

UNIVERSITY COLLEGE OF ENGINEERING VIZIANAGARAM JAWAHARLAL NEHRU TECHNOLOGIAL UNIVERSITY KAKINADA

The Annual Quality Assurance Report (AQAR) of the IQAC

JNTUK-UNIVERSITY COLLEGE OF ENGINEERING

2019-2020

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<u>Part – A</u>

<u>D</u> 1.	<u>Details of the Institution</u> Name of the Institution :	JNTUK-UNIVERSITY COLLEGE OF ENGINEERING
	• Name of the Head of the institution	:Prof. G.SWAMI NAIDU
	• Designation	:PRINCIPAL
	• Does the institution function from own camp	ous :On Campus
	• Mobile no.	: 9963001596
	Registered Email	: gsnaidujntuk@gmail.com
	• Alternate Email	: viceprincipal.admin@ jntukucev.ac.in
	• Address	: JNTUK University College of Engineering
		Vizianagaram – 535 003, AP, INDIA
	• City/Town	: Vizianagaram
	• State/UT	: Andhra Pradesh
	• Pin Code	: 535003
2.	Institutional status:	
	• University: State/Central/Deemed/Private appropriative)	: State (Tick
	• Type of Institution: Co-education/Men/Won	nen : Co-education
	• Location : Rural/Semi-urban/Urban	: Rural

	٠	Financial Status: Centrally funded/state funded/Private :	: Sta	te Fu	nded
	•	Name of the IQAC Co-ordinator/Director			: Prof. G.JAYA SUMA
	•	Mobile			: 8897344078
	•	IQAC e-mail address			: iqac@jntukucev.ac.in
	•	Alternate Email address			: gjsuma.it@ jntukucev.ac.in
3.	V	site address: Web-link of the AQAR: (Previous Academic Year) ether Academic Calendar prepared during the year if yes, whether it is uploaded in the Instituti		YES al wet	osite : YES
5.	Acci	reditation Details	: 1	NIL	
6.	Year	of Establishment of IQAC: 2014			
7.	Inter	nal Quality Assurance System:			
	Establi	pping ethical work culture in JNTUK-UNIVERSITY COI ish and implement quality benchmarks for academic and a vital role in the Institute for coordinating various activiti	adm	inistra	ative activities.

- Plays a vital role in the Institute for coordinating various activities ensuring quality including adoption and dissemination of best methods and practices.
- Organizing inter and intra Institutional Workshops, Seminars, awareness programs, Project Exhibition and Research activities.
- Ensuring a learner-centric ambience conducive for quality education and for continual improvement.
- Emphasize faculty expertise to adopt the knowledge, technology and innovations for participatory teaching and learning process.
- Conduct periodic audits of academic, administrative and research activities for quality assessment.
- Collection of feedback from different stakeholders, Analyze and suggest remedial actions for all stakeholder satisfaction.
- Preparing Annual Quality Assurance Report (AQAR) as per norms.

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- 8. Whether composition of IQAC as per latest NAAC guidelines: Yes/No: Yes
- **9.** No. of IQAC meetings held during the year: 4
- 10. Whether IQAC received funding from any of the funding agency to support its activities during the year? Yes No $\sqrt{}$
- **11.** Significant contributions made by IQAC during the current year
 - Conducted workshops during the academic year 2019-20.
 - Initiated NBA
 - Academic Audit on various Departments.
 - Preparation for Self Assessment Report
 - Empowered with seminars and FDPs

<u>Part-B</u>

CRITERION I – CURRICULAR ASPECTS

1.1 Curriculum Design and Development

1.1.1 Details about Academic Programmes

Programmes/ courses focused on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code		Dept	Course with Code	Date of Introduction
B.Tech (Civil Engineering)		CIVIL	01	2013
B.Tech		MET	31	2011
(Metallurgical Eng	incoring)	MEI	31	2011
B.Tech		EEE	02	2007
(Electrical Enginee	ring)	EEE	02	2007
B.Tech	illig)	ECE	04	2007
(Electronics and Co	ommunication	LCL	04	2007
Engineering)	Jiiiiuiiicatioii			
B.Tech		ME	03	2007
(Mechanical Engin	eering)	1112	05	2007
B.Tech		CSE	05	2007
(Computer Science	Engineering)			2007
B.Tech	0	IT	12	2007
(Information Techr	nology)		_	
M.Tech	0.7		21	2017
(Thermal Engineeri	ng)	MECH		
M.Tech	8/	MECH	15	2013
(Machine Design)		-	-	
M.Tech		ECE	45	2013
(SSP)				
MTech		EEE	50	2013
(Power systems and	Automation)			
M.Tech	,	MET	24	2017
(Material Science &	t Technology)			
M.Tech. (CSE)		CSE	58	2009
		IT	-	2009
M.Tech(IT)				
M.Tech(IT) MCA		IT	1F	2010
MCA		IT	1F	2010
MCA 1.2 Academic Flex			l	2010
MCA 1.2 Academic Flex 1.2.1 New program	ibility nmes/courses introduc		ademic year	2010
MCA 1.2 Academic Flexi 1.2.1 New program Programme/Course	nmes/courses introduc		ademic year Date of introduction	2010
MCA 1.2 Academic Flexi 1.2.1 New program Programme/Course M.Tech (DATA SC	inmes/courses introduc		ademic year	2010
MCA 1.2 Academic Flex 1.2.1 New program Programme/Course M.Tech (DATA SC 1.3 Feedback Syste	nmes/courses introduce IENCE) em	red during the Ac	ademic year Date of introduction 2020-2021	2010
MCA 1.2 Academic Flexi 1.2.1 New program Programme/Course M.Tech (DATA SC 1.3 Feedback Syste 1.3.1 Whether stru	nmes/courses introduc IENCE) em ictured feedback rece	red during the Ac	ademic year Date of introduction 2020-2021 stakeholders.	
MCA 1.2 Academic Flex 1.2.1 New program Programme/Course M.Tech (DATA SC 1.3 Feedback Syste	nmes/courses introduce IENCE) em	red during the Ac	ademic year Date of introduction 2020-2021 stakeholders.	2010

1.3.2 How the feedback obtained is being analyzed and utilized for overall development of the institution? The JNTUK-UNIVERSITY COLLEGE OF ENGINEERING has developed a formal mechanism to get feedback from students regarding the curriculum and teacher performance. Feedback on curriculum is obtained from students, faculty, industry, affiliated colleges, alumni and retired faculty. The Chairman, Board of Studies with the help of the Head of the Department collects feedback on curriculum periodically. The suggestions and comments collected from the feedback will be placed before the Board of Studies for discussion and consideration. The I.Q.A.C. of the JNTUK-UNIVERSITY COLLEGE OF ENGINEERING closely monitors the execution of the formal mechanism designed for collection of feedback on curriculum.

CRITERION II -TEACHING-LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

	Number of	
Name of the Programme	seats available	Students Enrolled
B.Tech(Civil Engineering)	33	33
B.Tech(Metallurgical Engineering	33	33
B.Tech(Electrical Engineering	66	65
B.Tech(Electronics and Communication Engineering	66	63
3.Tech(Mechanical Engineering	66	62
3.Tech(Computer Science Engineering	66	65
3.Tech(Information Technology	66	63
M.Tech(THERMAL ENGINEERING)	20	17
M.Tech(Machine Design)	20	00
M.Tech(SSP)	20	11
MTech(Power systems and automation)	20	19
M.Tech(Material Science & Technology)	20	07
M.Tech. (CSE)	20	07
M.Tech(IT)	20	00
MCA	33	23

2.2 Teaching - Learning Process

Total No. of permanent faculty:

Total	Asst. Professors(C)	Asst. Professors	Associate Professors	Professors
97	55	29	Nil	13
No. of perma	nent faculty with Ph.D:	24		

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

Student mentoring System is available 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.

The COLLEGE is providing scholarships to 80% of its students.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio
1646	97	1:16

2. 3 Evaluation Process and Reforms

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

Programme	Programme Code	Semester/ year	Last date of the	Date of declaration
Name			last semester-	of results of semester-end/
			end/ year- end	year- end examination
			examination	
		I SEMESTER	06-01-2020 to 25-	One month from last
UG	All UG programmes		01-2020	date of exam
		II SEMESTER	22-06-2020 to	
			04-07-2020	
		III and V	28-10-2019 to	One month from last
		SEMESTER	09-11 -2019	date of exam
		VII SEMESTER	21-10-2019 to	One month from last
			02-11 -2019	date of exam
		IV ,VI, VIII	06-04-2020	One month from last
		SEMESTER	to	date of exam
			18-04 -2020	
			03-01-2020 to	Two months from last
PG(MCA)		I SEMESTER	15-02-2020	date of exam
		II SEMESTER	20-07-2020 to	Two months from last
			01-08-2020	date of exam
		III SEMESTER	20-12-2020 to	Two months from last
			02-12-2020	date of exam
	MCA	IV SEMESTER	02-05-2020 to	Two months from last
	MCA		14-05-2020	date of exam
		V SEMESTER	21-10-2019 to	Two months from last
			02-11-2019	date of exam
		VI(Viva Voce)	30-03-2020 to	Two months from last
			11-04-2020	date of exam
		I SEMESTER	03-02-2020 to	Two months from last
PG(MTECH)	All PG courses		15-02-2020	date of exam
		II SEMESTER	20-07-2020 to	Two months from last
			01-08-2020	date of exam

2.4.1 Pass percentag	nance and Learning Outcor ge of students				
Programme Code	Programme name	Number of students appeared in the final year examination	Number of students passed in final Semester /year examination	Pass Percentage	
UG	All UG Programs	744	721	96.91%	
PG	All M.Tech Programs	71	52	73.23%	
	MCA Programs	62	56	90.32%	
CRITERION III – I	RESEARCH, INNOVATIO	ONS AND EXTENSION	N		
3.1 Resource Mobili	zation for Research				
3.1.1 Research fund Organizations	s sanctioned and received f	rom various agencies, i	industry and other		
Items	ame of the faculty member	Project details	Funding Agency	Project Cost (Rs.)	
Projects Dr completed / on going	Ch.S.Rao	Development of Digital Image and Video Forgery Detection System		Rs.7,85,000/-	
K.		A novel ECAR technique to produce AA5083 aluminum alloy with high deformation homogeneity and improved mechanical properties for naval applications		Rs.33,62, 800/-	
Dr	.V.S.Vakula	A project has been sanctioned under RUSA in the year 2020.		Rs.5,17,902/-	
D		A novel ECAR technique to produce AA5083 aluminum alloy with high deformation homogeneity and improved mechanical properties for naval applications".	PCDA	Rs.33,62, 800/-	
3.2 Research Public					
3.2.1 Ph. Ds awarde	d during the year of the Department		No. of Ph. Ds Aw	ardad	
Name1.Information T	=		110. UL F II. DS AW	1	
				1	
2. Mechanical F					
2.Mechanical E3.Electronics ar	nd Communication Engineer	ing		1	

S.No.	Dept.	Papers/Artica s/Books Published	d Book Chapters		Patents	Resour persons	rce		Guest l	ectures
1	CSE	2	4		5	15		2	2	
2	IT	1	1			1		2	2	
3	EEE	1	1					1	-	
4	ECE	4			4	9		1	-	
5	ME					7				
6	MET									
7	CIVIL							1		
8	BS&HS S	33				3				
3.2.3 Fac	ulty partic	cipation in Sem	inars/Confer	ences an	d Symposia durin	g the year :	2019-2	0		
No. of Faculty	Attended Seminars/ Conferen		ferences	No.of publications		FDP/RC/TRAIN PROGRAM/WORK				
	Sem	inar/Webi C nar	onferences		Papers	FDP	RC	OC	TP/S TTP	WS
CSE		7	4		44	16				3
IT		100	4		10	118			6	67
		-			-		1	1		

3.3Extension Activities

EEE

ECE

ME MET

CIVIL

BS/HSS

TOTAL

 3.3.1 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

 NSS Unit
 Name of the NSS Activity

33(IN)

1(N)

_

-

16(IN)

5(N)

-

-

-

-

	Name of the NSS Activity
Plantation programme	12-07-19
FIT INDIA programme	29-08-19
Blood Donation Camp	30-11-2019
Blood Donation Camp	06-12-2019
National Girl Child Day	24-01-2020
World Cancer Day	04-02-2020
Special camp at Dwarapudi Village	06-03-2020 to 12-03-2020
Awareness Program on Corona virus	June 2020

Internat	tional Yog	a day		June 21 202	20
and pr		participating in extension activ s such as Swachh Bharat, Aids g the year		anisations, Non- G	overnment Organisations
Extens	ion activit	ties with Government Organiza	tions		
		RONA VIRUS)			
Sl. No.	Isolaton/	Quarantne centre Established a	t Nodal Officer appointed	Assistant Nodal (Officer appointed
1	JNTU College of Engineering, Vizianagaram		Sri G.Swami Naidu, Principal, JNTU Cell No : 9963001596	D	ri TSN Murthy eputy Warden No : 7673955559
Sno		Extensio	on activities with Governm	ent Organizations	
VMRDA Visakhapatnam- Participated Technical meeting for construction of planetarium		pated Technical meeting for	Technical committee member	Dr	. G. Jaya Suma
	laboratio				
	-	rith institutions/industries for in rch facilities etc. during the yea	-	ng, project work,	
Natu	ire of kage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duratio n (From- To)	Participant
		COMPUT	ER SCIENCE AND ENGI	NEERING	
NTERN	SHIPS	NCR	25,000		16VV1A0538
		NCR	25,000	-	16VV1A0503
		NCR	25,000	1	16VV1A0507
		OPEN TEXT	20,000		16VV1A0525
		OPEN TEXT	20,000	– DURING 2019-20	16VV1A0529
		OPEN TEXT	20,000		16VV1A0539
		TILICHO	20,000	1	16VV1A0543
		TILICHO	20,000	1	16VV1A0565
		INF	ORMATION TECHNOL	OGY	1
INTE	RNSHIPS				
S.No		Year	Name of the Student	Name of the organ	nization
1		IV B.Tech	Mr P Suresh	C2N IT Services	Employee Monitoring System With Screening Hacker
2		IV B.Tech	Mr G Chandra Vamsi	C2N IT Services	Employee Monitoring System With Screening Hacker
3		IV B.Tech	Ms M Bhavani	Robocoupler Techno services	"Data Science Using Python"
4		III B.Tech	Ms.V.Deepika Rani	Indian Services	MACHINE LEARNING
5		III B.Tech	Ms.G.Prakhya	Indian Services	MACHINE LEARNING
6		III B.Tech	Ms.B.LakshmiPrasanna	Indian Services	MACHINE LEARNING

				•					
7	II B.Tech		Ms.N.Tejaswi	Indian Services	MACHINE LEARNING.				
8 1	II B.Tech		Ms.B.Sojanya	Indian Services	MACHINE LEARNING.				
9]	II B.Tech		Ms.S.Suma	Indian Services	MACHINE LEARNING.				
10	II B.Tech		Ms.D.Bharamarambika	a Swecha AP					
11	II B.Tech		Ms.D.Bharamarambika	a Cognibot	AI, ML, AND IIOT.				
12	III B.Tech		MsPedapudiKusuma Lakshmi Tulasi	Cognibot	AI, ML, AND IIOT.				
		Electror	nics and Communication E	Engineering					
INTERNSHIPS									
1	IV B.Tech16	OVV1A0445	R.S.V.GIRISH E	ECIL	08-05-2019 to 07-06-2019				
2	II B.Tech16	VV1A0421	K.SAI KISHORE	BSNL	13-05-2018 to 08-06-2018				
3	II B.Tech16	VV1A0423	K.RAVEENA	BSNL	17-05-2018 to 02-06-2018				
4	II B.Tech16		S.SIREESHA	DRDO	24-05-2018 to 18-06-2018				
_	II B.Tech16		V.RENUSRI	DRDO	24-05-2018 to 18-06-2018				
- 1	III D. ICCIIIO	v v 1A0434							
3.4.2 MoUs signed	with institut	ions of national.	international importance,	, other universities,					
industries, corpora	te houses et								
Organisation		Year		Purpose and Activ	vities				
PvtLtd.	2.(01- Schneider Electric nprocess)		Industrial Visits, In-	Exchange expertise for mutual benefit and growth, in the areas of Industrial Visits, In-plant Training, Internships, projects, Research & Development, Placements, and Establishing Advanced Labs etc.					
- (())	2019-20							
4.One- Natsoft				Internships and place	ements				
5.EDU Skills					nnologies and provide them				
6.CISCO Networking 7. Blue Prism Acader 8.Amazon Web Servi Academy	my (BPA)		• Develop the fou manage netwo	 with internship and placement opportunities Develop the foundational ICT skills needed to design, build, and manage networks, along with career skills such as problem solving, collaboration, and critical thinking. 					
9.RED HAT ACADEMY 10.Paloalto Cyber Security Academy 11.Supraja Technologies (ISO 9001:2015 Certified Company) 12.Blackbuck Technologies 13.Swecha Learning Center (SLC)'			• The students to get globally recognized Blue Prism certification get exposure to EduSkills and build in-demand skills and be an early adopter in a fast-growing tech area To help students reach their academic and career potential.						
 14. TCS on Tata Affirmative Action Program (TAAP) 15.Services Limited M/s Sarda Metals & Alloys Itd. Visakhapatnam 			• Exchange exper Industrial Visi	ts, In-plant Training,	dents it and growth, in the areas of Internships, projects, Research stablishing Advanced Labs etc				
Ltd., Visakhapatnam 16. Sarda Metals & A Kottavalasa.			-	ject works/Industrial	e students of B.Tech by way o visits etc. to the extent o				

• To provide Industry orientation /Practical training in various Engineering domains to the faculty members with mutual agreement of both the parties.
 To nominate experts to deliver special lectures to the students of B.Tech-Metallurgical Engineering

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1.2 Library Services:							
SNo	Name of The Branches	No of Titles	No of Volumes	Total Volumes			
l	CIVIL	225	1021	1246			
2	EEE	492	2515	3007			
3	Mech	535	2734	3269			
L I	ECE	542	2895	3396			
5	CSE	449	2903	3352			
5	IT	333	2728	3061			
7	MET	115	832	942			
3	BS&HSS	3358	2594	2952			
)	MANAGEM ENT	-	-	635			
0	M.TECH(EE E,ECE,CSE,I T &ME)	-	-	785			

Steps are taken to increase faculty participation for developing e-content

4.2 IT Infrastructure added for 2019-20 4.2.1 Technology Upgradation (overall)

	Total	Comp	Int	0	Office De			Dep	Departments					Available	Other				
	Comp uters	uter Labs	ern et	PO	TPO	ES	EO	\mathbf{C}	LIBRARY HO	IQAC	IT	CSE	MET	CI VI L	EE E	EC E	BS & HS S	Band (MBPS)	S
Existing	532	10	YE S	1 1	2	1 2	1	1	1 3 0	32	13 2	162	05	02	36	75	78	150MBPS	
Added																		-	
Total	532	10	YE S				42				490)						150MBPS	

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

College:150MBPS connectivity and BSNL Network (Leased line) Library:10 MBPS NKM(National Knowledge Mission)

4.3 Maintenance of Campus Infrastructure

4.3.2 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)

Every year, resources are allocated both for maintenance and development depending on the requirement of Departments on a priority basis to ensure that the programmes offered by them are successful. Whenever a new equipment is bought, a stock register is maintained duly signed by the head of the department or laboratory in charge. Any new book or equipment is purchased for library, the honorary library in charge will maintain the stock as and when needed.

CRITERION V - STUDENT SUPPORT AND PROGRESSION

5.1 Student Support

5.1.1	Scholarships a	nd Financial S	upport

S.No	Yea r	Name of the Scholar	Caste	Total No. of Students	Total amount Released RTF	100%	75%	50%	25%
			SC	121	16,74,400	121	0	0	0
			ST	29	3,30,975	29	0	0	0
			BC	584	80,65,400	584	0	0	0
	2019	JNANABHUMI (State)	DW	0	0	0	0	0	0
1	-20	× ,	EBC	75	11,94,500	75	0	0	0
			MW	47	5,81,100	47	0	0	0
			KAPU	55	8,81,775	55	0	0	0
		NSP (Central)		141					

5.1.3 Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year :

The Women Empowerment and Grievance Cell (WE& GC) @ JNTUK-UNIVERSITY COLLEGE OF ENGINEERING has been constituted to empower and safeguard the rights of female fraternity of this College. It was started to empower female fraternity to recognize their true potentials to attain their own stand in a competing world. The WE& GC works to promote gender sensitivity in the college 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.

Its aim is to create awareness about important issues related to female fraternity to provide a forum for discussion and deliberation on a range of issues from empowerment to environment.

It seeks to empower young women to attain emotional, physical and mental freedom to withstand the changing phases which thrives mile stones of success in their life.

WE & GC functions with the added aim to enhance self-esteem and dignity of female fraternity and empower them in taking pertinent decisions.

Total grievances Received	No. of grievances Redressed	Average number of days for grievance redressal				
2	2	10				
5.2 Student Progression		•				
5.2.1 Details of campus place	cement during the year					
On	campus	Off Campus				

Name of Organizations Visited	Number of Students Placed	Name of Organizations Visited	Number of Students Placed
Apps Associates	06	HCL	4
TCS	39		
Hyundai Motors	01		
Infosys	03		
CTRLS	01		
NCR Corporation	04		
Cognizant	19		
Infosys	29		
Soctronics	01		
Wipro	11		
IBM	02		
CERIUM SYSTEMS	04		
Everglades Technologies	02		
Efftronics	04		
Sails Software Solutions	14		
Total	140		

5.2.2 Details of Higher Studies

Year Year Number of students enrolling into higher education		Roll No	Department graduated from	Name of institution joined	Name of Programm e admitted to
	4	16VV1A1213		Hyderabad Central University	M.Tech
		16VV1A1227	IT	Hyderabad Central University	M.Tech
		16VV1A1235		NIT Patna	M.Tech
		16VV1A1254		ILLINOIS STATE UNIVERSITY Normal, Illinois ,USA	MS
	1	16VV5A0261	EEE	JNTUK	M.Tech
	3	16VV1A0430	ECE	GRE	M.S
2019-20		16VV1A0414		GRE	M.S
2017 20		16VV1A0427		XAT	MBA
	5	16VV1A0512	CSE	California State University, USA	GRE Score:322
		16VV1A0526		GOT ADMISSION IN US	GRE Score:320
		16VV1A0534		Arizona State University, USA	GRE Score:320
		16VV1A0542		M.Tech NIT WARANGAL	GATE Rank:416
		16VV1A0546		GOT ADMISSION IN US	GRE-VR-140 QR-164 AW-2.5 IELTS- 6.5

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)

CSE 15VV1A0502 673 GATE (Qualified) 15VV1A0510 851 GATE (Qualified) 15VV1A0514 1700 GATE (Qualified) 15VV1A0534 2469 GATE (Qualified) 15VV1A0537 2966 GATE (Qualified) 15VV1A0545 3415 GATE (Qualified) 15VV1A0545 3415 GATE (Qualified) 15VV1A0540 10776 GATE (Qualified) 15VV1A0540 10776 GATE (Qualified) 15VV1A0541 4546 GATE (Qualified) 16VV1A0207 12294 GATE (Qualified) 16VV1A0214 10213 GATE (Qualified) 16VV1A0249 21033 GATE (Qualified) 16VV1A0249 21033 GATE (Qualified) 16VV1A0251 8886 GATE (Qualified) 16VV1A0262 12294 GATE (Qualified) 16VV1A0262 12294 GATE (Qualified) 16VV1A0255 7749 GATE (Qualified) 16VV1A0262 12294 GATE (Qualified) 16VV1A3107	ROLLNO	RANK	STATUS
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5.3 Studer	nt Participation and Acti	vities					
	ber of awards/medals fo nternational level (award		-	-		ies at	
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1	P. Gowtham Akhil	Athletics		II Year	Inter Collegiate	Aditva Enga	Silver Medal
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2	B.Srinu	Athletics	17VV1A01	III Year	Inter Collegiate	Aditya Engg	Silver Medal
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		Relay	01		Champion Ship	Surampalem	
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3	K.Prasad	Athletics 4X400Mts	18VV1A02	III Year	Inter Collegiate		Silver Medal
		AX400Mts Relay	62		Athletics	College, Surampalem	
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4	S.Pavan Kumar	Athletics 4X400Mts	17VV1A02 46	III Year	Inter Collegiate	Aditya Engg	Silver Medal
		Relay	40		Athletics	College, Surampalem	
		Relay	_		Champion Ship	Surumpurem	
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5	K. Maheshwari Devi	Athletics	19VV1A04	I Year	Inter Collegiate	Aditya Engg	Silver Medical,Bronze
		800Mts 4X100Mts	29			College,	Medical
		Relay			Champion Ship	Surampalem	
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~	V Inotanar:	Athlating	18VV1A03	1	Inten Calleriat	A ditus France	Duongo Madiant
6	K.Jyotsnavi	Athletics 4X100Mts	18VV1A03 17	II Year	Inter Collegiate	Aditya Engg College,	bronze Medical
		Relay	1/		Athletics	Surampalem	
7	V Sive Lesve		1077/1402	I Vaar	Champion Ship	-	Dronzo Modical
7	K.Siva Lasya	Athletics 4X100Mts	19VV1A03 29	I Year	Inter Collegiate	College,	Bronze Medical
		Relay	27		Athletics Champion Ship	Surampalem	
			N/	ЕТ		r	
	011. D	A (1.1					
8	Sandhya Rani	Athletics 4X100Mts	19VV1A31 26	I Year	Inter Collegiate	Aditya Engg College,	Bronze Medical
		Relay	20		Athletics	Surampalem	
		ittiny			Champion Ship	Surumparent	

institution :

Students are the backbone of any college and they play a major role in the progress of the university/college/department. At department level class representatives (CR's) are elected at the starting of the academic year to act as point of contact between department and their classmates. They are responsible for student interaction and involvement in day to day activities. At college level student union bodies are active and they participate in technical discussions and overall development of the college. Every Board of studies in each and every department has external members from state universities, NIT's, IIT's, industry and student member (alumni) to participate in the discussions.

5.4Alumni Engagement

5.4.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details :

Yes, institution has been registered.

- 1. Alumni actively participate in Department Academic meetings for curriculum development.
- 2. Deliver guest lecturers/Invited Talks
- 3. Support for Placement & Internships
- 4. Support start-ups & student projects
- 5. Students mentoring
- 6. Alumni chapter meet at regular intervals at different locations

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

JNTUK University College of Engineering Vizianagaram is one of the constituent Engineering Colleges of JNTUK playing a vital role in imparting Technological Education in the state of Andhra Pradesh since its establishment in the year 2007. The state-of-the-art campus is spread across 80 Acres in Dwarapudi panchayat at a distance of 8 KMs from Vizianagaram. It functions under the directions of Executive Council, Vice chancellor and Registrar of JNTU Kakinada. Principal is the executive head of the institution and Chairman of the College academic committee comprising all professors and heads of the departments. The Vice Principal, Heads of the departments and Members of College academic committee help in academic administration and effective functioning of the Institution.

Vision

To emerge as a premier technical Institution in the field of engineering and research with a focus to produce professionally competent and socially sensitive engineers capable of working in a multidisciplinary global environment. **Mission**

To provide high quality technical education through a creative balance of academia and industry by adopting highly effective teaching learning processes

To promote multidisciplinary research with a global perspective to attain professional excellence

To establish standards that inculcate ethical and moral values that contribute to growth in the Career and development of society.

6.2 Strategy Development and Deployment

6.2.1 Quality improvement strategies adopted by the institution for each of the following:

Curriculum Development: JNTUK-UNIVERSITY COLLEGE OF ENGINEERING Organized workshops at department level involving experts from industry/research organizations.

- The Board of studies at PG and UG levels are constituted with members from industry, expert faculty and student representatives.
- The feedback collected from students and alumni for curriculum and suggestions were placed in BOS meetings. High Priority is given for employability and value based education.
- Choice Based credit system is initiated in all departments

Teaching and Learning : The academic schedule and teaching plans are formulated in advance and conducted meticulously during the academic year 2019. The faculty accepts traditional as well as modern teaching methods. In most of the programs, student workshops, assignments, projects, field work and internships are part of the curriculum. Students are given academic guides to communicate outside classrooms. Advanced learners and research students collaborate with faculty members on research projects. Special awards are recognized and presented to meritorious students. Student input on teacher success is routinely obtained and evaluated, and steps are taken to enhance the consistency of the teaching learning process based on that.

The following are the key factors contributing to the effectiveness of teaching-learning and evaluation.

- Differential methods to promote slow learners and advanced learners
- Efficient implementation of schedules and teaching plans for academics
- Concentration on experiential learning and participatory learning
- Involving industry and other research and academic institutions' experts
- Extensive use of ICT outside classrooms in teaching and learning
- Prevalence of student-centered learning setting
- Relationship between Mentor and Mentee

Examination and Evaluation: Two midterm examinations and one Semester end examination are conducted.

- Revaluation and challenge assessment are permitted.
- The student is provided with a photocopy of the script on request.
- Publication of outcomes within 1 month.
- Tatkal Certificate Issue Scheme.
- Online publication of observations
- Improved security capabilities for online and offline certificate generation.

Research and Development :

- Creating interdisciplinary and multidisciplinary research teams.
- Conference organizations/seminars/workshops/training programs.
- Sponsoring faculty for conferences/workshops/seminars.
- Encouraging faculty to buy projects.
- Establishment of commissions and college committees for department study.
- Inviting Fellows to come.
- Creating awareness among research students and community on SCOPUS indexing and other parameters like h-index etc.
- Encouraging staff and students to publish only in reputed and peer reviewed journals

Library, ICT and Physical Infrastructure / Instrumentation:

- 1. The printed books, national and international journals on various subjects of reputed publishers to enhance the advanced knowledge and skills of students and faculty.
- 2. The commutative entrance books, magazines, news papers, placement and personality development books for updating their knowledge.
- 3. The e-resources of e-journals, e-books, video lectures(like NPTEL), audio lectures of various publisher are made available in the Digital Library for effective teaching learning process
- 4. The Learning materials, Previous Question Papers, Project Reports of all departments are made available in the Central Library and Department libraries.
- 5. DELNET Facility is available in the central library.
- 6. Multimedia animated lectures and Prototype models are used to teach the various subjects like ED, Machine design etc., for effective interpretation and understanding of the content

Human Resource Management: JNTUK-UNIVERSITY COLLEGE OF ENGINEERING is having structured quality improvement strategy to train the pool of human resource.

- By attending and organizing conferences/seminars/workshops/training programs, it promotes its faculty to improve their teaching and research skills.
- To develop their expertise, JNTUK-UNIVERSITY COLLEGE OF ENGINEERING has arranged many training programmes for faculty and non-teaching staff.
- JNTUK-UNIVERSITY COLLEGE OF ENGINEERING has introduced faculty exchange programs to provide faculty members the ability to meet and communicate with reputable foreign research organizations.

Industry Interaction / **Collaboration**: JNTUK-UNIVERSITY COLLEGE OF ENGINEERING has interactions and partnerships in India and abroad with renowned research organizations, industries and institutions. During the academic year 2019-20, 15 MOU's are signed under academic and industry collaboration with various organizations.

Admission of Students: The JNTUK-UNIVERSITY COLLEGE OF ENGINEERING has an admission system that is well organized and transparent. In accordance with the rank obtained in the Common Entrance Test or marks obtained in qualifying examinations and in accordance with the rule of reservation as stated by the Government of Andhra Pradesh, all admissions are based on merit. The whole process of admission is computerized. Candidates seeking admission are expected to submit applications online and to take part in the University Entrance Exam. The admission process will take place based on the choices provided by the candidates. Admission counseling is arranged in order to assist the students in choosing the course and associated colleges, if any.

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

- Planning and Development : In progress
- ✤ Administration : Partially
- Student Admission and Support: Student admission/ counseling are done online. A separate office and a nodal officer are appointed by the authorities for smooth conduct of the admissions. All UG and PG admissions are made online
- * Examination: Pre and post examinations are made online. Enhanced security features for original degrees.

OMR technology introduced to reduce the time taken to declare the results.

6.3 Faculty Empowerment Strategies

6.3.1 Welfare schemes for	
Teaching(REGULAR)	Yes PF, Financial assistance for acquiring Ph.Ds, Special leaves, health centres, staff quarters, CPS
Teaching(CONTRACT)	Yes Financial concession of admission of candidates Ph.Ds in JNTUK, health centres, staff quarters
Non Teaching	Yes PF, health centres, life insurance schemes
Students	Yes 24×7 Medical assistance,Placement assistance, Student Counselling, Coaching for higher studies and Competitive Exams, health,library, sports, e-learning facilites

6.4 Internal Quality Assurance System

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

Yes, AAA will be done by IQAC internal and external committee members

6.4.2 Number of Quality Initiatives undertaken during the year

SNo	Item /Title of the quality initiative by IQAC	Date & duration	Number of participants/beneficiaries
1	5 Day FDP on "MOODLE Learning Management System" in collaboration with IITB spoken tutorials	22-07-2020 to 26-07-2020	58
2	A 15 day online FDP on "Data Science and it's Applications in STEM "	07-09-2020 to 21-09-2020	750
3	Workshop on "Systems office Administration and Fundamentals" in collaboration with IITB spoken tutorials	16-09-2020 to 30-09-2020	60
		(3PM to 5 PM)	

CRITERION VII – INNOVATIONS AND BEST PRACTICES

7.1 - Best Practice - I

Title: "Encouragement to Faculty for Pursuing Ph. D and Research Publications"

Goal of this practice: The institution encourages faculty to pursue their Ph.Ds at respectable institutes by offering financial concessions to parent universities and academic leaves to resolve the shortage of doctoral degrees from faculty. This has contributed to the cultivation of a research community, quality publications and an improved learning process for teaching.

The Context:

In the initial stages of the Institution, there was a dearth of faculty having Doctoral Degrees.

The Practice:

Encouraging faculty to register for Ph.D Programs at reputed institutes like IITs, NITs, Government Universities etc.For Registered candidates, the Institution provides Academic leaves with financial assistance for attending Ph.D course work.

- The Academic Leaves are sanctioned for conducting scientific discussions from time to time.
- Sponsoring faculty members through the required help at various workshops, national and international conferences/seminars in India and abroad.

- An academic leave of up to six months is sanctioned at the submission stage of the Ph.D. •
- A major increase in the pay package is granted after receiving the Ph.D degrees.
- Incentives for Research Publications in Reputed Journals. •
- In-house research funding is provided for the promotion of R&D.

Evidence of Success:

After exercising this practice, the number of Ph.Ds are increased and 29 faculty are pursuing Ph.D. List of Faculty Members Benefited.

S.No	Details	No. of Faculty Benefited
1	No. of Faculty persuing for Ph.D Programs	29
2	No. of Faculty availed/availing Academic Leaves for Ph.D course work	3
3	No. of Faculty participated in Workshops/Conferences/Seminars	97
4	No. of Faculty awarded Ph.D degrees	25

7.2.Best Practice II

Title: "Improvement of skills through the Mentoring Framework to develop projects of social significance"

Goal of this Practice:

Goal of this practice includes motivating the students to enhance their knowledge and skill levels through mentoring system, in turn to develop social relevance projects that enable them to become industry ready. **The Context:**

Most of the students joining our institution hail from rural background and from vernacular medium of study. It has become a major challenge to transform them into self sustained engineers.

The Practice:

Various activities under this practice are:

- Implementing a teacher-student is to poor performers towards excellence and slow learners to achieve the minimum standard of qualification.
- Students are motivated to maintain a strong academic track record by encouraging them to be aware of the new technical advances. Imparting practical exposure to students in latest technologies by arranging industrial visits/in-plant trainings.
- Students are allowed to share their ideas, by allowing them to present papers at various National / International conferences.
- To give students practical exposure to the latest technologies through the organization of industrial visits/in-plant training. Different personality development and soft skill training programs are conducted in order to turn students into the future leaders of the society of tomorrow.
- Constant motivation of students to create new ideas relating to social problems.
 Evidence of Success:

As a result of this practice, a discernible positive change has been observed in the morale of the students in addition to few of the outcomes listed below:

More than 85% of pass percentage is maintained consistently.
 Problems Encountered: As technology is evolving rapidly, it has become difficult for the company to integrate all those rapid changes into the skills development process.

Resources Required: In the Budgetary Allocations, provision is made to organize training programs.

7.3 Best Practice III

" Education with the goal of community service "

This Practice:

Encourage students to engage in community service to instill in them social responsibility, teamwork and organizational skills.

The Context

As the institution is in a modest rural setting, in order to inculcate social responsibility, students are

required to

resolve community problems such as cancer awareness, illiteracy, corona virus, blood donation, etc. The Practice

To inculcate the social responsibility, leadership and organizational skill among students,

following are some of the practices:

- By involving students to understand the ethos of rural life and its issues through surveys, several social service camps are organized periodically in the nearby villages.
- Plantation, Blood Donation Camps, legal awareness program are conducted.

8. Future Plans of action for next academic year

JNTUK-UNIVERSITY COLLEGE OF ENGINEERING is designed to adopt, to change, to be applied from time to time in order to recognize the objectives and achieve the goals. The following are the future plans and initiatives of the JNTUK-UNIVERSITY COLLEGE OF ENGINEERING not only to sustain and maintain the current status, but also to ensure that the college is constantly upgraded to stand on par with every other institution of higher education in the region. Promoting global student competency by growing cooperation with globally renowned organizations and incorporating additional twining initiatives.

- Centralized computational laboratories are to be strengthened
- Departmental libraries are to be strengthened.
- The value-based education framework is being further reviewed and encouraged.
- Study facilities are improving and also fostering a safe environment of research.
- To grow into a paperless workplace.
- Promoting for E-office

Gil maline. TOAC coordinator

principal Principal **JNTVK University College of Engineering** Vizianagaram