YEARLY STATUS REPORT - 2020-2021

Part A

Data of the Institution

1.Name of the Institution

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

- Name of the Head of the institution

  Prof. M.Ramalinga Raju

- Designation

  Vice-Chancellor

- Does the institution function from its own campus?

  Yes

- Phone no./Alternate phone no.

  08842300900

- Mobile no

  9676183355

- Registered e-mail

  registrar@jntuk.edu.in

- Alternate e-mail address

  vc@jntuk.edu.in

- City/Town

  Kakinada

- State/UT

  Andhra Pradesh

- Pin Code

  533003

2.Institutional status

- University

  State

- Type of Institution

  Co-education

- Location

  Urban

- Name of the IQAC Co-ordinator/Director **Dr. N. Balaji**

- Phone no./Alternate phone no **08842300900**

- Mobile **9502441555**

- IQAC e-mail address **diqacjntuk@gmail.com**

- Alternate Email address **prof.balaji.ece@gmail.com**

3.Website address (Web link of the AQAR (Previous Academic Year)

https://www.jntuk.edu.in/wp-content/uploads/2022/01/JNTUK-AQAR-2019-20-4.pdf

4.Whether Academic Calendar prepared during the year?

Yes

- if yes, whether it is uploaded in the Institutional website Web link:

https://www.jntuk.edu.in/wp-content/uploads/2021/01/Academic-Calendars-2020-21.pdf

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	**B+**	**2.6**	**2017**	**02/05/2017**	**01/05/2021**

6.Date of Establishment of IQAC **30/07/2017**

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

Institution/ Department/Faculty	Scheme	Funding agency	Year of award with duration	Amount
Nil	**Nil**	**Nil**	**Nil**	**Nil**

8.Whether composition of IQAC as per latest NAAC guidelines

No

- Upload latest notification of formation of IQAC

[View File]

9.No. of IQAC meetings held during the year **0**

- The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website.

No

(Please upload, minutes of meetings and
action taken report)

- (Please upload, minutes of meetings and   No File Uploaded
  action taken report)

10.Whether IQAC received funding from any   **No**
of the funding agency to support its activities
during the year?

- If yes, mention the amount

11.Significant contributions made by IQAC during the current year (maximum five bullets)

1. Started new course: B.Tech(Food Engineering) from the academic year 2020-21. 2. A new directorate for Entrepreneurship, Innovations and start-ups (EISC) is established in the university and the directorate is coordinating with the affiliated/constituent colleges for the setting up Entrepreneurship Innovations and Start-Ups Centers in their respective colleges. 3. With the encouragement from IQAC, the faculty member has submitted the project titled "Establishing a Blockchain-based Financial Information Sharing Ecosystem with Intelligent Automation" in collaboration with University of Missouri and Tetrasoft Ltd., as industry partner was awarded US $44,862 by US Government under "Partnership 2020" grant. 4.Organized Board of studies meetings on 19 to 21 and 22 to 24 March 2021 to finalize III and IV year B.Tech Syllabi of R19 Regulations and II year B.Tech course structure and detailed syllabi of R20 Regulations. Minor courses and honor courses are introduced in R19 and R20 curriculum •Established a 9 node, 8TB Hadoop cluster with the Technical support from Tetrasoft Inc. USA, (incubation center partner) • 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. Institute of Science and Technology has conducted Field-Outreach programmes to explore (i) Production of Biogas from organic Waste, (ii) Energy generation from Waste. b. Awareness Program on Environmental Health & Safety

12.Plan of action chalked out by the IQAC in the beginning of the Academic year towards
Quality Enhancement and the outcome achieved by the end of the Academic year

Plan of Action	Achievements/Outcomes
To start new UG programme in Food Engineering to suit the food processing industry requirement	New UG programme in Food Engineering is started to suit the food processing industry requirement
Planning to revise the curriculum with more flexible,student centric and choice based credit system in Syllabus Revision of 2020(R20) in line with National Educational Policy	Revised the curriculum with more flexible, student centric and choice based credit system in Syllabus Revision of 2020(R20)
In line with NEP, planning to make internship mandatory to all the students in the curriculum to meet the global challenges.	Internship is made mandatory to all the students in the new curriculum
Village adoption programme through NSS unit of JNTUK to ensure continuity of work vis-a-vis sustained action, evaluation and follow up work.	Under the Village adoption programme 138 No. of Villages/Slums are adopted and the volunteer strength of 17271 is registered

13.Whether the AQAR was placed before statutory body?   No

- Name of the statutory body

Name	Date of meeting(s)
Nil	Nil

14.Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to Assess the functioning?   Yes

15.Whether institutional data submitted to AISHE

Part A

Data of the Institution

1.Name of the Institution	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
• Name of the Head of the institution	Prof. M.Ramalinga Raju
• Designation	Vice-Chancellor
• Does the institution function from its own campus?	Yes
• Phone no./Alternate phone no.	08842300900
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• Upload latest notification of formation of IQAC	View File
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• (Please upload, minutes of meetings and	No File Uploaded

action taken report)		
10.Whether IQAC received funding from any of the funding agency to support its activities during the year?	**No**	
• If yes, mention the amount		

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15.Whether institutional data submitted to AISHE

Year	Date of Submission
2020	27/02/2020

16.Multidisciplinary / interdisciplinary	
17.Academic bank of credits (ABC):	
18.Skill development:	
19.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)	
20.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):	
21.Distance education/online education:	

Extended Profile

1.Programme	
1.1 Number of programmes offered during the year:	**52**
1.2 Number of departments offering academic programmes	**18**
2.Student	
2.1 Number of students during the year	**5019**
2.2 Number of outgoing / final year students during the year:	**1089**
2.3 Number of students appeared in the University examination during the year	**5019**

2.4 Number of revaluation applications during the year	**496**
3.Academic	
3.1 Number of courses in all Programmes during the year	**1200**
3.2 Number of full time teachers during the year	**287**
3.3 Number of sanctioned posts during the year	**0**
4.Institution	
4.1 Number of eligible applications received for admissions to all the Programmes during the year	**1567**
4.2 Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	**870**
4.3 Total number of classrooms and seminar halls	**168**
4.4 Total number of computers in the campus for academic purpose	**1462**
4.5 Total expenditure excluding salary during the year (INR in lakhs)	**334.5532**
Part B	
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 University

JNTUK has designed the Revised RegulationCurriculum2020 (R20) Intune 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 Honors or a B.Tech. with a Minor.

Curricula developed and implemented relevant to the local needs: To suit to the local needs, the university is offering undergraduate courses (B. Tech) in petrochemical and petroleum engineering and Post graduate programmes (M. Tech) inPetrochemical Engineering, Petroleum Engineering and Pipeline Engineering.

Curricula developed and implemented relevant to the national needs: To suit to the national needs, the university has introduced the programmeof 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.

Curricula developed and implemented relevant to the Global needs:To suit to the national needs, the university has introduced the programme

File Description	Documents
Upload relevant supporting document	[View File](#)

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

31

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	No File Uploaded

1.1.3 - Total number of courses having focus on employability/ entrepreneurship/ skill development offered by the University during the year

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

986

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced of the total number of courses across all programs offered during the year

180

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

1.2.2 - Number of Programmes in which Choice Based Credit System (CBCS)/elective course system has been implemented during the year

42

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

1.3 - Curriculum Enrichment

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

As part of improving Human Values in 2013 theUniversity has initiatedand introducedProfessional Ethics andHuman Values at UG levelB.Tech I year II SEMESTERas a subject inthe curriculum for allthe constituent andaffiliated colleges ofJNTUK spread across 8districts of AndhraPradesh State.

In the Revised curriculum2020 (R20)the Universityhas made theCourses like Environmental Sciences, Universal Human Values,

Ethics, Indian Constitution, Essence of Indian Traditional Knowledge etc., as mandatory Courses . Environmental Sciences is to be offered compulsorily as mandatory course for all branches.

Human values and Ethics are collapse now a day's this is very important in Student daily livings. Human values play a big role in Students life settle for a better future. Professional Ethics and Human values is very relevant subject of today's Environment of conflicts and stress in the profession with obligation to be met by one person to many directions.

The University organized as part of Academic Calendar activities such as Swatch Bharath Abhiyan, International Women's Day, Blood Donation Camps, etc. For the promotion of Universal values, Human values and National Integration.

File Description	Documents
Upload relevant supporting document	[View File](#)

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

65

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	No File Uploaded

1.3.3 - Total number of students enrolled in the courses under 1.3.2 above

1.3.3.1 - Number of students enrolled in value-added courses imparting transferable and life skills offered during the year

1403

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	No File Uploaded

1.3.4 - Number of students undertaking field projects / research projects / internships during

the year

1089

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

1.4 - Feedback System

1.4.1 - Structured feedback for design and review of syllabus – semester wise / is received from Students Teachers Employers Alumni	• **Any 3 of the above**

File Description	Documents
Upload relevant supporting document	View File

1.4.2 - Feedback processes of the institution may be classified as follows	• **Feedback collected, analysed and action taken and feedback available on website**

File Description	Documents
Upload relevant supporting document	View File

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Demand Ratio

2.1.1.1 - Number of seats available during the year

1256

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

2.1.2 - Total number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per applicable reservation policy during the year (Excluding Supernumerary Seats)

2.1.2.1 - Number of actual students admitted from the reserved categories during the year

991

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses the learning levels of the studentsand organises special Programmes for advanced learners and 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.

For advanced learners value added cources are suggested and offered.For advanced learners Minor/Hounours are offered and students are persuing Minor/Honours or and MOOCS cources.

Also, Advanced learners are given opportunities to be part of innovative projects at university innovation/incubation centres.

File Description	Documents
Upload relevant supporting document	**No File Uploaded**
Link For Additional Information	**Nil**

2.2.2 - Student - Full time teacher ratio during the year

Number of Students	Number of Teachers
1268	**287**

File Description	Documents
Upload relevant supporting document	View File

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

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

2.The students will be encouraged to enhance theirexperiential 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.

File Description	Documents
Upload relevant supporting document	[View File](#)

2.3.2 - Teachers use ICT enabled tools including online resources for effective teaching and learning processes during the year

The college has prioritized use of ICT in teaching -learning. Preparation of e-resources in various subjects in the form of PPTs, digital material, and top resource links has created a repository of knowledge, available to students in the departments and in the library. Staff rooms and Central library have networked internet connections. Campus is wi-fi enabled. Classes, seminars, guest lectures, etc. using LCD projectors are conducted in available science laboratory spaces, and in AV Hall, Seminar Hall and the College auditorium, as needed.

Some teachers now use of modern methods of teaching learning, such as Google sites and Google classroom, to implement 'flipped learning', posting and receiving assignments, post educational

resources and materials, Google forms to evaluate students, etc.

The presence of Information and Communication Technology (ICT) undoubtedly allows new ways of learning for students and teachers and helps the latter to interact with students.

The academic year 2020-2021 was completely affected by Covid-19 pandemic and therefore it was not only the choice but also the compulsion of the teachers to learn, adopt and practice the ICT enabled tools. The use of laptops and internet became a common practice not only for the teachers but also for the students.

File Description	Documents
Upload relevant supporting document	View File

2.3.3 - Ratio of students to mentor for academic and other related issues during the year

2.3.3.1 - Number of mentors

226

File Description	Documents
Upload relevant supporting document	View File

2.4 - Teacher Profile and Quality

2.4.1 - Total Number of full time teachers against sanctioned posts during the year

287

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

2.4.2 - Total Number of full time teachers withPh.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit. during the year

108

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

2.4.3 - Total teaching experience of full time teachers in the same institution during the year

2.4.3.1 - Total experience of full-time teachers

2307

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

2.4.4 - Total number of full time teachers who received awards, recognition, fellowships at State, National, International level from Government/Govt. recognised bodies during the year

11

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

2.5 - Evaluation Process and Reforms

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

25

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 year

25

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

2.5.2 - Total number of student complaints/grievances about evaluation against total number appeared in the examinations during the year

0

File Description	Documents
Upload relevant supporting document	[View File](#)

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

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.

File Description	Documents
Upload relevant supporting document	[View File](#)

2.5.4 - Status of automation of Examination division along with approved Examination Manual	B. Only student registration, Hall ticket issue & Result Processing

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

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

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

File Description	Documents
Upload relevant supporting document	View File

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

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 Universityassesses the direct attainment of each Course Outcome (CO) with Programme Outcomes (PO) and Programme Specific Outcomes (PSOs) using the following formula:

File Description	Documents
Upload relevant supporting document	[View File](#)

2.6.3 - Number of students passed during the year

2.6.3.1 - Total number of final year students who passed the university examination during the year

947

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	No File Uploaded

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a web link)

https://sites.google.com/a/jntucek.ac.in/jntucek_vice-principal/links-for-feedback-forms

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

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

The University provides all necessary infrastructural facilities and a conductive 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 Uchchatar 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.

File Description	Documents
Upload relevant supporting document	View File

3.1.2 - The institution provides seed money to its teachers for research (amount INR in Lakhs)

0

File Description	Documents
Upload the data template	**No File Uploaded**
Upload relevant supporting document	**No File Uploaded**

3.1.3 - Number of teachers receiving national/ international fellowship/financial support by various agencies for advanced studies/ research during the year

0

File Description	Documents
Upload the data template	**No File Uploaded**
Upload relevant supporting document	**No File Uploaded**

3.1.4 - Number of JRFs, SRFs, Post-Doctoral Fellows, Research Associates and other research fellows enrolled in the institution during the year

1

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

3.1.5 - Institution has the following facilities to support research Central Instrumentation Centre Animal House/Green House Museum Media laboratory/Studios Business Lab Research/Statistical Databases Moot court Theatre Art Gallery	**E. None of the above**

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

3.1.6 - Number of departments with UGC-SAP, CAS, DST-FIST, DBT, ICSSR and other recognitions by national and international agencies during the year

0

File Description	Documents
Upload the data template	**No File Uploaded**
Upload relevant supporting document	**No File Uploaded**

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 year (INR in Lakhs)

9.5

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

3.2.2 - Grants for research projects sponsored by the government agencies during the year (INR in Lakhs)

37.32

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

4

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

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

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 and GUI need to be developed.

File Description	Documents
Upload relevant supporting document	[View File](#)

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

12

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

12

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	No File Uploaded

3.3.3 - Number of awards / recognitions received for research/innovations by the institution/teachers/research scholars/students during the year

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

11

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

3.4 - Research Publications and Awards

3.4.1 - The institution ensures implementation of its stated Code of Ethics for research

3.4.1.1 - The institution has a stated Code of Ethics for research and the implementation of which is ensured through the following 1. **Inclusion of research ethics in the research methodology course work** 2. **Presence of institutional Ethics committees (Animal, chemical, bio-ethics etc)** 3. **Plagiarism check** 4. **Research Advisory Committee**	**B. Any 3 of the above**

File Description	Documents
Upload relevant supporting document	[View File](#)

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

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

3.4.3 - Number of Patents published/awarded during the year

3.4.3.1 - Total number of Patents published/awarded year wise during the year

22

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

3.4.4 - Number of Ph.D's awarded per teacher during the year

3.4.4.1 - How many Ph.D's are awarded during the year

64

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

3.4.5 - Number of research papers per teacher in the Journals notified on UGC website during the year

334

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

3.4.6 - Number of books and chapters in edited volumes published per teacher during the year

3.4.6.1 - Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings during the year

67

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

3.4.7 - E-content is developed by teachers For e-PG-Pathshala For CEC (Under Graduate) For SWAYAM For other MOOCs platform For NPTEL/NMEICT/any other Government Initiatives For Institutional LMS	E. None of the above

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

3.4.8 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

Scopus	Web of Science
380	**Nil**

File Description	Documents
Any additional information	[View File](#)
Bibliometrics of the publications during the year	[View File](#)

3.4.9 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

Scopus	Web of Science
10	**Nil**

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	[View File](#)
Any additional information	**No File Uploaded**

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

JNTUK has a consultancy policy and it encourages its faculties to undertake personal consultancy testing projects and corporate training. Rules regarding consultancy have been framed and revenue sharing general consultancy rules, scope of consultancy offered and standard terms and conditions are included in Consultancy policy.

Consultancy services are offered to industries, service sector, Government department and other national and international area in the expertise available in the University. The services are offered along the lines of professional services.

Consultancy Services cover varieties of activities such as Feasibility Studies, Technological Assessment; Assessment of Design and Current manufacturing process; Material energy, Environmental and manpower Audits, Product design and process Development, Software Development, General Trouble shooting, retrofitting exercises, Intensive efforts for transfer of highly focused skill and expertise to select groups in specific organizations, Vision and strategy statement so on.

Testing and evaluation services are offered in selected specialized area. All types of consultancy services offered on the basis of facilities available in the institute.

Revenue sharing is done as follows:

Type of consultancy

University sharing

Personal Consultancy sharing

Personal

20%

80%

Testing projects

40%

60%

Corporate training

20%

80%

Note: Share excluding service tax and GST

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

3.5.2 - Revenue generated from consultancy and corporate training during the year (INR in Lakhs)

3.5.2.1 - Total amount generated from consultancy and corporate training during the year (INR in lakhs)

20.01

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

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 year

The college organizes a number of extension activities to promote institute-neighbourhood community to sensitize the students towards community needs. The students of our college actively participate in social service activities leading to their overall development. The college runs effectively National Service Scheme and National Cadet Corps Units. Through these units, the college undertakes various extension activities in the neighbourhood community.

Other than NSS and NCC units, the various departments of the college is conscious about its responsibilities for shaping

students into responsible citizens of the country by making students aware of social issues through various programmes like Environmental Awareness, Personal Health and Hygiene, Diet awareness, Road Safety, Tree Plantation, Soil and Water Testing, Plastic eradication, No vehicle day.

All these mentioned activities have positive impact on the students and it developed student community relationship, leadership skill and self-confidence of students. It also helped in cultivating hidden personality of students and created awareness among students.

The academic year 2020-2021 was completely affected by Covid-19 pandemic therefore no activities were conducted under NSS and NCC units in the campus.

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

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 year

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

13

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

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

11

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

3.6.4 - Total number of students participating in extension activities listed at 3.6.3 above during the year

748

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

3.7 - Collaboration

3.7.1 - Number of collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students during the year

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

5

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

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 year

11

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

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.

The Universityhas 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.mtrs. There are various Departments having spacious class-rooms with proper infrastructure in the college.The College has one sixty eight(168) Classrooms, comprising of large classrooms with seating capacity (90) students,medium size classrooms with seating capacity of fifty(50) students. .RO filtered water facility is made available for teaching, non-teachin students. For security and safety college has fixed up CCTV cameras and Labs as learning resour college has well-furnished library with text books, reference books.The Universityplay-ground have modern indoor stadium andIndoor Games Room for Carroms and chess is available .Table Tennis Facilities, Rooms & 50 Bedded Dormitory 10 Lane 400 Mtrs standard Gravel Track with permanent throwing sectors and Long jump / Triple jump pits Cricket Nets With Bowling Machine also available.Basic amenities on college premises include separate staff and student parking, canteen, drinking water coolers, first-aid, solar energy generation, CCTV cameras for security,separate washrooms for men, ladies, boys, and a girls' common room.

File Description	Documents
Upload relevant supporting document	[View File](#)

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

The University is extensively promoting sports and games 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.

The University has an Exclusive directorate "University Games & Sports", headed by a Director (Professor of Civil Engineering) supported by Secretary, Sports Council (Assistant Professor of Physical Education, UCEK), Secretary & Assistant Professor of Yoga

(Contract).

Recently AICTE has granted Rs. 6, 50,000/- (Rupees six lakhs fifty thousand only) for Faculty Development Programme (FDP) for Sports Faculty.

The ground staff regularly maintain the ground by regularly mowing the grass, watering thedry areas, levelling the ground, marking of the play fields, maintaining turf wickets, weeding,pest control, edging of sidewalk on weekly basis during growing season and preparingground for practice matches and tournaments. They also take care of electric equipment in thesports office/ gym/ changing room and sports store room like tube lights, fans, cooler

File Description	Documents
Upload relevant supporting document	[View File](#)

4.1.3 - Availability of general campus facilities and overall ambience

The Universityhas made rapid strides since its formation and is playing a pivotal role in the technological advances of the region. AThe Research and Development activity in the Universitygot a boost with the procurement of modern and sophisticated equipment under MHRD, AICTE and TEQIP schemes.The fully automated Central Library is situated in a separated block housing more than 75,000 volumes and contributed 314 numbers of journals maintained by two qualified librarians and necessary supporting staff for 12hrs a day for 6 days and 9:00 a.m to 1.00 pm on Sunday. In addition, a book-bank with more than 3000 volumes is at the disposal of students for borrowing by BC, SC and ST categories.1979-83 Alumni Auditorium has been constructed on the campus. A sports complex of worth Rs. 4 crores is near completion. In addition to National Cadet Corps (NCC) and National Social Service (NSS) units, there are also technical clubs, a few student wings of professional bodies like the student chapter of IEEE and CSI. The college provides medical facilities on the campus through a dispensary with a medical officer deputed by the Government of Andhra Pradesh and the supporting staff provided by the college.

File Description	Documents
Upload relevant supporting document	[View File](#)

4.1.4 - Total expenditure excluding salary for infrastructure augmentation during the year (INR in Lakhs)

10.64654

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

4.2 - Library as a Learning Resource

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

Partially automated

File Description	Documents
Upload relevant supporting document	View File

4.2.2 - Institution has subscription for e-Library resources Library has regular subscription for the following: e – journals e-books e-ShodhSindhu Shodhganga Databases	**C. Any 2 of the above**

File Description	Documents
Upload relevant supporting document	View File

4.2.3 - Annual expenditure for purchase of books/ e-books and subscription to journals/e-journals during the year (INR in Lakhs)

84.91

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

4.2.4 - Number of usage of library by teachers and students per day (foot falls and login data for online access)

2000

File Description	Documents
Upload relevant supporting document	View File

4.3 - IT Infrastructure

4.3.1 - Number of classrooms and seminar halls with ICT - enabled facilities such as LCD, smart board, Wi-Fi/LAN, audio video recording facilities during the year

125

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

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

The Institute has a robust and vibrant IT policy. The policy aims at providing uninterrupted services to all stakeholders .viz. faculty, officers. staff and students.The Institution has sufficient number of computers with Internet and Wi-Fi connection. The students as well as the faculty members have the liberty to utilize these facilities as per the rules and regulations of the institution. The office as well as the Library computers are provided LAN facility and are installed withappropriate software.Training programs for staff and students are conducted to enhance their skill on e-Governance, networking and related topics. The management has been substantially augmenting the infrastructural support to update the IT facilities in the college. During lockdown period institution has upgraded its teaching to online mode using Microsoft Team.

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

4.3.3 - Student - Computer ratio during the year

Number of students	Number of Computers available to students for academic purposes
5019	**1462**

4.3.4 - Available bandwidth of internet connection in the Institution (Leased line)	• **?1 GBPS**

File Description	Documents
Upload relevant supporting document	[View File](#)

4.3.5 - Institution has the following Facilities for e-content development Media centre Audio visual centre Lecture Capturing System(LCS) Mixing equipment's and softwares for editing	**E. None of the above**

File Description	Documents
Upload relevant supporting document	**No File Uploaded**
Upload the data template	**No File Uploaded**

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Total expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component during the year

Rs/-2,00,17,860

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

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.

There are well developed procedures for this where all stakeholders are involved. The procedures involve labelling all college files, stock register maintenance, signing of annual maintenance contracts and delegating responsibilities for actual maintenance/utilization of college facilities. Students are given proper instructions for usage of the equipment, books etc. Central purchase and stock verification committee ensures that purchases follow the right procedures and that stock verification takes place periodically. Library maintenance is carried out by librarian and her team who ensures good condition of books, regular book binding, and removal of old books; laboratories are regularly maintained by the Laboratory attendant and lab

assistants; computers, UPS, Softwares and LCDs are maintained by technicians, Lab Assistants, and TICs; safai karamcharis and Lab attendants clean rooms/labs; Director of Physical Education, Sports committee and support staff look after the sports facilities while gardeners are assigned for the upkeep of the gardens.

File Description	Documents
Upload relevant supporting document	View File

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Total number of students benefited by scholarships and free ships provided by the institution, Government and non-government agencies (NGOs) during the year (other than the students receiving scholarships under the government schemes for reserved categories)

1293

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

5.1.2 - Total number of students benefited by career counselling and guidance for competitive examinations offered by the Institution during the year

304

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

5.1.3 - Following Capacity development and skills enhancement initiatives are taken by the institution Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) Awareness of trends in technology	A. All of the above

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

5.1.4 - The Institution adopts the following for redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organisation wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees	• **Any 3 of the above**

File Description	Documents
Upload relevant supporting document	View File

5.2 - Student Progression

5.2.1 - Number of students qualifying in state/ national/ international level examinations during the year (eg:NET/SLET/GATE/GMAT/CAT/ GRE/TOEFL/Civil Services/State government examinations)

5.2.1.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

167

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

5.2.2 - Total number of placement of outgoing students during the year

556

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

5.2.3 - Number of recently graduated students who have progressed to higher education (previous graduating batch) during the year

28

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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 year

28

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

5.3.2 - Presence of Student Council and its activities for institutional development and student welfare

There is no formal student council in the university as the student council elections are not allowed by the state government. However to increases students participation in academic and other related areas the university encourages students to take active part in various activities of the university.

The active participation of students is encouraged in the management of hostel activities .Student acts as volunteers during convocation and other major events in the university .Students help in organising seminar workshops and conferences .They are participating in public function ,cultural activity, sports, debates and various competitions. Students represent the university at State, National and International level

competitions.

Students are also allowed to give their feedback in mentor groups about teaching learning process and other activities of department in the university. Students are allowed to register their grievances and interact freely with the faculty members if they have any problems. They can suggest or complain regarding curriculum, support services and any other unfulfilled requirements.

File Description	Documents
Upload relevant supporting document	[View File](#)

5.3.3 - Number of sports and cultural events / competitions organised by the institution during the year

10

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

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 during the year

This association registered in Kakinada is the headquarters for all chapters of old students of the College from 1946 through now. There are formal or informal chapters in Hyderabad, Chennai, Vijayawada, Visakhapatnam, Bengaluru and USA. The Aim and Objective of the Association is to promote fraternity among the Alumni of University College of Engineering, Kakinada (UECK) through fostering the Cultural, Technical, Professional and Welfare activities.Monetary help is rendered by prominent alumni and with these funds, a multi-utility building has come up and it is housing the Training & Placement office, an educational centre "Mana TV". Our Alumni are helping the College in many respects. Annual awards for "Best Teacher" and "Best outgoing student" have been introduced by two alumni. Many alumni and faculty have instituted gold medals for top students in many branches.Every year, theUCEKinducts all the outgoing students into ECOSAK. All the alumni of UCEK are members of the Association. The membership in ECOSAK is free and any alumni can register themselves into the

Association on the web site. There will be at least 15,000 Alumni of our college spread throughout the world. There may be at least 3,000 alumni living in and around Hyderabad.

File Description	Documents
Upload relevant supporting document	[View File](#)

5.4.2 - Alumni contribution during the year (INR in Lakhs)	A. ? 5Lakhs

File Description	Documents
Upload relevant supporting document	[View File](#)

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

Vision

To be a premier institute of excellence developing highly talented holistic human capital that contributes to the nation through leadership in technology and innovation through engineering education.

Mission

1. To impart Personnel Skills and Ethical Values for Sustainable Development of the Nation.

2. To create Research & Industry oriented centers of excellence in all engineering disciplines.

3. To be a renowned IPR generator and repository for innovative technologies.

4. To develop Research and Industry oriented technical talent.

5. To benchmark globally the academic & research output.

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

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

The University advocates the practice of decentralization and participative management not only in words but also in action.

Decentralization management:Departments of the institution are given full academic autonomy and administrative authority. However, the departments are given financial autonomy to a limited extent. Academic related matters such as attendance of students, setting of internal test question papers, conduction and evaluation of internal test, design and development of question bank, detailsof eligible external examiners etc. are done independently by the departments. Appointment of teaching and nonteaching staff, promotion/increment of department employees, leave related matters, subject, preparation of course material, monitoring syllabus coverage, counselling, arranging special classes for slow learners etc. are done independently by departments. Departments are provided with full autonomy to plan and organize Short Term Programs, conferences, seminars, industrial visits; institute-industry interaction etc. budgets prepared by the depart cover the expenses of above said activities are generally approved by the principal and the top management. Departments are given autonomy to prepare the estimates for future expansion of the departments includes infrastructure, laboratory equipment's, computers, furniture, man power requirement

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic plan is effectively deployed

The institution has successfully deployed its entire strategic plan in an efficient manner. Facilities like better physical infrastructure, library with digital learning resources, student's amenities centre and incubation centre,centre of Excellence, indoor stadium and gymnasium the Strategy deployed is the academic

plan of the institute under which various committees are which addresses the quality of both academic and extra-curricular activities. Many academic policies are designed by the IQAC, and executed through various committees. Through these committeesthe institute has continuously worked for the enhancement and improvement of academic function according to changing demands and requirements.

As per the UGCrevised guidelines, dt. 19.1.2018, College established/have the following committees to ensure proper management of academic, financial and general administrative affairs.

The following are statutory bodies in the UCEK(A) College:

1. **Governing body**
2. **Academic council**
3. **Board of studies**
4. **finance committee**

File Description	Documents
Upload relevant supporting document	[View File](#)

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

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.

Administrative Profile of Jawaharlal Nehru Technological University Kakinada (JNTUK)

The Governor of Andhra Pradesh is the Chancellor of the University. The Vice-Chancellor is the Principal Academic and Executive Officer of the University. The Executive Council of the University is the Highest Body mainly concerned with the overall management of the University. Members of this council are drawn from the Government, Industry and Academicians from within the University and experts from outside. The Vice-Chancellor of the University is the Chairman of the Executive Council.

File Description	Documents
Upload relevant supporting document	[View File](#)

6.2.3 - Institution Implements e-governance in its areas of operations

6.2.3.1 - e-governance is implemented covering following areas of operation 1. Administration 2. Finance and Accounts 3. Student Admission and Support 4. Examination	**A. All of the above**

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

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

Annual Performance Appraisal Report (APAR) Another measure to assess faculty is by means of the APAR submitted at the end of every academic cycle. The objective of the APAR is to highlight faculty member's role and performance for the past year and it also summarizes the expectations from the faculty for future development. The reporting authority reviews the nature and quality of work faculty performed annually based on the parameters such as knowledge of sphere of work, analytical ability, initiative taken, ability to inspire and motivate, supervisory ability, inter-personal relations, and teamwork. Feedback received from students are further considered and incorporated in decision making process for continuous improvement.

File Description	Documents
Upload relevant supporting document	View File

6.3.2 - Total number of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

10

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

6.3.3 - Number of professional development / administrative training Programmes organized by the institution for teaching and non-teaching staff during the year

06

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

6.3.4 - Total number of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the year(Professional Development Programmes, Orientation / Induction Programmes Refresher Course, Short Term Course)

21

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

6.4 - Financial Management and Resource Mobilization

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

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.

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

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

NIL

File Description	Documents
Upload the data template	**No File Uploaded**
Upload relevant supporting document	**No File Uploaded**

6.4.3 - Funds / Grants received from non-government bodies, individuals,philanthropists during the year for development and maintenance of infrastructure (not covered under Criteria III and V)(INR in Lakhs)

14.06

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	[View File](#)

6.4.4 - Institution conducts internal and external financial audits regularly

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	Documents
Upload relevant supporting document	No File Uploaded

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

Jawaharlal Nehru Technological University 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 Heads of the departments 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 Board of Studies(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.

To suit the coastal region needs, University already started the Petroleum Engineering, Chemical Engineering and Agricultural Engineering etc

University launched new UG and PG programmes in the emerging areas such as ML, AI, Data Science, Block Chain Technologies, IoT etc. from AY 2020-21 and started a New UG programme B.Tech in Food Engineering to suit the food processing industry requirement.

File Description	Documents
Upload relevant supporting document	View File

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

B. Any 4 of the above

File Description	Documents
Upload the data template	View File
Upload relevant supporting documment	View File

6.5.3 - Incremental improvements made for the preceding during the year with regard to quality (in case of first cycle) Post accreditation quality initiatives(second and subsequent cycles)

1) Effective Curriculum revision and Implementation as per University Grants Commission (UGC), NEP, and Andhra Pradesh State Council of Education (APSCHE)

As a quality measure and in line with the direction of University Grants Commission (UGC), NEP, Andhra Pradesh State Council of Education (APSCHE) JNTUK has adopted Choice Based Credit System (CBCS) for all its Constituent and affiliated colleges and units

1) A three-week induction program is mandatory for all first year UG students and shall be conducted as per AICTE/UGC/APSCHE guidelines.

2) Student is introduced to "Choice Based Credit System (CBCS)".

3) 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)

4) All the registered credits will be considered for the calculation of final CGPA.

5) Each semester has - 'Continuous Internal Evaluation (CIE)' and 'Semester End Examination (SEE)'. Choice Based Credit System (CBCS) and Credit Based Semester System (CBSS) as indicated by UGC and course structure as suggested by AICTE are followed.

File Description	Documents
Upload relevant supporting document	[View File](#)

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 year

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. 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. It works for the welfare of the students and faculty towards preparing them into competent professionals to take up greater challenges in the academic sphere.

Main focus is to bring progress, develop and empower women inHigher Education, Research and Health.

- **Promoting women's advancements in research, academia and leadership.**
- **Equal Opportunity Cell for conducting free coaching classes for competitive examinations like APGENCO and GATE etc.**
- **Preventing women from discrimination, harassment and domestic violence.**
- **Grievances are being solved regularly and Complaint Boxes**

are installed in prominent places.

- **The Directorate has initiated a day care centre under UGC funding to take care of the employee's children especially women employees so that they can concentrate on their work and prove their efficiency.**

File Description	Documents
Upload relevant supporting document	View File
Annual gender sensitization action plan(s)	An exclusive Directorate Empowerment of Women & Grievances continuously organizes the Annual Gender Sensitization Programmes. Also a Virtual Legal Awareness Programme is planned and conducted on 18.12.2020.
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common rooms d. Daycare Centre e. Any other relevant information	The Directorate has initiated a day care center under UGC funding to take care of the employee's children especially women employees so that they can concentrate on their work and prove their efficiency.

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation Solar energy　　Biogas plant Wheeling to the Grid　Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment	**C. Any 2 of the above**

File Description	Documents
Upload relevant supporting document	View File

7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

Solid waste management:

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.

Liquid waste:

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

File Description	Documents
Upload relevant supporting document	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

B. Any 3 of the above

File Description	Documents
Upload relevant supporting document	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

1. **Restricted entry of automobiles**
2. **Use of bicycles/ Battery-powered vehicles**
3. **Pedestrian-friendly pathways**
4. **Ban on use of plastic**
5. **Landscaping**

B. Any 3 of the above

File Description	Documents
Upload relevant supporting document	View File

7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following: 1. **Green audit** 2. **Energy audit** 3. **Environment audit** 4. **Clean and green campus recognitions/awards** 5. **Beyond the campus environmental promotional activities**	**D. Any 1 of the above**

File Description	Documents
Upload relevant supporting document	[View File](#)

7.1.7 - The Institution has a disabled-friendly and barrier-free environment Ramps/lifts for easy access to classrooms and centres. Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software,mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.	**C. Any 2 of the above**

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words)

Institution provides an inclusive environment for everyone with tolerance and harmony towards cultural, regional, linguistic, communal socio economic and other diversities.

Different sports and cultural activities organized inside the college promote harmony towards each other.

Commemorative days like Women's day, Yoga day also promote tolerance and hormaony.

Institute has code of ethics for students and a separate code of ethics for teachers and other employees which has to be followed by each one of them irrespective of their cultural, regional, linguistic, communal socioeconomic and other diversities.

Admission of student is purely based on academic criteria.

The institution admits students irrespective of their community, ethnicity, language, religion, caste, race, region etc. No special privilege is given to any student on the basis of their community or religious consideration.

File Description	Documents
Upload relevant supporting document	No File Uploaded

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

I. For sensitization of students and employees of the Institution to the constitutional obligations like values, rights, duties and responsibilities of citizens the following courses are included in the curriculum.

S.No.

Name of the Course

Year in which course is being offered

Link to the relevant syllabus document

1.

Constitution of India

I year II Semester

https://www.jntuk.edu.in/wp-content/uploads/2021/10/CSD_12-YEARS-_CSSyllabus_UG_R20.pdf

2.

Essence of Indian Traditional Knowledge

II Year I Semester

https://www.jntuk.edu.in/wp-content/uploads/2021/10/CSD_12-YEARS-_CSSyllabus_UG_R20.pdf

3.

Essence of Indian Knowledge Traditional / Professional Ethics and Human values

II Year II Semester

https://www.cynohub.com/jntuk-b-tech-r20-2-1-syllabus-for-professional-ethics-human-values-pdf-2022/

II. Inline with the initiatives of AP state Council of Higher Education (APSCHE), Govt of A.P,JNTUK organised a programme "Development of Tree Plantation in the campus and survival of the plants" on 05-08-2020 to take up the Tree plantation in a big way, towards development of Greenery in the Campuses.

III.JNTUK, Kakinada informedto take all precautionary steps to curb Ragging in educational institutions as per the UGC, AICTE , AP State Council of Higher Education, Andhra Pradesh guidelines. University also informed that stringent action will be taken on reporting of any incidences of the Ragging from the institutes through its circular No. Endt No. JNTUK/DAA/ B1/Anti Ragging Instructions – 2020 dated 04.12.2020

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

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

Students take an active part in organising the Independence Day and Republic Day celebrations. On both these days, our national flag is hoisted with full honour and the national anthem is sung by all the attendees.

File Description	Documents
Upload relevant supporting document	[View File](#)

7.2 - Best Practices

7.2.1 - Describe one best practice successfully implemented by the Institution as per NAAC format provided in the Manual

1. Title of the Practice

Development of Innovation and Incubation culture in university

2. Objectives of the Practice

For Development of Innovation and Incubation culture in university,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, mobility, AI, ML and cloud.**
- **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.

3. 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.

4. The Practice

In order to implement any of the projects the challenges are the same and the following are the challenges faced for implementation of the best practice

i) Real time problem definition: Approached Kakinada Municipal Corporation,Andhra Pradesh state Government Police & Revenue departments for obtaining thereal time societal problems.

The real time societal problems of Government willhave problems with high data volumes and logical complexity.

ii) Capacity Building: Challenge: Availability of Industrial expert to a locationlike Kakinada is a major challenge. Getting them beyond the working hours of theInstitute and on holidays. The exercise may be an extra Burden on the

Studentsapart from regular curriculum. The students can be motivated only with a fewsuccess stories.

Uniqueness: - This kind of challenge is unique is Indian Higher Education.

As the institute is handling the Government related problems a few organizations have come forwarded under CSR activity and trained the students online during the night time and week ends.

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 accessed to be the best by the Government of United States of America.based on the following merits:

i) Involvement of Advanced technologies like Black Chain, 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.

5. Evidence of Success

- 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.
- 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.
- 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.

- Established a 9 node, 8TB Hadoop cluster with the technical support from Tetrasoft Inc. USA, (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.

6. 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 ServerBig Data Cluster

AngularJStoolset for building the framework most suited to your application development.

Apache Hadoop

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

Performance of Jawaharlal Nehru Technological University in line with its vision, priority and thrust

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.

- 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.

Roles and responsibilities:

The directorate is primarily intended to promote the culture of innovations. Specifically it is aimed toBring into light the innate creative thinking of students

- Facilitate an ecosystem for the students to transform their innovative ideas into products and
- To offer technical knowledge and knowhow to industries.

Objectives :

Brings into light the innate creative thinking of students

- Facilitates an ecosystem for students and faculty to transform their innovative ideas into products.
- offers technical competence to industries.
- JNTUK is among the top 20 institutes across India to get this project.
- The project has the funding of Rs.10 crores and uptoMarch, 2020.
- There are 3 collaborators for the project

Name

Working area

Hub — JNTUK

Development of Cutting tools

ANU, Guntur

Biodegradable polymers

IIIT, Nuzivid

Biosensors

IIIT, RK Valley

Bio-mass Gas stoves
7.3.2 - Plan of action for the next academic year
1. Submission of proposal for Converting University as Multidisciplinary Education and Research University (MERU) to the Satae Governament **2.Submission of proposals for Technology Enabled Centers** **3.To increase alumni and industry interaction to students** **4. To motivate faculty members for the FDP programmes** **5.To increase Ph.D enrollment.**