



Yearly Status Report - 2018-2019

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 own campus		Yes
Phone no/Alternate Phone no.		08842300900
Mobile no.		9676183355
Registered Email		registrar@jntuk.edu.in
Alternate Email		vc@jntuk.edu.in
Address		Pithapuram Road, East Godavari District.
City/Town		Kakinada
State/UT		Andhra Pradesh
Pincode		533003

2. Institutional Status					
University	State				
Type of Institution	Co-education				
Location	Urban				
Financial Status	state				
Name of the IQAC co-ordinator/Director	Prof. G V R Prasada Raju				
Phone no/Alternate Phone no.	08842300900				
Mobile no.	9618533555				
Registered Email	diqacjntuk@gmail.com				
Alternate Email	gvrpraju@gmail.com				
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)	https://www.jntuk.edu.in/wp-content/uploads/2022/06/JNTUK-AQAR-2017-18-FINAL.pdf				
4. Whether Academic Calendar prepared during the year	Yes				
if yes,whether it is uploaded in the institutional website: Weblink :	https://www.jntuk.edu.in/academic-calendars/				
5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B+	2.67	2017	02-May-2017	01-May-2022
6. Date of Establishment of IQAC			30-Jul-2017		
7. Internal Quality Assurance System					
Quality initiatives by IQAC during the year for promoting quality culture					
Item /Title of the quality initiative by IQAC	Date & Duration		Number of participants/ beneficiaries		

Two Week Summer Faculty Development Programme for Important Engineering Subjects in Phase-I	02-May-2019 14	120
Two Week Summer Faculty Development Programme for Important Engineering Subjects in Phase-II	15-May-2019 14	75
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8. 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
JNTUK University College of Engineering Kakinada,	TEQIPIII	MHRD, NPIU	2017 1461	70000000
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

4

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

No

Upload the minutes of meeting and action taken report

No Files Uploaded !!!

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?

No

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

1. Improvement in NIRF Ranking of the Institute 2. As part of MoUs with Foreign Universities like Chicago State University Faculty members of the University Visited Chicago State University for International Training 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. 3. Signed an MoU with Tetrasoft Limited, United States of America. 4. Signed an MoU with Toople Ltd, Singapore and it's associate Toople Digital Skills Pvt Ltd, Hyderabad 5. Conducted good number of Faculty Development programmes for the benefit of Faculty members.

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

Plan of Action	Achievements/Outcomes
Planning to organize a Faculty Development Programme on "Advanced vibration analysis and its practical applications" to the Faculty	Organized Faculty Development Programme on "Advanced vibration analysis and its practical applications" from 11th to 16th February, 2019
Planning to organize a workshop on Innovation and Design Thinking	JNTUK conducted workshop on Innovation and Design Thinking on 18th , 19th and 20th March 2019.
Participation in NIRF Ranking 2018 and 2019	JNTUK UCEK is able to achieve 97 Rank in 2018 and 103 Rank in 2019
Planning to conduct a Sensitization programme about Skill Development in association with Andhra Pradesh State Skill Development Corporation - SIEMENS Centers	A Sensitization programme about Skill Development in association with Andhra Pradesh State Skill Development Corporation - SIEMENS Centers was organized for Principals and Heads of ME and EEE department of Affiliated Engineering Colleges of East Godavari & West Godavari Dist.
Initiative to enhance IT skill set of your students.	JNTUK University has partnered with Spoken Tutorial, IIT Bombay which is an NMEICT, MHRD. Govt. of India initiative to enhance IT skill set of students of university
Planning to conduct the off campus Placement drive with Industries for the students of JNTUK	JNTUK conducted the off-campus Placement drive with "Nal Soft" for 2019 passing out B.Tech and M.Tech (ECE, CSE, IT, EEE, MECH) graduates
Planning to encourage Research activities by providing Best Researcher Award from University	JNTUK provided the Best Researcher Award from University to the Faculty members of Constituent and affiliated Colleges to encourage Research activities
Planning to conduct competition on laws related to women for all the Under Graduate and Postgraduate Students irrespective of their gender	The Constituent and Affiliated Colleges under the jurisdiction of JNTUK Kakinada have conducted competition on laws related to women for all the Under Graduate and Postgraduate Students irrespective of their gender from 01.09.2018 to 31.12.2018
Planning to organize Faculty Development Programme on "Improving the Teaching Skills in Engineering Subjects" to the Faculty, Research Scholars and P.G students	Faculty Development Programme on "Improving the Teaching Skills in Network Analysis" to the Faculty, Research Scholars and P.G students
Planning to organize a Techno Fair - A Platform to showcase the products,	Conducted JNTUK Techno Fair - A Platform to showcase the products,

ideas and creations of students/faculty/industry personnel

ideas and creations of students/faculty/industry personnel on 21st & 22nd December, 2018 at JNTUK Kakinada

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14. Whether AQAR was placed before statutory body ?

No

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

Yes

Date of Visit

17-Apr-2017

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2019

Date of Submission

25-Feb-2019

17. Does the Institution have Management Information System ?

No

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
Mtech	97	Avionics	29/02/2016
Mtech	03	Biotechnology	29/02/2016
Mtech	01	Environmental Eng ineering&Management	29/02/2016
Mtech	02	Renewable Energy	29/02/2016
Mtech	32	Remote Sensing	29/02/2016
Mtech	96	Nanotechnology	29/02/2016
Mtech	79	Environmental Occupational Health & Safety-79	29/02/2016

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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BTech	Mechanical	06/06/2007	Automobile	27/02/2016

	engineering		Engineering	
BTech	Electronics and Communication Engineering	06/06/2007	Electromagnetic Waves and Transmission Lines	27/02/2016
BTech	Electronics and Communication Engineering	06/06/2007	Analog Communications	27/02/2016
BTech	Electronics and Communication Engineering	06/06/2007	Digital Control Systems	24/02/2017
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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
Mtech	Power Electronics and Drives	19/07/2018
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the University level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
Mtech	Communication and Signal Processing	27/02/2016
Mtech	Thermal Engineering	27/02/2016
Mtech	CAD/CAM	27/02/2016
Mtech	Machine Design	27/02/2016
Mtech	High Voltage Engineering	27/02/2016
Mtech	Advanced Electrical Power System	27/02/2016
BTech	Electronics and Communication Engineering	27/02/2016
BTech	Mechanical Engineering	27/02/2016
BTech	Electrical and Electronics Engineering	27/02/2016
BTech	Computer Science and Engineering	27/02/2016
BTech	Civil Engineering	27/02/2016
Mtech	Instrumentation and Control Engineering	27/02/2016
Mtech	Computer and Communication	27/02/2016

Mtech	VLSI and Embedded System	27/02/2016
Mtech	Power Electronics & Drives	27/02/2016
Mtech	Computer Science and Engineering	27/02/2016
Mtech	Information Technology	27/02/2016
Mtech	Master of Computer Application	27/02/2016
Mtech	Structural Engineering	27/02/2016
Mtech	Soil Mechanics & Foundation Engineering	27/02/2016
Mtech	Hydraulics & Water Resources Engineering	27/02/2016
Mtech	Avionics	27/02/2016
Mtech	Biotechnology	27/02/2016
Mtech	Environmental Engineering & Management	27/02/2016
Mtech	Renewable Energy	27/02/2016
Mtech	Remote Sensing	27/02/2016
Mtech	Nanotechnology	27/02/2016
Mtech	Environmental Occupational Health & Safety	27/02/2016
Mtech	Food Processing Technology	27/02/2016
Mtech	Pharmaceutics	27/02/2016
Mtech	Pharmacology	27/02/2016
Mtech	PA&QA	27/02/2016
BTech	Information Technology	27/02/2016
BTech	Metallurgical Engineering	27/02/2016
Mtech	SYSTEMS AND SIGNAL PROCESSING(ECE)	27/02/2016
Mtech	MATERIAL SCIENCE AND TECHNOLOGY(MET)	27/02/2016

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Environmental Studies (R16)	27/02/2016	67
Professional ethics human values (R16)	27/02/2016	67
Intellectual property rights patents(R16)	27/02/2016	67

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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	CSE	2
BTech	ME	1
BTech	PCE	29
BTech	CE	42
BTech	EEE	15
BTech	ME	30
BTech	CSE	4
BTech	EEE	1
BTech	ME	1
BTech	ME	1

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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	No
Alumni	No
Parents	No

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained

• JNTUK is regularly taking the Exit feedback from final year B.Tech students, based on the feedback (after analysis) with the support of Alumni, University is providing Best Teacher Awards during teachers day celebrations (a certificate, memento and cash award will be given to best teachers of the department) • Semester End feedback were taken using Google forms, will be shared the analysis report to HoDs and in turn to concern faculty, aiming for bringing seriousness and enhancing the academic ambience and also for presenting/submitting to accreditation committees • Feedback from teachers were taken at the department level • During the performance audit, the performance auditor interacts with all faculty, staff, parents and alumni separately and analysis of the feedback will be provided to the Principal and the same will be discussed in college academic committee (CAC) and necessary actions were initiated. • After the completion final years examinations, during the alumni induction day, students present their experiences and feedback in front of university officials and the same will be utilized for overall enhancement Moreover, some of the faculty are taking feedback on their own using Moodle / Google forms.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
Mtech	M.Pharmacy(Pharmacology)	11	11	11
Mtech	M.Tech(Environmental Occupational Health & Safety)	23	18	18
Mtech	M.Tech(Remote Sensing))	23	12	12
Mtech	M.Tech(Environmental Engg & Management)	23	14	14
Mtech	M.Tech(Avionics)	23	13	13
Mtech	M.Tech(Biotechnology)	23	11	11
Mtech	M.Tech(Renewable Energy)	23	15	15
Mtech	M.Tech(Nanotechnology)	23	2	2
Mtech	M.Pharmacy(Pharmaceutics)	16	16	16
Mtech	M.Pharmacy(Pharmaceutical Analysis)	16	16	16

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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	406	315	70	70	50

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
190	190	29	44	7	0

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Yes it's available. Recently JNTUK has enhanced the Training Placement Cell into Career Guidance Placement cell with departmental coordinators. In addition to this, through departmental committees needy students were mentored / counselled. University College of Engineering Vizianagaram: Student mentoring System is available at JNTUK University College of Engineering Vizianagaram (UCEV) and every academic department has a mentoring system to council and support students. For effective implementation of various initiatives required for the student support and mentoring, the Departmental Committees are activated. Each faculty member is assigned a group of students for counseling and mentoring. Thrust is given to those students who particularly hail from rural/tribal background. The Placement Officers are arranging on-campus interviews in coordination with various corporate offices, industries and organizations for final placements. Apart from placements and classroom counseling, the following are a few measures which JNTUK-UNIVERSITY COLLEGE OF ENGINEERING adopts to encourage and guide the students: Pre-admission counseling, Orientation programmes, Bridge courses, Ragging free campus, Hostel accommodation, Transport, Remedial classes, Infrastructural support, Competency building programmes, Health care, Physical fitness, Socialization, Ethical character building, Organization abilities and leadership skills, enhancing research capabilities and Service personality.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
721	190	1:4

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
178	123	55	0	102

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2018	Dr. K. Venkata Reddy	Associate Professor	Best Researcher Award
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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BTech	IA	II -II	30/06/2019	14/08/2019
Mtech	97	II Semester I Semester	10/08/2018	15/09/2020
Mtech	79	II Semester I Semester	10/08/2018	15/09/2020
Mtech	3	II Semester I Semester	10/08/2018	15/09/2020
Mtech	1	II Semester I Semester	10/08/2018	15/09/2020

Mtech	33	II Semester I Semester	10/08/2018	15/09/2020
Mtech	96	II Semester I Semester	10/08/2018	15/09/2020
MPharm	3	II Semester I Semester	06/08/2018	07/07/2020
MPharm	16	II Semester I Semester	06/08/2018	07/07/2020
BTech	IA	I -II	23/06/2019	14/08/2019
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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
0	1784	0

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

https://sites.google.com/a/jntucek.ac.in/jntucek_vice-principal/home

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
6	MPharm	P.Cology	14	14	100
79	Mtech	EOH&S	12	12	100
96	Mtech	Nanotechch nology	9	9	100
1	Mtech	EEM	20	20	100
97	Mtech	Avionics	20	20	100
3	Mtech	Biotech	5	5	100
2	Mtech	R.Energy	12	12	100
32	Mtech	Remote Sensing	21	21	100
3	MPharm	P.Ceutics	14	14	100
16	MPharm	PA&QA	13	13	100
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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<https://www.jntuk.edu.in/wp-content/uploads/2022/05/JNTUK-student-satisfaction-survey.pdf>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
International	Dr.Lingaraju Dumpala	Research fellow ship one week at AACHEN UNIVERSITY	10/08/2018	AACHEN UNIVERSITY, GERMANY
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3.1.2 – Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other fellows in the Institution enrolled during the year

Name of Research fellowship	Duration of the fellowship	Funding Agency
JRF	1095	Naval Research Board
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3.2 – Resource Mobilization for Research

3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
International Projects	1080	UGC	125	0
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3.3 – Innovation Ecosystem

3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
NIL	NIL	Nil
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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Best Researcher	Dr. K.Venkata reddy	JNTUK	18/07/2018	Best Researcher Award
Best Researcher	Dr N Balaji	JNTUK	18/07/2018	Best Researcher Award
National Design Innovation Network	Jawaharlal Nehru Technological University Kakinada	Ministry of Human Resource Development	13/03/2019	National Initiative for Design Innovation
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation	Name	Sponsored By	Name of the	Nature of Start-	Date of
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Center			Start-up	up	Commencement
1	JNTUK Incubation Centre	JNTUK	JNTUK startup	Engineering, Technology Sciences	10/04/2017
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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Dept of CE	2
Dept of EEE	13
Dept of ME	13
Dept of ECE	23
Dept of CSE	21

3.4.2 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Dept of ME	70	0
International	Dept of ECE	30	0
International	Dept of CSE	36	0
International	Dept of CE	32	0
International	Dept of EEE	30	0
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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
EEE	15
CE	9
ME	10
ECE	9
CSE	12
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3.4.4 – Patents published/awarded/applied during the year

Patent Details	Patent status	Patent Number	Date of Award
Dr.D.Linga Raju Welding apparatus with Ecentric motion of welding torch	Published	201741037606	26/04/2019
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3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Grid connected distributed generation system with high voltage gain cascaded DC-DC converter fed asymmetric multilevel inverter topology	Sai Babu Ch.	International Journal of Electrical and Computer Engineering	2018	15	JNTUK KAKINADA	Nil
FPGA implementation of a three-level boost converter-fed seven-level DC-link cascade H-bridge inverter for photovoltaic applications	Sai Babu Ch.	Electronics (Switzerland)	2018	15	JNTUK KAKINADA	Nil
Cross diagonal derivation direction matrix for efficient image retrieval	Sumalatha L.	Journal of Advanced Research in Dynamical and Control Systems	2018	13	JNTUK KAKINADA	Nil
Optimal reactive power dispatch under unbalanced conditions using hybrid swarm intelligence	Srinivasa Rao R.	Computers and Electrical Engineering	2018	45	JNTUK KAKINADA	Nil

Medical disease prediction using grey wolf optimization and auto encoder based recurrent neural network	Karuna G.	Periodicals of Engineering and Natural Sciences	2018	18	JNTUK KAKINADA	Nil
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3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Repartitioned optimized K-mean centroid based partitioned clustering using mapreduce in analyzing high dimensional big data	Krishna Prasad M.H.M	International Journal of Engineering and Advanced Technology	2019	6	102	JNTUK University College of Engineering Kakinada
Security on Data Auditing Protocols for Cloud Storage Data	Krishna Prasad M.H.M	Proceedings of the 3rd International Conference on I-SMAC IoT in Social, Mobile, Analytics and Cloud, I-SMAC 2019	2019	6	102	JNTUK University College of Engineering Kakinada
Image retrievals based on statistical modeling and cosine similarity	Krishna Prasad M.H.M	International Journal of Engineering and Advanced Technology	2019	6	102	JNTUK University College of Engineering Kakinada
Privacy preserving	Krishna Prasad	International	2019	6	102	JNTUK University

approach for preventing from access to unauthorized users	M.H.M	Journal of Innovative Technology and Exploring Engineering				College of Engineering Kakinada JNTUK University College of Engineering Kakinada
Region based age classification using cross diagonal centre symmetric motif matrix (CD-CS-MM)	Krishna Prasad M.H.M	International Journal of Innovative Technology and Exploring Engineering	2019	6	102	JNTUK University College of Engineering Kakinada
An empirical study on community detection algorithms	Krishna Prasad M.H.M	Smart Innovation, Systems and Technologies	2019	6	102	JNTUK University College of Engineering Kakinada
Project stratagems for a nonlinear vector controller fed BLDC motor	Ravindra, Kollu	International Journal of Engineering and Advanced Technology	2019	6	976	JNTUK University College of Engineering Kakinada
Effect of penetration of solar DGs on transient stability of captive power generation units	Ravindra, Kollu	International Journal of Engineering and Advanced Technology	2019	6	976	JNTUK University College of Engineering Kakinada
Renewable energy source allocation of air-conditioner using fuzzy logic	Ravindra, Kollu	Proceedings of 2017 International Conference on Intelligent Computing and Control, I2C2	2018	6	976	JNTUK University College of Engineering Kakinada

A Multi-Objective Approach for Dg and Capacitor Placement Using Harmony Search Algorithm	Ravindra, Kollu	A multi-objective approach for the optimal design of a standalone hybrid renewable energy system	2018	6	976	JNTUK University College of Engineering Kakinada
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3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	1	6	2	2
Presented papers	3	1	0	0
Resource persons	0	1	0	0
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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Civil Engineering Department	Structural stability field work Dilapidated building comprising of 9 commercial shops Nuzvid	State agency /Private Sector	200000
Civil Engineering Department	Testing of Soil - PIU Sub Division, Amalapuram - Upgradation of NREGS grant - Road from TadikonaPedaHarijanapeta bridge to D. Ravulapalem RB road	State agency /Private Sector	200000
Civil Engineering Department	Proof design work N.Kesava Narayana Reddy Yerragandapalam	State agency /Private Sector	370000
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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
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Dept. of Mechanical Engineering	METALLURGY LAB CONSULTANCY	RESEARCH SCHOLARS	5000	0
Dept. of Mechanical Engineering	FRICITION STIR WELDING AND FRICITIONSTIR PROCESSING CHARGES	RESEARCH SCHOLARS	30000	0
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3.6 – Extension Activities

3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Candle Rally	NSS	20	150
Swatcha bharath	NCC	4	30
Participated in 2K run organized by The TEAM Hospital to create awareness on World Heart Day on 29.09.2018.	NSS	4	34
International Yoga Day in association with JNTUK NSS cell on 21st June 2019	NSS	5	55
Swatch Bharath in Mechanical Engg. Dept. on March 8th 2019	NSS	5	25
Campaigned about voter enrolment in the campus on first week of November 2018	NSS	2	30
seminar on "Internet Security Awareness" on 22.07.2018 in association with OM Foundation India	NSS	2	150
Every year on 7th December Flag Day is conducted. On that day 10 to 20 cadets were participated Flag Day Hundi collection and handed over to	NCC	2	20

Registrar that will reached to Sainik Welfare Office, East Godavari (Dist).			
26 Cadets attended Range Firing and Skeet firing Practice on 16-07-2018 to 21-07-18 held at Police Firing Range, Peddapuram.	NCC	2	26
The 9 (A) Air SQN (Tech) NCC organized a blood donation camp in collaboration with blood bank of Indian Red Cross SocietyNCC	NCC	5	55

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3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
State Level NSS Youth Festival	State Level NSS Youth Festival 2nd Prize and 3rd prizes	Sri Venkateswara Veterinary University, Tirupati, Andhra Pradesh State	2

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3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
NSS	COLLECTORATE	Campaigned about voter enrolment in the campus on first week of November 2018	5	43
NSS	Range Firing and Skeet firing Practice	26 Cadets attended Range Firing and Skeet firing Practice on 16-07-2018 to 21-07-18 held at Police Firing Range, Peddapuram.	2	10

Swatcha bharath	JNTUK	Swatcha bharath	4	30
NSS	District Police Office Kakada	Candle Rally	5	150
NSS	The TEAM hospital	Participated in 2K run organized by The TEAM Hospital to create awareness on World Heart Day on 29.09.2018.	2	15
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3.7 – Collaborations

3.7.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
One-week National Workshop cum FDP on Advanced Computer Architecture Lab Using SimpleScalar Simulator (with hands on) during 26-30 Sept. 2018	Students and Faculty	TEQIP-III	7
One Week Faculty Development Programme on "Advances in Materials and Manufacturing Processes" during 29th Oct. to 3rd Nov. 2018	Faculty of CETB	TEQIP-III	7
Expert from M/s. Truzio, Pvt Ltd., visited CETB during 24th Jan 2019. to discuss on ERP to project students	Students of CETB	TEQIP-III	1
¼ Prof. K. Ramamohana Rao, University of Melbourne, Australia visited CETB during 24th and 25th Jan. to deliver research oriented Expert Lecture	Students and Faculty of CETB	TEQIP-III	2
FDP on "Advances in Manufacturing	faculty of CETB	TEQIP-III	7

Design NDT Technologies" organized during 11-16th Feb. 2019			
Workshop on OBE	Faculty of CETB	NPIU	2
3 Day National Workshop cum FDP on "Internet of Things" organized during 19- 21st Apr. 2019 at CETB	Students of CETB	Nill	3
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3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
International Training 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	joint M.S Program	Chicago State University	14/06/2019	Nill	30
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3.7.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
School of Avionics	Nill	Internships and placements	24
School of Avionics	Nill	Research and Internship	7
Tetrasoft Limited, USA	Nill	Research and Internship	10

Toople Ltd, Singapore and it's associate Toople Digital Skills Pvt Ltd, Hyderabad	16/06/2018	Research and Internship	20
AP Police Department	11/09/2019	to take "Measures and Innovative Initiatives to address the Societal Needs"	20
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
1641427	1641427

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Newly Added
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Classrooms with Wi-Fi OR LAN	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
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4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Bees Library Software	Partially	NIL	2010

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
e-Books	1181	2896279	0	0	1181	2896279
e-Journals	0	0	1475	2998729	1475	2998729

Library Automation	0	0	0	0	0	0
Others(s pecify)	0	0	0	13570	0	13570
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
NIL	NIL	NIL	Nil
No file uploaded.			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	160	3	0	0	0	0	0	100	0
Added	0	0	0	0	0	0	0	50	0
Total	160	3	0	0	0	0	0	150	0

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

150 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Handicam, Tripod, TV, Still Camera, Scanner, Internet, Wi-Fi etc., Aview, webex	NIL

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
174723	174723	30317681	30317681

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

<p>Physical Facilities:</p> <ul style="list-style-type: none"> • The University is located in 86 Acres of the erstwhile Engineering College in 1946 • The college is elevated to university in the year 2008. • The campus is divided into Administrative, Academic, Sports and Living areas • Every department is provided with dedicated buildings and Laboratories, Class rooms, Faculty rooms, Drawing room, Toilets for ladies and Gents • Separate Hostels are provided for Gents and Ladies covered with protective
--

fencing. • The Hostel rooms can accommodate 3 students per room. • Separate Dining room Recreation Room, Gymnasium, Reading Room and • Medical facilities are provided • Dedicated Sports pavilion was constructed with Indoor Stadium accommodating Gymnasium, Dormitory, Visitors rooms, wooden courts for Shuttle badminton, volley ball was provided • The outdoor portion of the pavilion can accommodate Cricket, Basket Ball, and other sports facilities. • Student Amenities like Hospital, Bank, Post office, Library, Canteen, Dedicated shopping facilities for Stationary, and other essential facilities are provided • The space of the campus is planned for optimal utilization incorporating all essential features including ambience with well planned entry and exit and with planned Roads, Gardens, Lighting, generator and other basic facilities. • 12.5KV Solar power generation facility • The University provide funds if any further requirements arise from time to time. The university create Conducting Physical ambience for the faculty and teachers in terms of the following facilities • Dedicated Innovations Research center was established to provide working space for Research Students, 24x7 Computer Laboratories, Student Innovations centers, Student Incubation facilities along with Seminar rooms to Research Scholars are developed. • Staff are provided with quarters in campus, dedicated rooms in department with Computer, Printer and Internet services and other facilities are provided towards conducive physical ambience to staff in both the campuses. Also the university cater to the requirements of residential students • Recreational facilities in hostels like gymnasium, yoga centre, etc. The following recreational facilities are available in hostels ? Reading room with television facility ? Indoor Gymnasium with complete equipment ? Common Yoga centre provided in Student amenities Building ? Indoor Sports facilities like Caroms, Chess ? Outdoor sports facilities like Shuttle badminton, Throw ball courts ? Broadband connectivity / wi-fi facility in hostels. In the University special facilities are available on campus to promote students interest in sports and cultural events/activities Sports Facilities 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) and Assistant Professor of Yoga (Contract). • University has a dedicated sports personal like Physical Education Directors and trainers both for Men and Women • University Conduct major all India and South zone sports championships sports sponsored by Sports Council of India like Shuttle badminton,

<https://www.jntuk.edu.in/wp-content/uploads/2022/07/Procedures-and-policies-for-maintaining-facilities.pdf>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Nil	0	0
Financial Support from Other Sources			
a) National	Jnanabhumi (B.Tech)	762	17053600
b) International	Nil	0	0

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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
TCS Interactive Session with Selected Students	06/04/2019	134	Tata Consultancy Services
1-Day Workshop to Enhance Skills on C Programming	01/09/2018	300	FOCUS ACADEMY FOR CAREER ENHANCEMENT (FACE), BANGALORE
2 Day Workshop on "Technical C Programming Skills"	14/06/2018	300	COIGN, HYDERABAD
Conducted "CRT (Campus Recruitment Training)" Classes Under TEQIP-III	16/08/2018	750	1. TRIUMPHANT INSTITUTE OF MANAGEMENT EDUCATION PVT. LTD 2. COIGN, HYDERABAD
3 Day Workshop on Accenture Company Specific Training	30/09/2018	350	FOCUS ACADEMY FOR CAREER ENHANCEMENT (FACE), BANGALORE
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	GATE Coaching	74	0	0	22
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
230	180	15

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Tata Consultancy Services	257	129	NIL	0	0
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2018	1	Remote sensing	Remote sensing	IIT, Madras	PhD
2018	1	Remote sensing	Remote sensing	JNTUK	PhD
2018	1	School of Avionics	School of Avionics	JNTUK	PhD
2018	1	School of Avionics	School of Avionics	NIT, Tirichy	PhD
2018	1	Remote sensing	Remote sensing	NIT, Suratkal	PhD
2018	1	Remote sensing	Remote sensing	IIT, Madras	PhD

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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	10

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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
• Organised AP State Inter-University CM's Cup 2018 Ball Badminton (Men Women) Tournament during 04-12-2018 to 06-12-2018	Inter-University	200
• Organised AP State Inter-University CM's Cup 2018 Kabaddi (Men) Tournament during 11-12-2018 to 13-12-2018	Inter-University	150

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5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	Bronze medal	National	1	Nil	18021A2728	N. Kalyani

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5.3.2 – Activity of Student Council & representation of students on academic & administrative

bodies/committees of the institution (maximum 500 words)

Creamy layer students join in UCEK through various entrance examinations viz., EAMCET, ECT(FDH), GAT, PGECET etc conducted by state bodies. Students have active representation on academic and administrative bodies and committees of the Institution. The quality and hygiene of the hostel food is monitored by student representatives along with the other nominated faculty members / deputy wardens. They visit frequently and collect feedback from peers and also continuously monitor the quality and quantity of the food served. Hostel Administration Students provide strong support in the administration and management of hostel affairs. Each hostel has a team of members, Mess Committee, Cleanliness Committee etc. Class Committee Meetings are held regularly, at least twice in each semester. Students clubs like Literary club, Music club, Creative arts club, Dramatics club, Photography short film shooting club and Classical dance club are involved in this committee. Cultural and Sports Committees Students have strong representations in all cultural and sports and games committees and help in organization and management of events. Majority of the students participate actively in college and sports day celebrations and TechFests.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

This association registered in Kakinada is the headquarters for all chapters of old students of the College from 1946 through now. This is an active association co-located in the College and will provide leadership to all the chapters throughout the world. 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. Objectives: To promote excellence of the mother Institution viz., University College of Engineering, Kakinada, through liaison with the college administration (in helping, to build / augment the Laboratories, institute scholarships), by donating funds, equipment, books etc., to the college or by any other activity which would glorify the Institution or the students. 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. The college successfully celebrated its Silver Jubilee in 1971, its Golden Jubilee grandly during 1995 - 1996 and Diamond Jubilee during 2005 - 2006. With the help of funds raised through the contributions from the Alumni, a Golden Jubilee Block (Swarnotsav Bhavan) was constructed during Golden Jubilee Period. The old students of 1979-83 batches constructed a mini auditorium in 2010-11. It was named "1979-83 Alumni Auditorium". A modern Indoor Stadium of worth Rs. 5 crores completed. The Membership: Every year, the UCEK inducts 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. Annual Meet: Alumni meet on the first Sunday of January every year. All alumni along with their families are invited to the whole day meet.

5.4.2 – No. of registered Alumni:

5.4.3 – Alumni contribution during the year (in Rupees) :

1801500

5.4.4 – Meetings/activities organized by Alumni Association :

1. ECOSAK- Annual General Body meeting and Family get-together on 27-01-2019 2. ECOSAK- Executive meeting on 18-04-2019 1.paid homage charges to Sri Chandra Turaga, 1969-ECE 2.Organise Alumni meet for 5 years pssed out batches 3. improve Alumni Website 4.Extend interacts be internal part of ECOSAK to Bangalore, Chennai and Vijayawada center. 5. to attach 2 or 3 students to senior Alumns/ for maintaining - Guidance for Career 6. Academic Activities / seminars/ work shops 7. fund a/c transfer/ new registration either society / company act 8. include active members 9. EC Member ID Cards 10. ED for 4 Lakhs@ 2 lakhs 11.message of EC meet Date of July 10 Saturday 2019. 12. probable real map to Platinum Jubilee 3. Ecosak Alumni Representatives from Students meet on 15-06-2019

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

The University promotes a culture of participative management. The faculty members are made part of the decision-making process along with student representatives/ Alumni. The Executive Council represented by the Vice Chancellor, Rector, and the following members are nominated by the State Government i) Secretary to Government, Higher Education Department, Andhra Pradesh State, ii) Commissioner of Technical Education, Department of Technical Education Government of Andhra Pradesh, iii) Principal Finance Secretary (PFS) Government Andhra Pradesh iv) Chairman, Andhra Pradesh State Council of Higher Education, v) Principal of the University colleges vii) A Professor of the University colleges, viii) Principal of the University colleges, ix) Principal of the affiliated colleges, x) faculty member from the faculty of the University colleges, xi) Faculty member from the faculty of the affiliated colleges if any, eminent personalities representing industry, research and development, Engineering and Technology. The Vice-Chancellor shall be the Chairman of the Council and Registrar shall act as the Secretary to the Council. Advisory Bodies The Executive Council is assisted by Academic Senate, Planning and Monitoring Board, Finance Committee and Selection Committee. The Academic Senate advises the Executive Council on matters relating to the Faculty, Curriculum and evaluation methods. Academic Senate: The Academic Senate shall have powers of approving all courses of study proposed by the Boards of Studies and of determining their curriculum and have general control of teaching, research and examinations within the University and shall be responsible for the maintenance of standards thereof by all the constituent and affiliated colleges. Boards of Studies: Different faculties have Board of Studies headed by a Chairperson and Members drawn from academics, industry and alumni. The Director, Academic and Planning is the convener for all the Boards of Studies of the University. All the decisions of the Boards of Studies will be placed before the Academic Senate for its approval. Planning and Monitoring Board The Planning and Monitoring Board shall be the principal planning and reviewing body and it shall also arrange for periodical monitoring of the developmental programmes and teaching and research in the University. Selection Committee: All faculty positions are filled on the recommendations of a duly constituted Selection Committee as per Statutes. The Finance Committee advises on all matters relating to the finances and budget of the University. Building

Committee: Building Committee: All the construction activities of the University and constituent colleges will be approved by the building committee after according approval from University Executive Council.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	<p>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 5. The University has established Pipeline Engineering, Nano Technology, Renewable Energy, Avionics and need based interdisciplinary programmes</p>
Research and Development	<p>Majority of faculty achieved 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 were also filed. 2. 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 ltd, Tetrasoft USA, Toople Singapore and Kakinada smart city project on advanced technologies etc. MHRD sponsored Design Innovation Centre was established to encourage innovative designs, ideas and research. 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. University is planning to setup more</p>

	<p>number of incubation and innovation centres in interdisciplinary areas and skilling centres to cater to the needs of various industries and to encourage the research</p>
Teaching and Learning	<p>All the Faculty members are provided with required Hardware and Software tools to integrate the e-contents in to teaching-learning practices</p>
Examination and Evaluation	<p>Being the Technical University, the entire evaluation process is continuous. The students can submit their applications online for exam fee payments, online for issue of certificates to the University Examination Centre. Also, JNTUK University had become a part of NDML Academic Depository to facilitate issuance, storage and access of academic awards in an online depository system on the pattern of Securities Depository.</p>
Industry Interaction / Collaboration	<p>In order to archive 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 ltd, Tetrasoft USA, Toople Singapore and Kakinada smart city project on advanced technologies etc. MHRD sponsored Design Innovation Centre was established to encourage innovative designs, ideas and research. 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. University is planning to setup more number of incubation and innovation centres in interdisciplinary areas and skilling centres to cater to the needs of various industries and to encourage the research.</p>
Admission of Students	<p>JNTUK has entered in to MoU with VEDA IIT with APSICHE Industry Consortium, VEDA IIT has introduced Master of Science in VLSI Engineering Specialization (Full Time/Regular) which is a Two Years with four Semesters programme from the Academic Year 2018-19 at VEDA IIT, Amaravati</p>

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Planning and Development	The Vision and Mission Statement is uploaded on the institutional website.
Administration	The Administration communicates with Governing Body members as well as the teaching and non-teaching staff is through eoffice facility of Govt of Andhra Pradesh and email. All important administrative information including notices is regularly published on the website. Biometric devices installed for all staff members. Automated, wireless office with 24x7 internet facility
Finance and Accounts	The accounts of the institution are maintained through the Tally software
Student Admission and Support	For Admission fee payments online transaction interfaces are provided on website
Examination	https://www.jntuk.edu.in/examination/

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Dr. P. Vinay Kumar	5-Day Short Term Course (STC) on Modern Wireless Communication: Towards 5G" during 25th Sep 2019 to 29th Sep 2019 at NIT Rourkela	NIL	6525
2019	Dr K Rajasekhar	International Conference on Electrical, Communication, Electronics, Instrumentation and Computing	TEQIP II	Nil

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6.3.2 – Number of professional development / administrative training programmes organized by the University for teaching and non teaching staff during the year

Year	Title of the professional development	Title of the administrative training	From date	To Date	Number of participants (Teaching)	Number of participants (non-teaching)
------	---------------------------------------	--------------------------------------	-----------	---------	-----------------------------------	---------------------------------------

	programme organised for teaching staff	programme organised for non-teaching staff			staff)	staff)
2019	Two Weeks Faculty Development Programme (Summer Courses to assist faculty in constituent/Affiliated Engineering colleges)	NA	02/05/2019	14/05/2019	50	Nil
2018	Two day national level Conference NC-VSPICE-2K18	NA	19/07/2018	20/07/2018	116	Nil
2018	One Week Training Program On Python	NA	06/07/2018	11/07/2018	100	Nil
2019	Two-Week Summer Faculty Development Programme on Important Engineering Subjects	NA	02/05/2019	15/05/2019	30	Nil
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Improving teaching skills in the subject VLSI	60	25/05/2019	30/05/2019	6
1-Week FDP on Noise Vibration control of structures: Engineering Applications	60	26/11/2018	01/12/2018	6

1-Week FDP on Recent Trends in Communication Engineering	60	04/02/2019	09/02/2019	6
"Recent Trends in Communication Engineering (LAB VIEW, FEKO, XILINX)	60	04/02/2019	09/02/2019	6
Advanced Vibration Analysis and its practical applications	60	11/02/2019	16/02/2019	6
Software Project Development Through Python	60	06/07/2018	11/07/2018	6
(Lab VIEW, FEKO, Xilinx)	60	29/10/2018	02/11/2018	5
Noise Vibration Control of Structures: Engineering Applications	60	26/11/2018	01/12/2018	5
Recent trends in Communication Engineering (Lab VIEW, FEKO, Xilinx)	60	04/02/2019	09/02/2019	6
CNC Robotic programming in manufacturing industries	60	02/07/2018	07/07/2018	6
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
83	107	116	107

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
ECK Welfare Funds	ECK Welfare Funds	NA

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

Yes, the university have both internal and external Audit System. All voucher

are internally audited before it is produced to statutory Auditor. In addition, the university has also pre audit system in its payments exceeding 1,00,000/- . The accounts of the university are audited by an independent Chartered Accountant Firm. No major audit objections were raised so far while audit.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Sri.Chandra Turaga	300000	annual interest on the deposit to be utilize for the award of every year,1969 Scholarship fund
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6.4.3 – Total corpus fund generated

0

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	AICTE	Yes	TEQIP-III
Administrative	Yes	AICTE	Yes	TEQIP-III

6.5.2 – What efforts are made by the University to promote autonomy in the affiliated/constituent colleges? (if applicable)

The University encourages all the constituent colleges and affiliated colleges to apply for UGC autonomous status, NBA accreditation and NAAC accreditation. The colleges prepare a Self-Study Report, request the University to forward the applications to UGC for granting autonomous status. The University suggests the institutions at various levels to meet the standards in respect of UGC autonomy, NBA and NAAC. As a mandatory requirement, the University nominates University nominee into UGC autonomous status committee for thorough evaluation of the facilities. The constituent colleges have Participated in NIRF ranking process. JNTUK University College of Engineering Kakinada has achieved NIRF rank of 97 in 2018 and NIRF rank of 103 in 2019.

6.5.3 – Activities and support from the Parent – Teacher Association (at least three)

-NA-

6.5.4 – Development programmes for support staff (at least three)

supporting staffs are motivated to take participation in skill development program like PMKVY. Non-teaching staff is promoted to attend workshops. Non-Teaching Staff is encouraged to attend Management Capacitive Enhancement Programmes.

6.5.5 – Post Accreditation initiative(s) (mention at least three)

Up-gradation of faculty knowledge to suit industry needs by incorporating emerging technologies like AI,ML, Data Sciences, Internet of Things, etc. Revision of Curriculum for B.Tech and M.Tech programs as per AICTE model curriculum from academic year 2019-2020. 2. In order to achieve integrated higher education system, with professional and vocational education, the

University has set up an Incubation center which is providing Internship and training on employability skills by collaborating and networking with industries for promoting industry oriented research in collaboration Wipro ltd, Tetrasoft USA, Toople Singapore and Kakinada smart city project on advanced technologies etc. MHRD sponsored Design Innovation Centre was established to encourage innovative designs, ideas and research.

6.5.6 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	No
d) NBA or any other quality audit	Yes

6.5.7 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	JNTUK TECHNO-FAIR	Nil	20/12/2018	21/12/2018	200
2019	Two Week Summer Faculty Development Programme for Important Engineering Subjects in Phase-I	Nil	02/05/2019	15/05/2019	180
2019	Two Week Summer Faculty Development Programme for Important Engineering Subjects in Phase-II	Nil	16/05/2019	30/05/2019	180

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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Self Defense Program on Security and Safety Measures	05/10/2018	05/10/2018	75	5
188th	03/01/2019	03/01/2019	60	5

Birthday Celebrations of Savitri BaiPhule				
International Women's Day celebrations -2019 Balance for Better	08/03/2019	08/03/2019	300	15

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
Solar panels are arranged in some departments to get renewable/alternate energy. 10

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	5
Provision for lift	Yes	5
Ramp/Rails	Yes	5
Scribes for examination	Yes	0

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
Nil	Nil	Nil	Nil	Nil	NIL	NIL	Nil
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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Professional Ethics and Human Values	09/08/2019	As part of improving Human Values in 2013 the UNIVERSITY has initiated and introduced Professional Ethics and Human Values at UG level B.Tech I year II SEMESTER SUBJECT as a subject in the curriculum for all the constituent and affiliated colleges of JNTUK spread across 8 districts of Andhra Pradesh Stae

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
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NIL	Nil	Nil	Nil
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

An exclusive directorate named "Green Campus Initiatives" was established in 2019. The following are the initiatives 1. Rain Water Harvesting 2. Open Class Room 3. High dense plantation (Miyawaki) on Experimental Basis 4. Green Building Concepts for further Buildings to be constructed at one of the Constituent colleges of the University, JNTUK University College of Engineering Narasaraopet. 5. Educating all the stakeholders by Conducting Conferences and awareness programmes on environmental Issues.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Title of the Practice Development of Innovation and Incubation Culture in University 2. Objectives of the Practice To develop Innovation and Incubation culture in university, an exclusive Design Innovation. Centre and also an exclusive directorate for Incubation and IPR were 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: • Brings into light the innate creative thinking of students • Facilitates an ecosystem for students and faculty to transform their innovative ideas into products. • To offer technical competence to industries. • 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, subject experts from University. 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

i) Real time problem definition: Approached Kakinada Municipal Corporation, Andhra Pradesh state Government Police and 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. ii) 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. 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 weekends. The projects have 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 • 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. • An MOU was made on 23rd March 2016 between the Registrar of JNTUK and the then president of the India acting through the Joint Secretary, Ministry of Human Resource Development, Govt. of India. • JNTUK is among the top 20 institutes across India to get this prestigious project. • The project has the funding of Rs.10 crores and gets continued till March, 2020. • The following are a few of innovative prototypes developed by Design Innovation Centre: Shrimp feeding machine and novel aerator for aquaculture Corn deseeding machine Hydraulic ram pump for pumping water in hilly areas Groundnut shelling machine Bike ambulance for tribal people Bluetooth operated screw jack Smart robotic device for rescuing baby in bore well Automatic pineapple peeling machine Weed detecting device for crops Jack fruit processing machine Pipe line inspection robot Electricity from speed breakers and solar bird scaring device Automatic rain sensing window Dehusking coconut machine • There are 3 collaborators for the Design Innovation project, viz., • Acharya Nagarjuna University (ANU), Guntur • IIIT, Nuzivid and • IIIT, RK Valley, Pulivendula • Given below are the working areas of the individual institutes under DIC: Name Working area Hub - JNTU K Development of Cutting tools Acharya Nagarjuna University, Guntur Biodegradable polymers IIIT, Nuzivid Biosensors IIIT, RK Valley Bio-mass Gas stoves • 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) 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 Server Big Data Cluster • AngularJS toolset for building the framework most suited to your application development. • Apache Hadoop • Advanced fabrication lab • Product design lab 1. Title of the Practice Capacity Building of Faculty in University 2. Objectives of the Practice JNTUK established an exclusive Directorate for Capacity Building of Faculty in the University. The University has thousands of faculty members contributing to student development leading to overall growth of the region. University has a responsibility of helping faculty to upgrade concepts in line with the technological developments worldwide and also enhance teaching methodologies. Objectives: • The Faculty Development Centre facilitates up-gradation of knowledge, skill and intends to provide opportunities for induction training to teachers employed in various disciplines of Engineering Technology, Pharmacy and management. • Conduct Faculty Development Programmes (FDP) in the areas such as technical education policy, new concepts, methods and techniques, theory and skills development and upgradation of pedagogy educational technology, motivation, communication skills, management and other relevant issues to keep pace with the changing scenario in Technical Education. [• The directorate is established to enhance

the teaching and other skills of the faculty and to make them aware about modern teaching tools and methodologies. It provides an opportunity to acquire knowledge about current technological developments in relevant fields. It will not only promote the professional practices relevant to technical education but also motivates the faculty to achieve competitive teaching and learning environment, thus channelizing development with respect to academic qualifications and personal matters.

3. The Context The context that led to the development of Faculty development Centre is to include the four possible types of development:

1. To Develop Interpersonal and life skills of Faculty members
2. To Develop course design and development, and instructional technology Capabilities of Faculty members.
3. To improve the institutional environment for better teaching support
4. To support faculty members so that they can excel in teaching, research and service.

4. The Practice The professional development initiative for the faculty by JNTUK started soon after the establishment of university. 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.

- Sponsorship for the development programs and participation in national and international conferences.
- Supporting IQAC in Performance evaluation of faculty through API scores of Career Advancement Scheme to promote faculty to higher post.
- Realizing the need for effective teaching, and with a view to enhance the knowledge and skills of faculty members in latest technologies and advanced topics, Faculty development programmes by eminent resource persons from Institutions of Higher learning like IITs, NITs and Industry.

5. Evidence of Success

- 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.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<https://www.jntuk.edu.in/wp-content/uploads/2022/07/JNTUK-BEST-PRACTICES-FOR-AQAR-2018-19.pdf>

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

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 MoUs: i) In line with the institution vision, priority and thrust, the institution has Signed an MoU with Tetrasoft Limited,

USA. ii) Signed an MoU with Toople Ltd, Singapore and it's associate Toople Digital Skills Pvt Ltd, Hyderabad on 16th June 2018.

Provide the weblink of the institution

<https://www.jntuk.edu.in/wp-content/uploads/2022/06/Provide-the-details-of-the-performance-of-for-2018-19.pdf>

8.Future Plans of Actions for Next Academic Year

1. Submission of proposals to state govt. MHRD, RUSA and other funding agencies to get funding for up gradation of information and Lab facilities. 2. Planning of More activities in incubation and IPR activities to develop start up eco system will be done by the incubation and IPR directorate. 3.To improve the Industrial Consultancy Services (ICS) of the institute 4.To get sanction of more AICTE and DST funded project 5.To improve the quality of research, quality publications and patents