

# The Annual Quality Assurance Report (AQAR) of the IQAC

## 2017-18

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. *(Note: The AQAR period would be the Academic Year. For example, July 1, 2012 to June 30, 2013)*

### Part – A

#### I. Details of the Institution

1.1 Name of the Institution

Usha Rama College of Engineering and Technology

1.2 Address Line 1

on NH-16, Telaprolu

Address Line 2

Ungutur Mandal

City/Town

Near Gannavaram, Krishna District

State

Andhra Pradesh

Pin Code

521109

Institution e-mail address

principal@usharama.in

Contact Nos.

Principal – 9177712255

Name of the Head of the Institution:

Dr G V K S V Prasad

Tel. No. with STD Code:

0866-2527567

Mobile:

9177712255



Name of the IQAC Co-ordinator:

Dr A Madana Mohana Rao

Mobile:

9177412255

IQAC e-mail address:

viceprincipal@usharama.in

1.3 NAAC Track ID (For ex. MHCogn 18879)

APCOGM26201

1.4 NAAC Executive Committee No. & Date:

(For Example EC/32/A&A/143 dated 3-5-2004.

This EC no. is available in the right corner- bottom of your institution's Accreditation Certificate)

EC(SC)/16/A&A/10.1 dated July 11, 2016

1.5 Website address:

www.usharama.edu.in

Web-link of the AQAR:

<https://www.usharama.edu.in/naac/AQAR-2017-18-report>

For ex. <http://www.ladykeanecollege.edu.in/AQAR2012-13.doc>

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	A	3.04	2016	5 Years
2	2 <sup>nd</sup> Cycle	-	-	-	-
3	3 <sup>rd</sup> Cycle	-	-	-	-
4	4 <sup>th</sup> Cycle	-	-	-	-

1.7 Date of Establishment of IQAC :

DD/MM/YYYY

09/11/2015

1.8 AQAR for the year (for example 2010-11)

2017-18

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((for example AQAR 2010-11 submitted to NAAC on 12-10-2011)

- AQAR 2016-17\_\_\_\_\_ (01/11/2017)
- AQAR 2017-18\_\_\_\_\_ (01/11/2018)
- AQAR\_\_\_\_\_ (DD/MM/YYYY)
- AQAR\_\_\_\_\_ (DD/MM/YYYY)



### 1.10 Institutional Status

University State ☐ Central ☐ Deemed ☐ Private ☒

Affiliated College Yes ☒ No ☐

Constituent College Yes ☐ No ☒

Autonomous college of UGC Yes ☐ No ☒

Regulatory Agency approved Institution Yes ☒ No ☐

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution Co-education ☒ Men ☐ Women ☐

Urban ☐ Rural ☒ Tribal ☐

Financial Status Grant-in-aid ☐ UGC 2(f) ☒ UGC 12B ☐

Grant-in-aid + Self Financing ☐ Totally Self-financing ☒

### 1.11 Type of Faculty/Programme

Arts ☐ Science ☐ Commerce ☐ Law ☐ PEI (Phys Edu) ☐

TEI (Edu) ☐ Engineering ☒ Health Science ☐ Management ☐

Others (Specify)

### 1.12 Name of the Affiliating University (*for the Colleges*)

Technological University Kakinada (JNTUK)  
KAKINADA-533003, A P, India.



### 1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University

Applied

University with Potential for Excellence

-

UGC-CPE

-

DST Star Scheme

-

UGC-CE

-

UGC-Special Assistance Programme

-

DST-FIST

-

UGC-Innovative PG programmes

-

Any other (*Specify*)

-

UGC-COP Programmes

-

## **2. IQAC Composition and Activities**

2.1 No. of Teachers

07

2.2 No. of Administrative/Technical staff

02

2.3 No. of students

02

2.4 No. of Management representatives

01

2.5 No. of Alumni

01

2.6 No. of any other stakeholder and  
community representatives

01

2.7 No. of Employers/ Industrialists

01

2.8 No. of other External Experts

00

2.9 Total No. of members

15

2.10 No. of IQAC meetings held

03

2.11 No. of meetings with various stakeholders:

No.

03

Faculty

01

Non-Teaching Staff Students

01

Alumni

01

Others

-



2.12 Has IQAC received any funding from UGC during the year? Yes ☐ No ☒

If yes, mention the amount

-

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos.  International  National  State  Institution Level

(ii) Themes

Quality Assurance in Higher Education Institutions

2.14 Significant Activities and contributions made by IQAC

IQAC is involved in improving the standards in different dimension of academic and administration of the Institute:

- Implementation of outcomes measurement for the courses in the program.
- Standardization of internal assessment pattern for all UG programs.

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year \*

Plan of Action	Achievements
To impart quality education	1)Quality of assessments and teaching aids are enhanced 2)Infrastructural facilities for better learning environment are improved 3)Semester wise academic data from HODs for analysis is collected and reviewed periodically 4) Feedback is taken from all stakeholders for the continuous improvement of teaching-learning process.
To provide need based teaching	1) Additional Review/Remedial lectures and practical sessions are arranged for the needy. 2) Support from expert guest faculty from industry and academia is taken and guest lectures are arranged.
To encourage staff and students participation in seminar, workshop and conferences	1) Many faculty members attended FDPs to enhance their domain expertise and knowledge of latest trends.



To improve student performance on the basis of continuous monitoring	Software facility is designed and deployed to facilitate the faculty to enter attendance on hourly basis and coverage of syllabus is periodically monitored.
To send SMS alerts to the parents about progress of their ward	1) Alerts of attendance and performance of students are sent to the parents. 2) Communication to the parents on progress of their ward is done to 1:20 counselling system.

*\* Attach the Academic Calendar of the year as Annexure.*

2.15 Whether the AQAR was placed in statutory body      Yes ☒      No ☐

Management ☒      Syndicate ☐      Any other body ☐

Provide the details of the action taken

The IQAC meets regularly to discuss various issues relating to teaching-learning process. R&D, Placements of final year students. The plans of IQAC are submitted to the principal, who intern discusses with the Director and all the heads of the departments for appropriate plan of action.



## Part – B

### Criterion – I

#### I. Curricular Aspects

##### 1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	-	-	-	-
PG	4	-	4	-
UG	6	-	6	-
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	-	-	-	-
Others	-	-	-	<ul style="list-style-type: none"> <li>• IBM CE training programs -6</li> <li>• TREAT a summer training for placements -1</li> <li>• Project oriented training for final year students by ORL Industries-1</li> <li>• APSSDC-1</li> </ul>
<b>Total</b>	10	-	10	9

Interdisciplinary	-	-	-	-
Innovative	-	-	-	-

##### 1.2 (i) Flexibility of the Curriculum: Elective option ✓

##### (ii) Pattern of programmes:

Pattern	Number of programmes
Semester	✓(10)
Trimester	-
Annual	-

##### 1.3 Feedback from stakeholders\* (On all aspects)

Alumni ☒ Parents ☒ Employers ☒ Students ☒

Mode of feedback : Online ☒ Manual ☒ Co-operating schools (for PEI) ☐

*\*Please provide an analysis of the feedback in the Annexure*



1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

The University revised the existing syllabus for all the branches of B Tech program (R-16 Regulation), in which more stress is given to subjects where there is a huge demand in the job market. For ex, in CSE/IT streams the courses like R-Programming and Python Programming are introduced.

1.5 Any new Department/Centre introduced during the year. If yes, give details.

Usha Rama Innovation and Incubation center (U-309)

## Criterion – II

### 2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
176	125	34	17	-

2.2 No. of permanent faculty with Ph.D.

17

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
15	0	0	0	3	0	1	0	19	0

2.4 No. of Guest and Visiting faculty and Temporary faculty

-

-

-

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	3	11	1
Presented papers	2	9	1
Resource Persons	-	5	-

2.6 Innovative processes adopted by the institution in Teaching and Learning:

We are using MOOCs (organised by JNTUK University) classes to provide enhanced learning for the benefit of students.  
A good number of video lessons from NPTEL are provide and available in central facility like Library and are being used by both students and faculty for better understanding of the subjects



2.7	Total No. of actual teaching days during this academic year	192		
2.8	Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)	-		
2.9	No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop	03	-	-
2.10	Average percentage of attendance of students	89 %		



2.11 Course/Programme wise distribution of pass percentage :

B.Tech	I Class(in percentage)	II Class(in percentage)	Overall(in percentage)
CIVIL	58.8	41.17	29
CSE	96.92	3.07	67.7
ECE	98.86	1.13	65.67
EEE	51.35	32.4	84
IT	75	25	50
MECH	100	NIL	41.46

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes :

- Collects course files randomly and assesses the process followed by the teacher and attainment of course outcome.
- Conducts workshops on teaching-learning process.
- The IQAC makes policies and procedure to enhance the teaching-learning .
- Prepares action report and hand over it to the principal for appropriate action and implementation.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	128
UGC – Faculty Improvement Programme	27
HRD programmes	-
Orientation programmes	-
Faculty exchange programme	-
Staff training conducted by the university	-
Staff training conducted by other institutions	-
Summer / Winter schools, Workshops, etc.	46
Others	-



#### 2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	75	0	10	0
Technical Staff	44	0	5	0



## Criterion – III

### 3. Research, Consultancy and Extension

#### 3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

An R&D cell is constituted in the college to guide and motivate the young faculty members to carry out their research activities. The members of the cell meets regularly to discuss about latest trends in the research activities and the necessary steps to be taken to promote the research.

#### 3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	1	1	-	-
Outlay in Rs. Lakhs	24 L	16 L	-	-

#### 3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	11	2	-	-
Outlay in Rs. Lakhs	5 L	1 L	-	-

#### 3.4 Details on research publications

	International	National	Others
Peer Review Journals	76	4	
Non-Peer Review Journals	-	-	-
e-Journals	-	-	-
Conference proceedings	-	2	-

#### 3.5 Details on Impact factor of publications:

Range  Average  h-index  Nos. in SCOPUS

#### 3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	-	-	-	-
Minor Projects	-	-	-	-
Interdisciplinary Projects	-	-	-	-
Industry sponsored	-	-	-	-
Projects sponsored by the University/ College	-	-	-	-
Students research projects (other than compulsory by the University)	-	-	-	-
Any other(Specify)	-	-	-	-
Total	-	-	-	-

3.7 No. of books published i) With ISBN No.  Chapters in Edited Books

ii) Without ISBN No.



3.8 No. of University Departments receiving funds from

UGC-SAP	<input type="text" value="-"/>	CAS	<input type="text" value="-"/>	DST-FIST	<input type="text" value="1"/>
DPE	<input type="text" value="-"/>			DBT Scheme/funds	<input type="text" value="-"/>

3.9 For colleges

Autonomy	<input type="text" value="-"/>	CPE	<input type="text" value="-"/>	DBT Star Scheme	<input checked="" type="checkbox"/>
INSPIRE	<input type="text" value="-"/>	CE	<input type="text" value="-"/>	Any Other (specify)	<input type="text" value="-"/>

3.10 Revenue generated through consultancy

1.1 Lakhs

3.11 No. of conferences

organized by the Institution

Level	International	National	State	University	College
Number	1	-	-	-	-
Sponsoring agencies	URCET	-	-	-	-

3.12 No. of faculty served as experts, chairpersons or resource persons

5

3.13 No. of collaborations

International

National

Any other

3.14 No. of linkages created during this year

2

3.15 Total budget for research for current year in lakhs :

From Funding agency

From Management of University/College

5 lakhs

Total

5 lakhs

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	-
	Granted	-
International	Applied	-
	Granted	-
Commercialised	Applied	-
	Granted	-

3.17 No. of research awards/ recognitions received by faculty and research fellows  
Of the institute in the year

Total	International	National	State	University	Dist	College
2	-	1	-	-	-	1

3.18 No. of faculty from the Institution  
who are Ph. D. Guides  
and students registered under them

5

10



3.19 No. of Ph.D. awarded by faculty from the Institution

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF  SRF  Project Fellows  Any other

3.21 No. of students Participated in NSS events:

University level  State level   
National level  International level

3.22 No. of students participated in NCC events:

University level  State level   
National level  International level

3.23 No. of Awards won in NSS:

University level  State level   
National level  International level

3.24 No. of Awards won in NCC:

University level  State level   
National level  International level

3.25 No. of Extension activities organized

University forum  College forum   
NCC  NSS  Any other



3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility:

- Swachh Bharat Campaign
- Vanam – Manam Programme – Plantation [The Sapling Project]
- Blood Donation.
- National Defense Fund.
- Energy Conservation and Management.
- Health Campaigns [Anti Drug, Anti Liquor, Anti Tobacco]
- Skill Acquisition Programme.
- Women Empowerment.
- Special Camp:
- Plantation in public areas, Distribution of Plants & Awareness on afforestation
- Awareness on Physical Education.
- Free Medical camp & Awareness on Health problems.
- Training on yoga and meditation & Awareness on School Dropouts,
- Free Distribution of Academic Needs for children, cultural programs.
- Awareness on Digital Economy.
- Software Skills Awareness



## Criterion – IV

### 4. Infrastructure and Learning Resources

#### 4.1 Details of increase in infrastructure facilities:

Facilities	Existing (Sq Mts)	Newly created (Sq Mts)	Source of Fund	Total (Sq Mts)
Campus area	51273.67	-	Management	51273.67
Class rooms	4115.09	-	-	4115.09
Laboratories	6389.82	-	-	6389.82
Seminar Halls	1418.46	-		1418.46
No. of important equipment purchased (≥ 1-0 lakh) during the current year.	-	3 Servers	Management	
Value of the equipment purchased during the year (Rs. in Lakhs)	-	Rs 9,50,149	Management	Rs 9,50,149
Others	-	Rs 5,03,95,392	Management	Rs 5,03,95,3 92

#### 4.2 Computerization of administration and library

Library is totally computerised and college day-to-day administration is also computerised and e-bills are generated for all money transactions.

#### 4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	18124	44,41,985	629	3,32,429	18753	47,74,414
Refe Books	1257		100		1357	
e-Books	9000		300		9300	
Journals	47		47		47	
e-Journals	1500		1800			
Digital Database	3000		4000			
CD& Video	420	6,39,983	120	61000	540	7,00,983
Others (specify)	-	-	-	-	-	-
		5081968		393429		5475397



#### 4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	477	8	50 Mbps	1	8	16	6	0
Added	63	1	20 Mbps	0	0	0	0	0
Total	540	9	70 Mbps	1	8	16	6	0

#### 4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

Nil
-----

#### 4.6 Amount spent on maintenance in lakhs :

i) ICT	Rs 2.1 Lakh
ii) Campus Infrastructure and facilities	Rs 5 Lakhs
iii) Equipments	2.3 Lakhs
iv) Others	8.5 Lakhs
<b>Total :</b>	17.9 Lakhs



## Criterion – V

### 5. Student Support and Progression

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- 1) The IQAC has been enhancing awareness through various meetings and circulars about student support services.
- 2) the students thoroughly aware of available services for them like canteen, library, reading rooms, hostels, games and sports, transportation, health care, computing, NSS etc. and they are actively participating and using all such services.
- 3) the students are trained by CRT programs for increasing their chances of employability.

#### 5.2 Efforts made by the institution for tracking the progression

Students progression during the semester is monitored through :

- 1) day-to-day attendance in theory and lab classes and intimation to the parents
- 2) performance of the students in each internal examinations.

Students progression after semester is monitored through :

- 1) performance of the students in the end semester examinations.
- 2) participation in co-curricular and extra-curricular activities.

#### 5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
1766	89	-	399

#### (b) No. of students outside the state

05

#### (c) No. of international students

Nil

	No	%
Men	1586	70

Women

No	%
668	30

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
1316	272	24	731	0	2343	1282	254	21	697	0	2254

Demand ratio 1.1

Dropout % : 1.8



#### 5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- 1) Providing on-line MCQ for the preparation of the GATE, CAT ,GRE etc.
- 2) Personality development courses and student practise courses are part of the curriculum.
- 3) Proposed to conduct special coaching in fundamentals by senior faculty.
- 4) Intensive coaching in English language and communication skills.

No. of students beneficiaries

450

#### 5.5 No. of students qualified in these examinations

NET	-	SET/SLET	-	GATE	1	CAT	-
IAS/IPS etc	-	State PSC		UPSC	-	Others	23

#### 5.6 Details of student counselling and career guidance

- 1) Mentoring and counselling process is followed continuously.
- 2) This process has successfully resulted in improved student performance.
- 3) Training and placement cell conducted CRT classes for better employment of students.
- 4) Students are motivated to participate in various competitions conducted by different universities and colleges.

No. of students benefitted

1450

#### 5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
16	240	177	0

#### 5.8 Details of gender sensitization programmes

WEGC organised a guest lecture on girl health issues and stress control for the first B Tech girl students.  
International Women's day was celebrated in the campus.



## 5.9 Students Activities

### 5.9.1 No. of students participated in Sports, Games and other events

State/ University level  National level  International level

No. of students participated in cultural events

State/ University level  National level  International level

### 5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports : State/ University level  National level  International level

Cultural: State/ University level  National level  International level

## 5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	252	Rs. 4000000
Financial support from government	1404	Rs 49163350
Financial support from other sources	-	-
Number of students who received International/ National recognitions	-	-

### 5.11 Student organised / initiatives

Fairs : State/ University level  National level  International level

Exhibition: State/ University level  National level  International level

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed: college transportation facility is arranged from Pedapadu, West Godavari District to the College.



## Criterion – VI

### **6. Governance, Leadership and Management**

#### 6.1 State the Vision and Mission of the institution

Vision : The Vision of Usha Rama College of Engineering & Technology is to become pioneer Institute in Technical Education and Research.

Mission : The mission is to offer the best technical education to students with commitment to enable the students to face the challenging environment and cut-throat competition in the global world.

#### 6.2 Does the Institution has a management Information System

Yes, the institution has MIS called EZSchool to manage general administration, examinations, student attendance and continuous evaluation process.

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

##### 6.3.1 Curriculum Development

We strictly follow the curriculum developed by the University JNTUK.

##### 6.3.2 Teaching and Learning:

- 1) Problem based learning
- 2) Preplacement training
- 3) Initiative to arrange more campus placement drives.
- 4) Motivation towards research for staff and students.
- 5) Assistance to students to get admission for higher education
- 6) Encouraging students to do mini-projects in the concerned subjects.
- 7) Expert lectures/NPTEL lectures to create wide exposure to students.
- 8) Video lessons, PPTs, e-lessons , lab experiments on theoretical concepts
- 9) University organised MOOCs classes.
- 10) Conducting remedial/review classes for the slow learners in the class.
- 11) Separate administration to plan and monitor teaching and learning process based on course outcomes

##### 6.3.3 Examination and Evaluation

We follow the guidelines set by the University JNTUK for examination and evaluation process.



#### 6.3.4 Research and Development

Separate R&D cell with Director is established to give support in terms of guidance in applying funded projects and for all types of research promotions.

- Exclusive administration set up with director (R&D).
- R&D committee to review and motivate research.
- Enhanced incentives for research publications.
- Conducting awareness programs by experts from funding agencies such as DST.

#### 6.3.5 Library, ICT and physical infrastructure / instrumentation

For sharing resources with other libraries to enhance teaching learning process the college joined as an institutional member of DELNET.

EzSchool software for Library Management.

50 Mbps Internet connection for staff and students.

NPTEL, MOOCs web courses and video courses are being used by staff and students to enhance their skill set

Wi-Fi connectivity is provided in the campus.

#### 6.3.6 Human Resource Management

Annual assessment of faculty is done through faculty self-appraisal Performa for professors, associate and assistant professor.

Induction training is conducted for new faculty members.

Support and guidance for carrying research activities, presenting papers in conferences and publish papers in reputed journals.

Faculty are motivated to send research proposals to various funding agencies.

Faculty members are encouraged to participate in FDP, seminars and workshops organised by various industries and institutions.

#### 6.3.7 Faculty and Staff recruitment

Whenever there are vacancies advertisements are made through newspapers and the recruitment is done by the Management through college staff selection committee as per the rule and regulation.

#### 6.3.8 Industry Interaction / Collaboration

- Industry Interaction is arranged for all courses through guest lectures, talks and seminars.
- MOUs are signed with local industries for mutual benefit with the exchanges of expertise
- Guest lectures are being conducted for faculty and students with



#### 6.3.9 Admission of Students

70% of the admissions are done by the Convener, EAMECT, Govt. of Andhra Pradesh. Remaining 30% of the seats are filled by the Management based on the guidelines given by Govt. of Andhra Pradesh.

#### 6.4 Welfare schemes for

Teaching	Free medical check-up and treatments at Hospitals near the College provided by Management Group personal accidental Insurance.
Non teaching	Free medical check-up and treatments at Hospitals near by the College Management College has a tie up with Siddhartha Medical College, peda-avutpalli for emergency medical needs Group personal accidental Insurance For Non-Teaching Staff 2Lakhs For daily wage works 1lakhs
Students	Offering scholarships by the College Management to poor & merit students to encourage them and to reduce their financial burden. Sponsoring gold medals to the toppers of all branches on the names of renowned (late) persons of the society to encourage competitive spirit among the students by Management. Students Groups personal accidental Insurance of 1Lakh College has a tie up with Siddhartha Medical College, for emergency medical needs Dispensary in college campus to look after the medical needs.



6.5 Total corpus fund generated

6.6 Whether annual financial audit has been done      Yes ☒      No ☐

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	--	Yes	Team led by IQAC and principal
Administrative	Yes	ISO	Yes	Team led by principal

6.8 Does the University/ Autonomous College declares results within 30 days?

For UG Programmes      Yes ☒      No ☐

For PG Programmes      Yes ☐      No ☒

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

- Examiners for end examinations are from other University College Faculty.
- Evaluation process involves coding & decoding of answer scripts.
- Physical Verification, Recounting and Revaluations of answer Script is provided to the students by the University

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

The affiliating university, JNTUK nominates the eminent personalities for the college Governing body, Academic Council and Broad of studies to design the curriculum and provide the suggestions to improve the quality of education in the college.

6.11 Activities and support from the Alumni Association

- Alumni meets are conducted periodically
- Alumni interacts with the present students to motivate and guide
- Alumni also help in placement activity
- Alma matter is connected to the college through separate alumni portal and they are updated with the college achievement. Alumni also share their success stories as well

6.12 Activities and support from the Parent – Teacher Association

- Parent teacher informal meetings are being conducted to identify the issues related to students.
- There is no formal parent teacher association, however, a feedback from parents is collected occasionally in the prescribed format, analysed and used for further development.



### 6.13 Development programmes for support staff

Supporting staff are sponsored to attend continuous education programs and to improve their qualification.

### 6.14 Initiatives taken by the institution to make the campus eco-friendly

- Sprinkler system is used for Greenery and Lawns
- Plantation is set in major places of the campus and maintained to make campus as eco-friendly
- Solar Power generations is being planned.

## Criterion – VII

### 7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

- Continuous monitoring of progress in syllabus completion, through online academic activity report.
- Monitoring of student performance in mid-term exams, attendance, arranging
- Student Interaction and Counseling etc.
- Taking regular student feedback on effectiveness in teaching.
- Equipped the class rooms with LCD Projector etc.
- Subscribing to wide range of technical magazines, journals and proceedings and by having membership in DELNET and subscribing for all journals prescribed by AICTE for effective knowledge sharing.
- Established recognized research center in Mechanical Engineering Department which is useful for both students and faculty for doing mini project, projects and research.
- Special classes for slow learner are conducted.
- Encouraged the students to undergo internship during summer vacation.
- Encouraged the students to participate in extracurricular activities such as sports, NSS & cultural etc. for all-round development.
- Motivated the faculty to apply for research grants from funding agencies.
- Proctor system to monitor the regularity and performance of student.

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year



IQAC planned the objectives for current year(2017-18) and its progress was monitored through action taken report monthly from all concerned persons. In its meeting these action taken reports were discussed and correction was done appropriately whenever it was required.

Activity Planned	Status of Activity / Action Taken
Academic Schedule	Implemented as per the schedule
Course delivery	Completed as per the lecture schedules
Workshop/Seminars/Guest Lecturers/Training programs	Conducted as per the proposals
Sending applications for Research funding	Proposal are submitted
Applying for NBA	In progress.

7.3 Give two Best Practices of the institution (*please see the format in the NAAC Self-study Manuals*)

- Enhancing student skill set
- Comprehensive Student Monitoring System

***\*Provide the details in annexure (annexure need to be numbered as i, ii,iii)***

7.4 Contribution to environmental awareness / protection

- Conducting environmental awareness workshop/ seminars by inviting the experts through Eco club of the college
- Offering Environmental Science as a compulsory subject
- Organising Swacha Bharath campaign etc.,
- Planting of trees in the campus
- Construction of rain water harvesting pits in the campus
- Neeru-Meeru. A Govt of Andhra Pradesh program to conserve rain water.

7.5 Whether environmental audit was conducted? Yes ☐ No ☒

7.6 Any other relevant information the institution wishes to add. (for example SWOC Analysis)

1. More emphasis on Outcome Based Education
2. Offer scholarships to attract talented students to gain competitive advantage
3. Improvement in academic performance by achieving Autonomy



## 8. Plans of Institution for next year

### 8. Plans of institution for next year

#### ❖ Research

- Encourage the faculty to apply Research Proposals for Research Grants from various funding agencies like DST/AICTE/UGC/DRDO/ISRO etc.,.
- Motivate faculty to attend Seminars and Workshops, Conferences and publish paper in reputed journal.
- Organising department wise Conferences/Seminars on Contemporary topics.

#### ❖ Teaching and Learning

- Effective monitoring of the attainment of Course outcomes, Programme outcomes and Programme educational objectives
- Adapting innovative delivery methods
- Collaboration with Industry and Institutions of repute
- Improving the faculty student ratio

#### ❖ Infrastructure

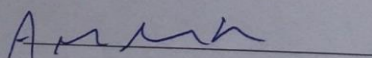
- Strengthening of Networking and Computing facilities
- Enhancing built up space as per the sanction intake
- Uplifting the sports ground and facilities for sports and games

#### ❖ The institution would like to organise the following programs:

- Conducting FDP programs on current topics
- Obtaining NBA Accreditation for UG programs of EEE, ECE, CSE, ME & IT
- Organising Campus Recruitment Training programs to Engineering student to enhance their employability skills
- Beautification of the college campus by planting, decorative and ornamental plants create good ambience

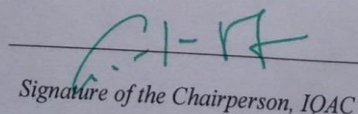
Name : Dr A Madana Mohana Rao

Name : Dr G V K S V Prasad



Signature of the Coordinator, IQAC

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Signature of the Chairperson, IQAC

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Revised Guidelines of IQAC and submission of AQAR

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## **Annexure I**

### **Abbreviations:**

CAS	-	Career Advanced Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission

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## Academic Calendar

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**Directorate of Academic & Planning**  
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**  
**KAKINADA-533003, Andhra Pradesh, INDIA**  
(Established by AP Government Act No. 30 of 2008)

Lr. No. JNTUK/DAP/Aca.Cal/ B.Tech/B.Pharm -II Year/2017-18

Date: 07-06-2017

**Dr. Ch. Satyanarayana**  
M.Tech, Ph.D.,  
Director, Academic & Planning

To  
The Principals of All Affiliated Colleges,  
JNTUK, Kakinada

**ACADEMIC CALENDAR FOR**  
**B.TECH/ B.PHARM II YEAR**  
**2016 BATCH**

<b>B.TECH/ B.PHARM II YEAR I Semester</b>			
Description	From	To	Weeks
Commencement of Class Work	12-06-2017		
I Unit of Instructions	12-06-2017	05-08-2017	8W
I Mid Examinations	07-08-2017	12-08-2017	1W
II Unit of Instruction	14-08-2017	07-10-2017	8W
II Mid Examinations	09-10-2017	14-10-2017	1W
Preparation & Practicals	16-10-2017	21-10-2017	1W
End Examinations	23-10-2017	04-11-2017	2W
Commencement of Class Work	20-11-2017		
<b>B.TECH/ B.PHARM II YEAR II Semester</b>			
Commencement of Class Work	20-11-2017		
I Unit of Instructions	20-11-2017	13-01-2018	8W
I Mid Examinations	15-01-2018	20-01-2018	1W
II Unit of Instruction	22-01-2018	17-03-2018	8W
II Mid Examinations	19-03-2018	24-03-2018	1W
Preparation & Practicals	26-03-2018	31-03-2018	1W
End Examinations	02-04-2018	14-04-2018	2W
Commence of Class work	11-06-2018		

*Chm*  
Director, Academic and Planning

Copy to the Secretary to the Hon'ble Vice Chancellor  
Copy to the Rector  
Copy to the Registrar  
Copy to the Director of Evaluation  
Copy to the Controller of Examination (UG)



## The Unique Practices at USHA RAMA COLLEGE OF ENGINEERING AND TECHNOLOGY

### Usha Rama Innovation & Incubation Center

**Special Team Officially known for "Usha Rama Innovation & Incubation Center"**

#### Vision of Special Team

Advanced Technology and Robotic systems makes more accessible than ever for students of modern society.

#### Working Style

Special Team is divided into multiple modes of working

##### **1. Technical Team**

Technical team students are proceeded with a full week of real time training followed by a mini project for an entire year.

##### **2. Statements of Proposals / Innovation Team**

This team is the high Prioritized team involved in Innovation projects funded by Institution.

##### **3. Internships**

This Team is exposed to the IT or Corporate world for Internship for an year

##### **4. Organizers**

This Team involves in documentation, Interior designing, Photography, Animation and video making, financial support, event organizing, magazine making and technical assistance.

### **Innovative Campus Funded projects of 2017-18**

Sno	Name of the Project	Youtube Link
1	Hydraulic Fuel	<a href="https://www.youtube.com/watch?v=Cdw6E6otid4&amp;feature=youtu.be">https://www.youtube.com/watch?v=Cdw6E6otid4&amp;feature=youtu.be</a>
2	Door Locking using IoT and Pin Pattern	<a href="https://www.youtube.com/watch?v=HknQYkaSUDk&amp;feature=youtu.be">https://www.youtube.com/watch?v=HknQYkaSUDk&amp;feature=youtu.be</a>
3	IoT Smart Mirror	<a href="https://www.youtube.com/watch?v=8XOQt_0i58Y&amp;feature=youtu.be">https://www.youtube.com/watch?v=8XOQt_0i58Y&amp;feature=youtu.be</a>
4	Smart Camera	<a href="https://www.youtube.com/watch?v=JVHuSywK2ps&amp;feature=youtu.be">https://www.youtube.com/watch?v=JVHuSywK2ps&amp;feature=youtu.be</a>
5	Campus Skates	<a href="https://www.youtube.com/watch?v=cYki6-fo-Mo&amp;feature=youtu.be">https://www.youtube.com/watch?v=cYki6-fo-Mo&amp;feature=youtu.be</a>
6	Selfie Attendance	<a href="https://www.youtube.com/watch?v=P5yjqmKEiz4&amp;feature=youtu.be">https://www.youtube.com/watch?v=P5yjqmKEiz4&amp;feature=youtu.be</a>



7	Serving Bot	<a href="https://www.youtube.com/watch?v=kM6REVMt1Vc&amp;feature=youtu.be">https://www.youtube.com/watch?v=kM6REVMt1Vc&amp;feature=youtu.be</a>
8	Water Serving Bot	<a href="https://www.youtube.com/watch?v=WiDC9lGNvu8&amp;feature=youtu.be">https://www.youtube.com/watch?v=WiDC9lGNvu8&amp;feature=youtu.be</a>
9	Obstacle Avoiding bot	<a href="https://www.youtube.com/watch?v=EhEB_yDi6Fg&amp;feature=youtu.be">https://www.youtube.com/watch?v=EhEB_yDi6Fg&amp;feature=youtu.be</a>
10	Harati Bot	<a href="https://www.youtube.com/watch?v=zj-jN7QRZ90&amp;feature=youtu.be">https://www.youtube.com/watch?v=zj-jN7QRZ90&amp;feature=youtu.be</a>
11	Coffee Machine	<a href="https://www.youtube.com/watch?v=7axxeiWD52U&amp;feature=youtu.be">https://www.youtube.com/watch?v=7axxeiWD52U&amp;feature=youtu.be</a>