaching learning process, structures & methodologies of operations and learning outcomes at regular intervals through various Heads of the departments of the institute. The HoDs reviews all processes structures and methodologies with quality of education as prime concern. In implementing the curriculum, the Feedback from different stakeholders such as students, Faculty, Alumni, and Industry is taken into consideration by inviting them during the BoS meetings. The University is implementing the Curriculum Revision for every three years by including advanced technologies, industry-oriented courses, skill courses, internships, Co-curricular, extra-curricular activities, Indian Constitution, Human values and Ethics, that will result in all round development and personality of the students.

- In order to achieve integrated higher education system, with professional and vocational education, the University has set up an Incubation centre which is providing Internship and training on employability skills by collaborating and networking with industries for promoting industry-oriented research in collaboration Wipro, Tetrasoft USA, Toople Singapore and Kakinada smart city project on advanced technologies
- University has made internship mandatory to all the students
- Introduction one/two semester duration intensive internship.
- **All the Faculty members are provided with laptops**, Hardware and Software tools to integrate the e-contents in to teaching-learning practices.
- University integrated Technology-based education platforms, such as DIKSHA/SWAYAM/NPTEL in the curriculum.
- JNTUK had MOUs with foreign universities like BTH Sweden, AIT Bangkok, CMU USA offering dual degree programmes with Faculty and student exchange.
- All the faculty in the University is given autonomy to design the curriculum based on the recent advances and industrial needs.
- The University already implemented the Choice Based Credit System and planning to revise with more flexible and student centric
- The entire evaluation process is continuous and Comprehensive.

1) The strategies are framed by the university keeping in view the quality changes required for the development of the university the norms set by UGC, AICTE, State Government, MHRD and other statutory bodies are strictly followed at the time of student admission and the revision of curriculum. Apart from the lecture method of teaching, Group discussion, debates, Tutorials, seminars, Case study, Study tours adopted for improving teaching learning process. While designing the curriculum Learning outcomes are stated and at the end of semester review is made about the achievement of learning outcomes, Innovations in teaching learning process followed by best of the Institution are also taken note of Apart

from this IQAC takes different quality initiatives in the form of seminars, Workshops, faculty development programme and Other such initiatives to enhance the quality of teaching learning process.

2) An exclusive Directorate of Internal quality assurance cell has been established in the university for initiating quality enhancement scheme. It has been constituted as per the format prescribe by the NAAC. Quality assurance strategy and processes are being discussed and subsequently review by IQAC cell has initiated various measures though it is in the first cycle of NAAC accreditation.

The initiatives under taken are

- Formation of Directorate of IQAC
- Initiating and continuation of NAAC AQAR reports preparation and submission
- Organizing Faculty Development Programs from the University
- Workshop on NAAC awareness program to all units of University and affiliated college principals in association with State Council of Higher Education.
- Periodic review of performance of teaching and non-teaching staff
- Review of teaching learning process
- Participation in NIRF

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.5.2 Institution has adopted the following for Quality assurance 1. Academic Administrative Audit (AAA) and follow up action taken 2.Confernces, Seminars, Workshops on quality conducted 3. Collaborative quality initiatives with other institution(s) 4.Orientation programme on quality issues for teachers and students 5. Participation in NIRF 6.Any other quality audit recognized by state, national or international agencies (ISO Certification, NBA).

Response: A. Any 5 or more of the above

File Description	Document
Upload e-copies of the accreditations and certifications	View Document
Upload details of Quality assurance initiatives of the institution (Data Template)	View Document
Any additional information	View Document
Link for Additional Information	View Document
Paste web link of Annual reports of University	View Document

6.5.3 Incremental improvements made for the preceding five years with regard to quality (in case of

first cycle), Post accreditation quality initiatives (second and subsequent cycles).

Response:

Continuous Curriculum Revision: The University has been revising the curriculum continuously for every 3 years

- New UG programme in Food Engineering is started to suit the food processing industry requirement
- Internship is made mandatory to all the students in the new curriculum
- A pool of interdisciplinary and job-oriented mandatory skill courses which are relevant to the industry are integrated into the curriculum of concerned branch of engineering (total five skill courses: two basic level skill courses, one on soft skills and other two on advanced level skill courses)
- University conducted Massive Open Online Courses(MOOCs) for Computer Science & Engineering, Information Technology, Electronics & Communication Engineering and Mechanical Engineering
- All the Faculty members are provided with required Hardware and Software tools to integrate the e-contents in to teaching-learning practices.

Establishment of Design Innovation Centre: Design Innovation Centre was granted by MHRD under the scheme “National Initiative for Design Innovation” to facilitate design-focused research. The project has the funding of Rs.10 Crores

Establishment of incubation and IPR directorate:

The University has established an exclusive Directorate “Directorate of Incubation & IPR”

The directorate is working in collaboration with Wipro Ltd., Tetrasoft USA , TOOOPLE Singapore, Missouri state university and Chicago state university of USA.

The directorate has made an MoU with the Andhra Pradesh State Government Police Department for generic problems such as traffic management and other societal needs

Organized a 17 Days Online Workshop in association with EXCELR on “Applications of Data Science for Industrial Problems through Python during 10th August 2020 to 28th August 2020.

Improvement of the quality of research and quality publications: Majority of faculty has Ph.D., and faculty contributed good number of publications. Quantitatively and qualitatively the publications increased during this academic year (in Scopus and reputed Journals). Good number of patents was also filed.

Improvement in the Industrial Consultancy Services (ICS): Industrial Consultancy Services (ICS) revenue of around Rs. 100 Lakhs achieved

Quality Training Programmes for stake holders:

- In collaboration with APSSDC established Siemens Centers of Excellences (SCE) for providing the training to the unemployed and regular students to enhance the professional skills to suit the industry needs.
- A workshop on Quality Enhancement Assessment and Accreditation of NAAC Engineering Colleges was organized for Principals/Nodal Officers of all constituent and affiliated colleges of JNTUK for NAAC awareness on 11th November 2019.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

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

Response:

Gender equality is one of the key challenges faced in the society today. The institute conducts regular gender equity promotion programs. Guest speakers from prominent field are invited to speak on the given topic which highlights the importance and contribution of women in the society.

JNTUK has a strong ethical work culture that is based on inclusivity. It observes highest ethical standards in all its activities. Equal opportunities are provided to all individuals irrespective of gender, race, caste, color, creed, language, religion, political or other opinion, national or social origin, property, birth or other status. Its unique work culture, healthy traditions and ethos have led to enrolment of safety, security and well-being, along with gender equity and friendly working atmosphere are the issues of prime concern to JNTUK.

The following facilities are provided by JNTUK for the promotion of Gender Equity.

1. Girls Common Room: Jawaharlal Nehru Technological University, Kakinada facilitates common room for girls within the campus at Pharmacy Department first floor, Hostel Building.

Girls Common Rooms are provided with:

1. Toilets
2. Drinking Water Facility
3. Beds to take rest if any student feels sick.
4. CC Camera outside the room for security purpose
5. Chairs and dining table take to have food.

2. Safety and Security: Jawaharlal Nehru Technological University, Kakinada provides the following facilities for the safety and security of girl student.

1. Well-trained and vigilant women security guards stationed across the campus.
2. Security checkpoints at all campus entries and exits.
3. CC camera surveillance campus.
4. Extensive surveillance network with 24x7 monitored control rooms.
5. Rotational duty by all faculty members for discipline and security.
6. The Proctorial Committee includes male and female proctors at institute as well as faculty level.

3. Daycare Center: Jawaharlal Nehru Technological University, Kakinada provided Day-care center inside the girl's hostel compound within the campus. JNTUK staff whoever require can avail this facility during college working days by dropping their children at daycare centre.

The facilities provided in the day care centre were procured under **UGC XI plan Funds**.

The following facilities are provided in daycare centre:

1. Nanny to take care of children
2. Washrooms/Toilets
3. First aid kit
4. C.C Camera for Security, Air conditioner and Refrigerator
 1. Electricity, Fans and Lights
 2. Kids beds
 3. Toys to play, Animal, colors and alphabet charts
 4. Story books and Basic learning books Alphabet, Animals, Colors, Flowers, transports, fluids and vegetables etc.

4. Counseling: Jawaharlal Nehru Technological University, Kakinada provides counselling and also deals with gender sensitization issues, emotional and academic support of both at the personal and institutional level. JNTUK provides Counselling cell at Room No: 104 of IST Building with Good ventilation, Electricity, CC Camera, table and chairs.

5. Spandana Grievances:

- Spandana Grievances, UGC Grievances are redressed by Directorate of Empowerment of women & Grievances.
- Grievances Boxes are provided in every department of university, which are monitored under the same directorate.
- Monthly meetings are conducted by the directorate to all the units of the University
- 150 number of Spandana Grievances are addressed up to November 2021.
- 12 number of UGC Grievances addressed up to November 2021.

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

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

- 1. Solar energy**
- 2. Biogas plant**
- 3. Wheeling to the Grid**

- 4.Sensor-based energy conservation**
5. Use of LED bulbs/ power efficient equipment

Response: A. 4 or All of the above

File Description	Document
Geotagged Photographs	View 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:

JNTUK key operations has very less impact on the environment as the University is very conscious of generating less waste and recycling it by passing it through a system that enables the used material to be reused ensuring that less natural resources are consumed.

The college has segregated waste into three parts:

- a) Solid Waste b) Liquid Waste c) Hazardous Lab Waste

1. Solid waste management:

The waste is generated by all sorts of routine activities carried out in the College that includes paper, plastics, glass, metals, foods, etc. The waste is segregated at each level and source. The administrative supervisor in each block ensures that the waste in each floor is collected at designated time intervals. The block safai workers in each floor collect, clean, segregate and compile the waste in the dustbins (Green and Blue) provided at each floor. The floor dustbins are emptied in movable containers/dustbins provided for each block and is taken to the dumping yard provided by the College.

For collecting the solid waste from nook and corner of the campus substantial number of dustbins are installed. Most of the waste collected is biodegradable. The minimal amount of non biodegradable is mostly burnt in pits. The biodegradable portion too is dumped in pits for decomposition over time.

2. Liquid waste Management:

All the liquid waste from washroom, bathroom is collected into soakage pits through systematic drainage. Zero percent leakage of waste water is ensured.

3. Waste Recycling System:

- Paperless office.

The Campus having good practices of paperless office by providing online trainings to students, conducting goggle meets with faculty, Google classroom, e-Lectures and e Reports etc.,

4. Hazardous chemicals and radioactive waste management:

- Neutralization Tank

Campus having the Chemistry lab & Environmental Lab, the water obtained from the Chemical laboratories is being disposed-off directly into the drains provided to dispose and they are being neutralized with their further flow.

Chemistry labs effluent has variation in its pH on a large scale. The lab effluent from an educational institute generally comprises of acids like HCl, HNO₃, H₂SO₄, EDTA and bases like NaOH, CaOH, Na₂CO₃, NH₃ whose pH ranges from 2 to 13. This effluent causes adverse effects when disposed directly onto land or water bodies. As per effluent standards, Schedule VI of Environment (Protection) Act, 1986 all the parameters should be in the prescribed standards.

Neutralization is a chemical reaction in which acid and base react to form salt and water bringing the pH near to 7. This principle is used to control the variation of pH of the lab effluent. Employing a neutralization tank is found to be the more suitable method to achieve neutralization. Recycle this neutralized water, after Ph correction into waste water tank. Avoid drainage the laboratory waste water into storm water channel. As of the basic info from the audit team, Neutralization tank constructed for one lab. Good initiative to improve eco-score.

5. E –Waste Management:

Electronic goods are put to optimum use, the minor repairs are set right by the laboratory assistants and teaching staff and the major repairs are handled by the technical assistant and are reused.

File Description	Document
Geotagged photographs of the facilities	View Document
Any other relevant information	View Document

7.1.4 Water conservation facilities available in the Institution:

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

Response: A. Any 4 or all of the above

File Description	Document
Geotagged photographs / videos of the facilities	View 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: A. Any 4 or All of the above

File Description	Document
Various policy documents / decisions circulated for implementation	View Document
Geotagged photos / videos of the facilities	View Document
Any other relevant documents	View Document

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

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

Response: A. Any 4 or all of the above

File Description	Document
Reports on environment and energy audits submitted by the auditing agency	View Document
Certification by the auditing agency	View Document

7.1.7 The Institution has disabled-friendly, barrier free environment

- 1.Built environment with ramps/lifts for easy access to classrooms.**
- 2.Divyangjan friendly washrooms**

3. Signage including tactile path, lights, display boards and signposts
4. Assistive technology and facilities for 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
Geotagged photographs / videos of the facilities	View Document
Any other relevant information	View Document

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

Response:

Institution celebrates/ organizes national and international commemorative days, events and festivals. National festivals play an important role in planting seed of Nationalism and Patriotism among people of India. Our institution celebrates these events with great enthusiasm to commemorate the ideology of nationalism and to pay tribute to our great National Leaders. The Faculty, Staff and Students of the institution all come together under one umbrella to celebrate these occasions and spread the message of Unity, Peace, Love and Happiness throughout.

The Motto of the Institution in conducting the events is

1. To sensitize the students to the living conditions of the people who are around them.
2. To make the students aware of the need of Plantation.
3. To develop a holistic life perspective among the students by conducting the events related study culture, traditions, habits, lifestyles, resource utilization, social problems, public administration system and the roles across different social system.
4. Our institution organizes all kind of events to promote student ability.

Plantation day: Our institution organizes plantation day twice in a year. This day commemorates necessary of plants and trees in our society. And the students and faculty participates actively in planting. By this necessity of plantation spreads over the walls of JNTUK.

Swatch Bharat: As our Hon'ble Prime Minister said 'Clean India Make India', to recall his words every department of our college organizes Swatch Department program once in every two months.

Blood Donation: We believe that donation of Blood is healthy for both donor and society. In order to that camp's are organized twice in year.

Events Organized – NSS EVENTS

S.No	Name of the Event	Date	No of participants
1	Plantation	20/07/2017	71
2	Plantation	20-09-2018	88
3	One day conference on Drug De-Addiction	30/01/2020	88
4	Plantation	11/11/2020	95
5	Swachh JNTUK	28/12/2021	96
6	Plantation	21/12/2021	94
7	Mega Blood Donation Camp	08/04/2022	100
8	Swachh JNTUK	21/12/2021	102

File Description	Document
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View Document
Any other relevant information	View Document

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

Response:

India is a country which has unity in diversity, it includes individuals with different backgrounds viz., cultural, social, economic, linguistic, and ethnic diversities governed and guided by the Constitution irrespective of caste, religion, race sex.

Jawaharlal Nehru Technological University, sensitizes the students and the employees of the University to the constitutional obligations about values, rights, duties, and responsibilities of citizens which enables them to conduct as a responsible citizen.

In our institution, we believe in giving practical education to the students. And sensitizing students on our constitutional rights, values, duties and responsibilities is one of the primary educations given at the institute through various means. Sensitization of students and employees of the Institution to the constitutional obligations is done through curriculum as well as through extra-curricular activities. Many of the subjects offered have topics which sensitize the students about the constitutional obligations.

The University has introduced subjects on the Constitution of India and Professional Ethics & Values at Degree level across all engineering disciplines to create awareness. Many of the subjects offered have topics which sensitize the students about the constitutional obligations. As a part of strengthening the democratic values. Also, all students take a course on Environment studies in their first year which gives them insight into environment acts, wildlife protection act, forest act, global environmental concerns etc.

The University curriculum is framed with mandatory courses like Constitution of India, Essence of Indian Traditional Knowledge, Environmental studies as a small step to inculcate constitutional obligations among the students. University organized many social awareness events in which and employees participated actively. Every year our institution organize events that strengthens the democratic values in the students. we organize events like NATIONAL UNITY DAY, CONSTITUTIONAL DAY, and one day events like self-control and time management. In addition to that, students and employees actively participate in SWATCH JNTUK, as a part of this event students from each department voluntarily come up and keep the university surroundings clean.

Listed below are the events organized by the institution;

ACADEMIC YEAR	EVENT	NO OF PARTICIPANTS
2017-18	INTERNATIONAL YOGA DAY	100
2018-19	NATIOANL UNITY DAY	80
2019-2020	CONSTITUTION DAY	120
2019-2020	NATIONAL UNITY DAY	80
2019-2020	DRUG DE -ADDICTION	88
2020-2021	SWATCH JNTUK	60
2021-2022	PLANTATION DAY	60
2021-2022	WORLD AIDS DAY AWARENESS PROGRAM	163

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
Any other relevant information	View Document

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

Response:

Institution celebrates/ organizes national and international commemorative days, events and festivals. National festivals play an important role in planting seed of Nationalism and Patriotism among people of India. Our institution celebrates these events with great enthusiasm to commemorate the ideology of nationalism and to pay tribute to our great National Leaders. The Faculty, Staff and Students of the institution all come together under one umbrella to celebrate these occasions and spread the message of Unity, Peace, Love and Happiness throughout.

Republic day- The institution celebrates Republic day on 26th January every year, commemorating the adoption of Indian constitution and spreading the message that India is the largest democratic country in the world. This is a day to remind the students about the constitution of the country and the need to abide by it at all times. The celebration includes the hoisting of national flag and spreading a warm message of nationalism in a speech by the vice chancellor

Independence Day is celebrated every year on 15th of August, parades and flag hoisting is organized and is celebrated to mark freedom of India from British rule. The institution encourages students to remember our national leaders and their sacrifices

International Yoga day is celebrated on 21st June every year. The yoga Instructor organizes the yoga camp and a speech is conducted to make everyone aware on how Yoga embodies unity of mind and body; thought and action; restraint and fulfilment.

Events organized year wise are as follows:

2017-2018				
S.No	Name of the Event	Date	Name of the Occasion	No of participants
1	Celebrations of Independence day	15-08-2017	Independence day	88
2	Celebrations of Republic day	26-01-2018	Republic day	88

2018-19

S.No	Name of the Event	Date	Name of the Occasion	No of participants
1	Yoga day	21-07-2018	National Yoga Day	58
2	Celebrations of Independence day	15-08-2018	Independence day	58

2019-20

S.No	Name of the	Date	Name of the Occasion	No of participants
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	Event			
1	Yoga Day	21-07-2019	National Yoga Day	55
2	Celebrations of Independence day	15-08-2019	Independence day	50
3	Celebrations of Republic day	26-01-2020	Republic day	50

2020-21

S.No	Name of the Event	Date	Name of the Occasion	No of participants
1	Celebrations of Republic day	26-01-2021	Republic day	76

2021-22

S.No	Name of the Event	Date	Name of the Occasion	No of participants
1	Celebrations of Independence day	15-08-2021	Independence day	70

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

7.2 Best Practices

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

Response:

Best Practice-I

1. Title of the Practice

Conduct of University Examinations through electronic distribution of question papers by ensuring Confidentiality, Speed and Security among the number of students in JNTUK

2. Objectives of the Practice

1. To introduce fool proof system of distribution of question papers to all the affiliated colleges.
2. Speedy and secure distribution of question papers
3. To reduce manual intervention in distribution of question papers to avoid leakage of question papers
4. To avoid copying in the examination centre

The following objectives are taken up in examination.

Online announcement of Examinations, preparing Time Tables for test schedules, take up registration of students, Verification of eligibility of the student like attendance, Preparation of 4 sets of examination pertaining to each subject in Under graduate Program, Moderation for elimination of mistakes and inconsistent data, Conduct of Online examination adopting Electronic Distribution of question papers Examination, Pooling up of the Examination scripts and swapping the scripts, Coding of the scripts. Collection of Internal Marks colleges, mapping coded scripts to student and incorporating moderation and normalization and declaration of results in time.

3. The Context

To avoid of the problem of question paper leakage, the University is implementing electronic distribution of question papers for conduct of the end semester examinations. This will reduce the laborious task of distribution of question papers manually.

4. The Practice

- 1.The practice is to encrypt the question papers and place the encrypted files in the examination portal 30 minutes before the commencement of the examinations. The files will be downloaded and decrypted using a decryption tool and specified keys in presence of chief superintendent and a university observer. The downloaded question papers will be xeroxed into a number of copies as per the strength of the students at the examination centres.
- 2.To avoid copying in the examination centres by giving four different question papers for neighbouring students

JNTUK is contributing to quality evaluation of all the students pertaining to all units. The University developed fool proof examination system to take up activity of examination involving faculty both from constituent engineering colleges. Several Constraints will come into picture like handling huge loads of Answer scripts, transportation, identification of qualified and experienced valuers, maintaining time schedules and avoiding malpractices at several places.

Several security measures have been taken to carryout fool proof conducted of examinations .

- CC Cameras are placed at key locations which can be viewed by University administration including the Vice Chancellor directly from his chambers.
- Biometric Devices are issued
- Verification of All years coded scripts of all years carried out randomly for identification of malpractices
- Lady Security provided for verification of Female staff working in examination section
- All the staff members (Data Entry staff, Coding Team supervisors, Coding team assistants) earmarked for all Additional Controller of Exams(ACE)s year wise
- Entry to staff allocated for 1styear valuation to enter 2nd year valuation area and vice versa restricted.
- Every room in which the coding activity in progress will be sealed by Additional Controller of Exams(ACE) s /Regular office staff every evening
- All Internal marks / laboratory Marks of the examination from affiliated colleges collected before commencement of End Examinations
- Parking vehicles near examination section restricted
- Listing of activity of each ACEs and Accountability / involvement at each phase of valuation
- Regular office staff assigned responsibility of preparing attendance statements of adhoc staff
- Prevent Attenders from Using Cell Phones

5. Evidence of Success

1. There are no complaints of question paper leakage.
- 2.No delay in distribution of question papers at examination centres
- 3.Copying during examinations got reduced.

Adopting the above measures meticulously planning scheduling, Conduct and announcing the results the following success could be achieved

- Complete control over control of examination
- Continuous organized monitoring at test centres
- Minimizing malpractices adopting strict malpractice guidelines and imposing promotions
- Accountability to student with chance of revaluation and challenge valuation
- Modifying the Marks memos with all security features from time to time avoiding duplicates
- Result in Issue of genuinity certificates in time to all Universities abroad, Public and Private organizations confirming the credentials to have placements without delay.

6. Problems Encountered and Resources Required

Problems encountered

1. System admin need to be trained whenever there is change of the staff at the examination centre
2. IP based (using firewall) access to the examination portal is in use to avoid hacking of the examination portal.
3. It is required to ensure that the examination starts at the same time at all examination centres.

Resources required:

1. Internet facility with speed of 2 Mbps exclusively at each of the examination centres.
2. One Computer system with the software provided by the university
3. Two high speed Xerox machines
4. Power back up

7. Notes (Optional)

With the above expertise JNTUK could comfortably take up Common Entrance Tests (CETS) like Engineering, Agriculture and Pharmacy Common Entrance Test (EAMCET), Post Graduate Common Entrance Test (PGCETE), EAPCET (Engineering, Agriculture and Pharmacy Common Entrance Test) and State Level Recruitment Board examinations assisting Andhra Pradesh Government for timely conduct of prestigious examinations efficiently contributing to social needs other than Regular University Examinations.

Best Practice-II

1. Title of the Practice:

DEVELOPMENT OF INNOVATION AND INCUBATION CULTURE IN UNIVERSITY

1. Objectives of the Practice

JNTUK has an exclusive **Design Innovation Centre** built under the Prestigious project, “National Initiative for Design Innovation”, from MHRD, New Delhi with a Financial grant of Rs.10 Crores to facilitate design-focused research. The scheme is intended to promote the culture of innovations in the institute.

There are 3 collaborators for the Design Innovation project, viz., Acharya Nagarjuna University (ANU), Guntur, IIIT, Nuzivid and, IIIT, RK Valley, Pulivendula

To develop Innovation and Entrepreneurship culture, an exclusive **Directorate for Incubation and IPR** was established. Efforts are made to bring faculty and students from different domains together on a single platform to share ideas, help and learn from each other and provide solutions to Realtime societal sensitive problems.

Objectives:

In order to make the students of JNTUK as global citizens and to enhance their quality of life and employability by providing them exposure in cutting edge technologies such as Data Analytics, AI, Machine Learning and Cloud computing.

To achieve this, they should be digitally trained using experiential learning, collaborative learning and learn by example strategies through e-learning platforms with industry networking.

JNTUK incubation center is working towards this goal by establishing a digital Center of Excellence in collaboration with Wipro Ltd., India, Tetrasoft USA, TOOOPLE Singapore, Missouri State University and Chicago State University of USA.

1. The Context

Students may not have required exposure to directly implement the specific industrial project. It requires additional training beyond the college hours by industry experts. To get the industrial experts beyond the institute working hours to a place like Kakinada is a challenging task. The Infrastructural facilities like installation of Hadoop cluster and bigdata setup needs the help of Industrial experts.

1. The Practice

Under Design Innovation center, with JNTUK as hub and is working in the area “Development of Cutting tools” and the three collaborators, Acharya Nagarjuna University, Guntur is working in Biodegradable polymers, IIIT, Nuzivid is working in Biosensors, IIIT, RK Valley is working in Bio-mass Gas stoves.

In Incubation center, in order to implement any of the projects the challenges are the same

1. Real time problem definition: Approached Kakinada Municipal Corporation, Andhra Pradesh state Government Police & Revenue departments for obtaining the real time societal problems. The real time societal problems of Government will have problems with high data volumes and logical complexity.
2. Capacity Building: Challenge: Availability of Industrial expert to a location like Kakinada is a major challenge. Getting them beyond the working hours of the Institute and on holidays. The exercise may be an extra Burden on the Students apart from regular curriculum. The students can be motivated only with a few success stories.
3. Uniqueness: - This kind of challenge is unique in Indian Higher Education. As the institute is handling the Government related problems a few organizations have come forward under CSR activity and trained the students online during the night time and weekends.

When important projects like COVID tracking and work monitoring Dash Board for Municipal Corporation were successfully delivered, the students were appreciated by Municipal Commissioner and Honourable Vice-chancellor, JNTUK on a public platform which created motivation to the other students.

Also, Municipal Corporation sponsored an amount of Rs. 3,60,000/-. For further training in Angular JS. Now a skilled team of students were built who could deliver the higher health care Insurance Projects involving Angular JS, database, big data and Text minimizing technologies. Looking, at this success, the corporate companies like WIPRO and Infosys extended their helping hand for the continuous capacity building and curriculum reforms. This **helped in obtaining award of excellence from the Government of United States of America.**

The project was assessed to be the best based on the following merits:

- i) Involvement of Advanced technologies like Blockchain, Big Data and Cyber Security and Collaboration with premier institute like University of Missouri, Colombia.
- ii) Societal Impact of the Project:
- iii) Student engagement and providing equal opportunity for women with 50% occupancy in the team.
- iv) Involving small Industries and corporate sectors for capacity Building and project Implementation and attracting CSR funding.
- v) Supporting the enhancement of employability and quality of employment and inculcating start up culture and proving earn while learning concept.

1. Evidence of Success

Design Innovation Centre

The following are a few of innovative prototypes developed by Design Innovation Centre:

- Shrimp Feeding Machine and Novel Aerator For Aquaculture
- Hydraulic Ram Pump for Pumping Water In Hilly Areas
- Bike Ambulance for Tribal People
- Weed Detecting Device for Crops
- Automatic Rain Sensing Window
- Bluetooth Operated Screw Jack
- Jack Fruit Processing Machine
- Dehusking Coconut Machine
- Corn Deseeding Machine
- Smart Robotic Device for Rescuing Baby In Bore Well
- Pipe Line Inspection Robot
- Groundnut Shelling Machine
- Automatic Pineapple Peeling Machine
- Electricity From Speed Breakers and Solar Bird Scaring Device

Incubation Centre:

- The project titled “Establishing a Blockchain-based Financial Information Sharing Ecosystem with Intelligent Automation” submitted in collaboration with University of Missouri and Tetrasoft Ltd., as industry partner was awarded US \$44,862 by US Government under “Partnership 2020” grant.
- As evidence of success a good number of innovative prototypes useful to the society are developed by Incubation Centre. The following are only a few of the incubation center ideas converted in to innovative prototypes:

1. A prototype for clustering the crime data for predictive analysis is done for AP Police and tested on road accidents data for East Godavari district.
2. Worked with Kakinada Smart City and East Godavari Police and developed a program for real time traffic management. This software estimates traffic load from CC TV camera images. The green signal will be provided in any directions proportional to the traffic density.
3. Established a 9 node, 8TB Hadoop cluster with the technical support from Tetrasoft Inc. USA, (incubation centre partner)
4. Developed a Covid Patient Tracking System for Kakinada Municipal Corporation. The training on Full Stack Technologies helped the students for the front-end development.

Problems encountered and Resources required

Problems encountered

Students may not have required exposure to directly implement the specific industrial project. It requires additional training beyond the college hours by industry experts. To get the industrial experts beyond the institute working hours to a place like Kakinada is a challenging task. The Infrastructural facilities like installation of Hadoop cluster and bigdata setup needs the help of Industrial experts.

Resources Required:

- SQL Server Big Data Cluster
- AngularJS toolset for building the framework most suited to your application development.
- Apache Hadoop

File Description	Document
Best practices in the Institutional web site	View Document
Any other relevant information	View Document

7.3 Institutional Distinctiveness

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

Response:

1. JNTUK has signed an MoU with Regional cluster group of Universities for Godavari districts to encourage collaborative research among National Institute of Technology, Andhra Pradesh, Dr. Y.S.R. Horticulture University, Tadepalligudem and Adikavi Nannaya University, Rajahmundry.

2. **Examination reforms:** The University is offering various online students services related to the Examination section

online Tracking system for status of Ph. D adjudication

Processing : Online Ph.D. Thesis adjudication stage wise tracking system for Scholars submitted to University has been launched by the University Examination Branch of JNTUK, Kakinada. Ph.D. Scholars and respective Supervisors/ Co-Supervisors desirous of knowing the status can be tracked through the link <https://phdtracking.jntukexams.net/ot>

3. JNTUK is offering **Holistic Education** through the following

•Green Campus Initiatives

•**Nakshtravanam : Nakshatra Vanam CONSISTS OF PLANTS belonging to 27 rare species and representing 27 Nakshatra**

•Open Classroom

•Biodiversity

•Neutralization Tank for Chemistry Laboratory wastage

4. **Capacity Building of Faculty:** Faculty members have visited Stanford University, USA under University Innovation Fellows program(UIF) which helped the capacity building for the faculty. Signed an MoU with Infosys. As a part of this MoU, INFOSYS will conduct the capacity building programmes of the faculty and students of JNTUK in the areas of Big Data, AI, ML, IOT, Data science and other thrust areas. Infosys will train students and faculty to handle real time project in the above areas to enhance the employability, start up culture and to promote industry oriented research.
5. **Exclusive Design Innovation Centre.** Design Innovation Centre was granted by MHRD under the scheme “National Initiative for Design Innovation” to facilitate design-focused research. An MOU was made on 23.03.2016 between the Registrar of JNTUK and the then president of the India acting through the Joint Secretary, MHRD, Govt. of India. JNTUK is among the top 20 institutes across India to get this project. The project has the funding of Rs.10 crores and upto March, 2020. There are 3 collaborators for the project Acharya Nagarjuna University, Guntur , IIIT, Nuzivid and IIIT, RK Valley
6. **Indo-US 21st Century Knowledge Initiatives Grant :** Indo-US 21st Century Knowledge Initiatives Grant formerly known as Obama-Singh 21st Century Knowledge Initiatives Grant has been announced by United States-India Educational Foundation. This grant was awarded to JNTUK and Chicago State University, USA (CSU) in 2015 for promoting University-Industrial cooperation, creativity, diversity and entrepreneurship in computer science under theme education and educational reforms. Under this programme, an amount of Rs 1,25,00,000 has been sanctioned as a grant. The programme facilitates exchange of faculty of the University. As a part of this programme, faculty members of JNTUK, Visited Chicago State University during 2019 for International Training and Study Networking Tour for starting joint M.S Program exploring the possible collaborating with local industries in United States of America and University College of Engineering Kakinada.
7. The project titled “**Establishing a Blockchain- based Financial Information Sharing Ecosystem with Intelligent Automation**” submitted in collaboration with University of Missouri and Tetrasoft Ltd., an industry partner was awarded **US \$44,862 by US Government under “Partnership 2020” grant.**
8. JNTUK established an **exclusive directorate of Faculty Development Centre** with a senior professor as Director. The Directorate plans and organizes the Faculty Development workshops and training programmes for all the faculty of constituent and affiliated colleges of the University in advanced technologies and industry oriented courses.
9. In line with National Educational Policy, the University has made **internship mandatory to all the students in the Revised Curriculum R20** to improve their knowhow and meet the global challenges.
10. An exclusive directorate “**Directorate of Women Empowerment and Grievances**” was constituted by Jawaharlal Nehru Technological University Kakinada to empower and safeguard the rights of female fraternity of the University. It was started to empower female fraternity to recognize their true potentials to attain their own stand in a competing world. The Directorate works to promote gender sensitivity in the University and conduct diverse programmes to educate, sensitize both male and female members, and produce harmonious atmosphere on the campus.
11. To suit the coastal region needs, University already started the Petroleum Engineering, Chemical Engineering and Agricultural Engineering etc. Also in collaboration with APSSDC established Siemens Centres of Excellences (SCE) for providing the training to the unemployed and regular students to enhance the professional skills to suit the industry needs.
12. **Internationalization:** JNTUK has an MOA with Blekinge Institute of Technology, Sweden for

6 years International Collaborative Program (3+1+2) in CSE, ECE & ME and collaborating successfully with BTH since 2009. JNTUK is offering MBA (CMU) collaborative programme with CMU, USA.

13. The University is receiving Funding from Alumni of USA for construction of Platinum Jubilee building and also they had contributed for construction of Indoor Stadium of the University.

14. The Incubation center has developed the software for :

- Covid Patients Tracking
- Health Care Monitoring and Auto Generation of Insurance Claim form using BIG DATA
- Agricultural Advisory Board
- Works Monitoring Dashboard
- East Godavari Road Accident Data Analysis

File Description	Document
Any other relevant information	View Document
Appropriate web in the Institutional website	View Document

5. CONCLUSION

Additional Information :

- **Regional cluster group of Universities:** JNTUK has signed an MoU with Regional cluster group of Universities for Godavari districts to encourage collaborative research among National Institute of Technology, Andhra Pradesh, Dr. Y.S.R. Horticulture University, Tadepalligudem and Adikavi Nannaya University, Rajahmundry.

• **Examination reforms:** The University Examination section is offering online students services, online Tracking system for status of Ph. D adjudication Processing.

Capacity Building of Faculty : In tune with NEP Theme of Capacity Building of Faculty, University has established an exclusive Directorate for Capacity Building of Faculty in the University. Performance evaluation of faculty through API scores. •Student exit feedback on faculty members. Indo-US 21st Century Knowledge Initiatives Grant was awarded to JNTU-K and Chicago State University, USA (CSU) for promoting University-Industrial cooperation, creativity, diversity and entrepreneurship in computer science under theme education and educational reforms with a financial grant of Rs 1.25 Crores. Faculty members have visited Stanford University, CA, USA under University Innovation Fellows program(UIF) which helped the capacity building for the faculty. Signed an MoU with Infosys on 20-03-2022. As a part of this MoU, Infosys will conduct the capacity building programmes of the faculty and students of JNTUK in the areas of Big Data, AI, ML, IOT, Data science and other thrust areas. INFOSYS will train students and faculty to handle real time project in the above areas to enhance the employability, start up culture and to promote industry oriented research. Conducted a series of Summer Faculty Development Programme with eminent faculty drawn from premium institutions to assist faculty in Constituent /Affiliated Engineering colleges for improving their performance in important subjects to enhance basic concepts with exposure based on Outcome Based Education (OBE) in phased manner from 8 semesters of 4 Engineering Faculties (Civil, EEE, ECE, CSE) in 2019.

•JNTUK University has an exclusive Design Innovation Centre.

•JNTUK was granted a Prestigious project, “National Initiative for Design Innovation”, from MHRD, New Delhi with a Financial grant of Rs.10 Crores to facilitate design-focused research.

•JNTUK has an MOA with Blekinge Institute of Technology, Sweden for 6 years International Collaborative Program (3+1+2) in CSE, ECE & ME and collaborating successfully with BTH since 2009.

•JNTUK is offering MBA (CMU) collaborative programme with Central Michigan University, USA

Concluding Remarks :

JNTU Kakinada was established in the year 2008 having 159 affiliated colleges spread over Five coastal districts. University is having the following directorates to monitor and to support University administration

- Director, Academic Planning
- Director, Academic Audit

- Director of Evaluation
- Director of Admissions
- Director, Infrastructure Development and Chief Engineer,
- Director, Incubation & IPR
- Director, Foreign Universities Relations
- Director, University Games & Sports
- Director, Institute of Science and Technology
- Director, Faculty Development Center
- Director, BICS
- Director, Research & Development
- Director, Empowerment of Women & Grievances
- Director, IQAC & Legal Cell
- Director, Industry Institute Interaction Placement and Skill Development
- Director School of Management Studies
- Special Officer, Alumni Relations Cell, JNTUK
- Special Officer, SDC, WDC & DMC
- Special Officer, Pharmacy Courses, JNTUK
- With the help of all the above Directorates the University relentlessly endeavors to provide qualitative and value added education for holistic development of graduates endowed with lifelong learning skills at professional and personal level.
- The University has all the statutory committees such as Executive Council, Standing Committee of Academic Senate, Building Committee, Finance Committee, Boards of Studies and other non-statutory committees that take care of policy decisions related to academic and non-academic activities and their implementation.
- Directorate of IQAC has been contributing significantly to sustain and enhance the quality in all respects of the institution functioning.
- The Directorate of Academic and Planning (DAP) is headed by the Director. It looks after the academic and planning works of the entire university which include preparation of academic calendar, constitution

of board of studies in various disciplines, conduct of BOS meetings, revision of curriculum syllabi and academic regulations from time to time for UG, PG and Research programmes.

- The Directorate of Academic Audit (DAA) is headed by the Director. The directorate is responsible for Conduct of University Purchase Committee meetings to finalize the decision to purchase the Equipment for all the Units of the University. Also forwarding the proposals of all Affiliated Colleges to the UGC for granting the 2(f) & 12(B) Status and Autonomous Status.
- The Directorate of Research and Development is established to promote research activities of JNTU Kakinada, to obtain the funds from UGC, DST, AICTE and other Government organizations/Research organizations/ Autonomous organizations, and to encourage the sponsored research activity by interaction with Industries / Premier educational and Research institutes / organizations. The directorate also monitors and administers the research programs of Ph.D offered by the University in various disciplines.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.1.3	<p>Average percentage of courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the last five years</p> <p>1.1.3.1. Number of courses having focus on employability/ entrepreneurship/ skill development year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>895</td> <td>834</td> <td>753</td> <td>569</td> <td>538</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>850</td> <td>789</td> <td>703</td> <td>524</td> <td>493</td> </tr> </tbody> </table>	2021-22	2020-21	2019-20	2018-19	2017-18	895	834	753	569	538	2021-22	2020-21	2019-20	2018-19	2017-18	850	789	703	524	493
2021-22	2020-21	2019-20	2018-19	2017-18																	
895	834	753	569	538																	
2021-22	2020-21	2019-20	2018-19	2017-18																	
850	789	703	524	493																	
1.3.2	<p>Number of value-added courses for imparting transferable and life skills offered during last five years.</p> <p>1.3.2.1. How many new value-added courses are added within the last five years.</p> <p>Answer before DVV Verification : 70</p> <p>Answer after DVV Verification: 30</p> <p>Remark : Courses offered annually taken once</p>																				
1.4.1	<p>Structured feedback for design and review of syllabus – semester-wise / year-wise is received from</p> <p>1) Students, 2) Teachers, 3) Employers,</p> <p>4) Alumni</p> <p>Answer before DVV Verification : A. All 4 of the above</p> <p>Answer After DVV Verification: A. All 4 of the above</p>																				
2.1.1	<p>Demand Ratio (Average of last five years)</p> <p>2.1.1.1. Number of seats available year wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>1076</td> <td>859</td> <td>1141</td> <td>901</td> <td>803</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	2021-22	2020-21	2019-20	2018-19	2017-18	1076	859	1141	901	803	2021-22	2020-21	2019-20	2018-19	2017-18					
2021-22	2020-21	2019-20	2018-19	2017-18																	
1076	859	1141	901	803																	
2021-22	2020-21	2019-20	2018-19	2017-18																	

2021-22	2020-21	2019-20	2018-19	2017-18
859	859	859	821	803

Remark : As per data provided

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

(Excluding Supernumerary Seats)

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
531	422	561	441	388

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
544	436	576	454	395

Remark : As per data provided by HEI

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 : 2167

Answer after DVV Verification: 2167

2.4.4 Average percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government/Govt. recognised bodies during the last five years

2.4.4.1. Number of full time teachers receiving awards from state /national /international level from Government/Govt. recognized bodies year wise during the last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
19	18	20	18	24

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
6	6	7	3	4

Remark : Considering only state and national awards recognised by govt

2.5.4	<p>Status of automation of Examination division along with approved Examination Manual</p> <p>Answer before DVV Verification : 100% automation of entire division & implementation of Examination Management System (EMS)</p> <p>Answer After DVV Verification: 100% automation of entire division & implementation of Examination Management System (EMS)</p>																				
3.1.6	<p>Percentage of departments with UGC-SAP, CAS, DST-FIST, DBT, ICSSR and other recognitions by national and international agencies (Data for the latest completed academic year)</p> <p>3.1.6.1. The Number of departments with UGC-SAP, CAS, DST-FIST , DBT, ICSSR and other similar recognitions by national and international agencies.</p> <p>Answer before DVV Verification : 7</p> <p>Answer after DVV Verification: 6</p>																				
3.2.1	<p>Extramural funding for Research (Grants sponsored by the non-government sources such as industry, corporate houses, international bodies for research projects) endowments, Chairs in the University during the last five years (INR in Lakhs).</p> <p>3.2.1.1. Total Grants for research projects sponsored by the non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year-wise during the last five years (INR in Lakhs).</p> <p>Answer before DVV Verification:</p> <table border="1" data-bbox="304 1189 1046 1323"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>58.93665</td> <td>58.93665</td> <td>64.26995</td> <td>58.936</td> <td>58.936</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1" data-bbox="304 1402 1046 1536"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>51.55</td> <td>57.635</td> <td>60.936</td> <td>60.936</td> <td>56.021</td> </tr> </tbody> </table>	2021-22	2020-21	2019-20	2018-19	2017-18	58.93665	58.93665	64.26995	58.936	58.936	2021-22	2020-21	2019-20	2018-19	2017-18	51.55	57.635	60.936	60.936	56.021
2021-22	2020-21	2019-20	2018-19	2017-18																	
58.93665	58.93665	64.26995	58.936	58.936																	
2021-22	2020-21	2019-20	2018-19	2017-18																	
51.55	57.635	60.936	60.936	56.021																	
3.2.3	<p>Number of research projects per teacher funded by government and non-government agencies during the last five years</p> <p>3.2.3.1. Number of research projects funded by government and non-government agencies during the last five years.</p> <p>Answer before DVV Verification : 14</p> <p>Answer after DVV Verification: 16</p> <p>3.2.3.2. Number of full time teachers worked in the institution year-wise during the last five years..</p> <p>Answer before DVV Verification : 163</p>																				
3.3.3	<p>Number of awards / recognitions received for research/innovations by the institution / teachers / research scholars / students during the last five years.</p>																				

3.3.3.1. Total number of awards / recognitions received for *research / innovations* won by institution / teachers / research scholars / students year-wise during the last five years.

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
6	3	5	83	2

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
6	3	5	9	2

Remark : As per data

3.4.2 The institution provides incentives to teachers who receive state, national and international recognitions/awards**1. Commendation and monetary incentive at a University function****2. Commendation and medal at a University function****3. Certificate of honor****4. Announcement in the Newsletter / website**

Answer before DVV Verification : A.. All of the above

Answer After DVV Verification: A.. All of the above

3.4.3 Number of Patents published / awarded during the last five years.**3.4.3.1. Total number of Patents published / awarded year-wise during the last five years.**

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
14	6	5	3	3

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
7	6	5	3	3

Remark : As per data provided by HEI

3.4.5 Number of research papers per teachers in the Journals notified on UGC website during the last five years**3.4.5.1. Number of research papers in the Journals notified on UGC website during the last five years.**

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
201	117	146	163	118

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
142	55	71	90	77

Remark : As per data provided by HEI taking publication in UGC CARE / Web of science / SCOPUS /publons

3.4.7 E-content is developed by teachers :

1. For e-PG-Pathshala
2. For CEC (Under Graduate)
3. For SWAYAM
4. For other MOOCs platform
5. Any other Government Initiatives
6. For Institutional LMS

Answer before DVV Verification : B. Any 4 of the above

Answer After DVV Verification: C. Any 3 of the above

Remark : As per data provided by HEI

4.3.1 Percentage of classrooms and seminar halls with ICT - enabled facilities such as LCD, smart board, Wi-Fi/LAN, audio video recording facilities. (Data for the latest completed academic year)

4.3.1.1. Number of classrooms and seminar halls with ICT facilities

Answer before DVV Verification : 57

Answer after DVV Verification: 65

Remark : as revised data provided by HEI

5.1.3 Following Capacity development and skills enhancement activities are organised for improving students capability

1. Soft skills
2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. Awareness of trends in technology

	<p>Answer before DVV Verification : A. All of the above Answer After DVV Verification: A. All of the above</p>																				
5.1.4	<p>The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases</p> <ol style="list-style-type: none"> 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 <p>Answer before DVV Verification : A. All of the above Answer After DVV Verification: A. All of the above</p>																				
5.3.1	<p>Number of awards / medals won by students for outstanding performance in sports / cultural activities at inter-university / state / national / international events (award for a team event should be counted as one) during the last five years.</p> <p>5.3.1.1. Number of awards/medals won by students for outstanding performance in sports / cultural activities at inter-university / state / national / international events (award for a team event should be counted as one) year - wise during the last five years.</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>14</td> <td>2</td> <td>11</td> <td>4</td> <td>2</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>8</td> <td>2</td> <td>11</td> <td>4</td> <td>2</td> </tr> </tbody> </table>	2021-22	2020-21	2019-20	2018-19	2017-18	14	2	11	4	2	2021-22	2020-21	2019-20	2018-19	2017-18	8	2	11	4	2
2021-22	2020-21	2019-20	2018-19	2017-18																	
14	2	11	4	2																	
2021-22	2020-21	2019-20	2018-19	2017-18																	
8	2	11	4	2																	
6.2.3	<p>Institution Implements e-governance covering following areas of operation</p> <ol style="list-style-type: none"> 1. Administration 2. Finance and Accounts 3. Student Admission and Support 4. Examination <p>Answer before DVV Verification : A. All of the above Answer After DVV Verification: A. All of the above</p>																				
6.3.2	<p>Average percentage of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the last five years.</p> <p>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</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	2021-22	2020-21	2019-20	2018-19	2017-18															
2021-22	2020-21	2019-20	2018-19	2017-18																	

1	34	53	44	45
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Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
1	34	49	41	42

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).**

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
60	74	81	63	59

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
50	59	56	51	46

Remark : As per data provided

6.4.2 **Funds / Grants received from government bodies during the last five years for development and maintenance of infrastructure (not covered under Criteria III and V) (INR in Lakhs).**

6.4.2.1. **Total Funds / Grants received from government bodies for development and maintenance of infrastructure (not covered under Criteria III and V) year wise during the last five years (INR in Lakhs).**

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
0	0	2000	0	700

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
0	0	2282.13	228.71	55.23

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

6.4.3.1. Total Grants received from non-government bodies, individuals, Philanthropers year wise

during the last five years (INR in Lakhs)

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
191.9446 1	36.54044	68.56494	590.8930 8	88.87913

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
186.944	209.75	65.838	556.493	88.87913

Remark : As per data provided

6.5.2	<p>Institution has adopted the following for Quality assurance</p> <ol style="list-style-type: none"> 1. Academic Administrative Audit (AAA) and follow up action taken 2.Confernces, Seminars, Workshops on quality conducted 3. Collaborative quality initiatives with other institution(s) 4.Orientation programme on quality issues for teachers and students 5. Participation in NIRF 6.Any other quality audit recognized by state, national or international agencies (ISO Certification, NBA). <p>Answer before DVV Verification : A. Any 5 or more of the above Answer After DVV Verification: A. Any 5 or more of the above</p>
7.1.10	<p>The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.</p> <ol style="list-style-type: none"> 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 <p>Answer before DVV Verification : A. All of the above Answer After DVV Verification: A. All of the above</p>

2.Extended Profile Deviations

ID	Extended Questions
1.1	Number of eligible applications received for admissions to all the programs year-wise during last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
28650	23890	32310	24310	22440

Answer After DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
22140	23890	23850	21910	22440

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
633	516	667	538	482

Answer After DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
691	564	728	589	528