



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution	USHA RAMA COLLEGE OF ENGINEERING AND TECHNOLOGY
Name of the head of the Institution	Dr G V K S V Prasad
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	08662527567
Mobile no.	9177712255
Registered Email	principal@usharama.in
Alternate Email	director@usharama.in
Address	Usharama College of Engineering & Technology NH-16, Telaprolu, Ungutur Mandal, Near Gannavaram, Krishna District, AP - 521109.
City/Town	Vijayawada
State/UT	Andhra Pradesh

Pincode	521109																		
2. Institutional Status																			
Autonomous Status (Provide date of Conformant of Autonomous Status)	24-Jun-2019																		
Type of Institution	Co-education																		
Location	Rural																		
Financial Status	Self financed																		
Name of the IQAC co-ordinator/Director	Dr A Madana Mohana Rao																		
Phone no/Alternate Phone no.	08662527557																		
Mobile no.	9177412255																		
Registered Email	viceprincipal@usharama.in																		
Alternate Email	arimadanamohanarao@gmail.com																		
3. Website Address																			
Web-link of the AQAR: (Previous Academic Year)	https://cdn.usharama.edu.in/documents/nac/aqar-2018-19.pdf																		
4. Whether Academic Calendar prepared during the year	Yes																		
if yes,whether it is uploaded in the institutional website: Weblink :	https://cdn.usharama.edu.in/documents/science-humanities/academic-calendar-2019-autonomous-1-sem.pdf																		
5. Accrediation Details																			
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A</td> <td>3.04</td> <td>2016</td> <td>11-Jul-2016</td> <td>10-Jul-2021</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	A	3.04	2016	11-Jul-2016	10-Jul-2021
Cycle	Grade	CGPA	Year of Accrediation	Validity															
				Period From	Period To														
1	A	3.04	2016	11-Jul-2016	10-Jul-2021														
6. Date of Establishment of IQAC			09-Nov-2015																
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
E-TABS WORKSHOP, APSSDC, VJY	16-Dec-2019 6	35
Web Engineering	02-Dec-2019 1	44
A Five Days Technical FDP on	25-May-2020 5	89
2 day work shop on solar energy	24-Feb-2020 2	120
Optimization Techniques in Power Systems and Power Electronics for Power Quality	07-Dec-2019 1	172
PCB Design and Applications	19-Dec-2019 2	180
Career Oriented Awareness Program in Cyber Security	29-Nov-2019 1	250
How to develop communicative English to get a good	29-Feb-2020 1	400
No Files Uploaded !!!		

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
Dr K Raja Sekhara Rao	One Week AICTEISTE Induction/Refresher Programme on "Advanced Emerging trends in CSE IT"	AICTE-ISTE	2020 7	300000
Dr KPNV Satyasree	MODROBS	AICTE	2020 720	727667
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9. Whether composition of IQAC as per latest NAAC guidelines:

No

Upload latest notification of formation of IQAC

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10. Number of IQAC meetings held during the year :

2

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	View File
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)

The IQAC ensures that the college maintains a consistent good academic record. The IQAC monitors teaching and student performance for proper improvement of academic standards. Feedback is regularly taken to facilitate the process. The IQAC offers suggestions for development of intellectual property, language skills, the teaching learning process and infrastructure and in many other fields related to the college. • The IQAC ensures a regular attendance of students and teachers round the year. The IQAC inspects and tries to improve the maintenance of college infrastructure. The IQAC ensures that students grasp over all areas of curriculum through periodical assessments. • The teachers are encouraged to participate in Research, Seminars, Workshop and FDP etc. for the upgradation of knowledge base. The IQAC regulates the processing of career advancement scheme of the teachers. All teachers are encouraged to take part actively in research work. They are encouraged to send proposals for major and minor research projects of UGC, DIST etc. • Departments are encouraged to regularly hold Tutorial and special classes to address the specific needs of students. The IQAC regulates the arrangements for holding seminars, workshops etc. by individual departments to upgrade the knowledge base of the students. Faculty Students are encouraged to undergo NPTEL Online courses and attend for the exams

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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	Achivements/Outcomes
As is the practice of the college, all teachers were encouraged to take part in Workshops and Faculty Development Programs	Teachers' of almost all departments attended seminars,webinars,workshops and FDPs.
All departments are encouraged to organize seminars, workshops and special lectures to improve the academic atmosphere.	Various departments organized technical activities like quiz, coding, project expo, debugging of code, improve the academic atmosphere. paper presentation, poster presentation hackathons, cultural activities and sports activities.
Attempts were made to provide a cleaner, healthier and more beautiful environment in the college premises	Lawns are laid provided with lighting. Deweeding and grass trimming has been done. Planting of new trees has made

	the campus ecofriendly. The campus declared plastic free.
Enhancing Faculty Qualification to boost up research work	Faculty are encouraged to register for Ph.D and also encouraged to publish papers in reputed National/International Journals
Enhancing more Soft skills and CPT classes to enhance placement opportunities	Accordingly TP classes are inducted into regular class time tables and a separate CRT (Campus Recruitment Training) was also provided to the Final year students
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14. Whether AQAR was placed before statutory body ?	Yes
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Name of Statutory Body	Meeting Date
Autonomous UGC Committee	23-May-2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
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Date of Visit	23-May-2019
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16. Whether institutional data submitted to AISHE:	Yes
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Year of Submission	2019
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Date of Submission	30-Sep-2019
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17. Does the Institution have Management Information System ?	Yes
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If yes, give a brief description and a list of modules currently operational (maximum 500 words)	Student Information System, Result Analysis System, Student Feedback, online grievance and redressal mechanism.
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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
BTech	ECE	ECE	01/08/2019
BTech	CSE	CSE	01/08/2019
BTech	CIVIL	CIVIL	01/08/2019

BTech	MECHANICAL	MECHANICAL	01/08/2019
BTech	EEE	EEE	01/08/2019
BTech	IT	IT	01/08/2019
Mtech	CSE	CSE	01/08/2019
Mtech	ECE	VLSI&ES	01/08/2019
Mtech	CIVIL	STRUCTURAL ENGINEERING	01/08/2019
Mtech	MECHANICAL	MACHINE DESIGN	01/08/2019
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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	CSE,IT,ECE	20/08/2019	CSE,IT,ECE	24/08/2019
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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
No Data Entered/Not Applicable !!!		
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	CIVIL	26/08/2019
BTech	MECHANICAL	26/08/2019
BTech	CSE	26/08/2019
BTech	ECE	26/08/2019
BTech	EEE	26/08/2019
BTech	IT	26/08/2019
Mtech	CSE	16/09/2019
Mtech	VLSI	16/09/2019
Mtech	MACHINE DESIGN	16/09/2019
Mtech	STRUCTURAL ENGINEERING	16/09/2019

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
IOT Application development and deployment using IBM Bluemix	20/08/2019	100
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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	ECE	4
BTech	CIVIL	21
BTech	CSE	14
Mtech	CSE	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	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained
<p>The institution collects the feedback regarding curriculum from alumni, students, employers, industries and RD organization etc. Faculty from the departments also give their opinion in course curriculum and syllabus formation to the university as and when asked. Institution offers programs on soft skills, technical skills, paper presentation, project, mathematical quiz and organize seminars on advanced topics in technology and engineering. • The training and placement officer of the institution regularly interacts with the HR managers of the companies and obtain their opinion about syllabus and the need to change it to match into their requirements. The TPO collects the updated information about the recent market trends and corporate expectation so that students can be prepared according to the need. • Keeping these demands in mind, Personality development classes are also arranged for the students of our institution to improve their personality, presentation and communication skills to make up the deficiencies in the students to make them employable. To make the student employable our institute arranges special classes for the final year students so as to improve their technical, aptitude skills.</p>

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
BTech	CSE, ECE, EEE, IT, MECH, CIVIL	600	401	401
Mtech	CSE, VLSI, SE, MD	96	27	27
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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
2019	1800	58	140	15	155

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
163	63	15	2	45	3
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2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

The personal data of students is maintained by the individual student counselors. Each counselor is put in charge of 20 students to monitor, shape and advice them to ensure their overall comprehensive growth and achievements. Academic performance of the students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. is detected by the teachers during their lectures in classroom. The institute analyzes the internal evaluation carried out by the faculty and the university results for different programs. Slow learners and students with low marks are given extra coaching after the normal working hours. The institute has a system of identifying academic weak students, counselling and mentoring them. The institute organizes special lectures for the slow learners after the regular class work is over. Teacher prepares specially designed notes for slow learners to understand the subject easily. Slow learners are grouped together in a batch of 15 to 20 students and mentoring is done by the teacher. Teacher in the special classes makes the student to answer one or two questions and few problems.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1858	163	1:11

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
49	49	0	49	4

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
2020	Dr. KURRA RAJASEKHARA RAO (state level Award)	Director	Patron Award" by India's Prestigious Professional Society, CSI for the year 2017-2019

2019	Dr. KURRA RAJASEKHARA RAO (National Award)	Director	ACHARYA RATNA". A Life Achievement Award for the year 2019.In Association with ITAAP,IT,IAS,I MPACT, Indian Servers.
2019	Dr. SUBRAMANI ROY CHOURI (National Award)	Professor	UTAMA ACHARYA PURASKAR" National Award for Impact creator in Engineering Education in commemoration on 150thBirth day anniversary celebration of Mahatma Gandhi in Association with IT AAP,IT,LIONS,IASaca demy, IMPACT,Indian- Servers.
2020	Dr.Ch.Santhi Rani	Professor	Distinguished Woman in Engineering" Vinus Intrnational Foundation (VIF), Chennai
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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
Mtech	1A	I	03/02/2020	01/09/2020
BTech	1A	I	02/11/2019	02/01/2020
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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	0	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://usharama.edu.in/syllabus>

2.6.2 – Pass percentage of students

Programme	Programme	Programme	Number of	Number of	Pass Percentage
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Code	Name	Specialization	students appeared in the final year examination	students passed in final year examination	
B.Tech	BTech	IT	59	35	59.3
B.Tech	BTech	CSE	123	77	59.3
B.Tech	BTech	ECE	173	99	57.2
M.Tech	Mtech	CSE	9	4	44.4
M.Tech	Mtech	MECH	1	0	0
M.Tech	Mtech	CIVIL	9	1	11.11
M.Tech	Mtech	ECE	6	2	33.33
B.Tech	BTech	CIVIL	20	3	15.0
B.Tech	BTech	EEE	15	5	33.33
B.Tech	BTech	MECH	20	6	30.0
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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://docs.google.com/forms/d/e/1FAIpQLSc5-ve0CwV67VLizbjThhaMEJuxoppFFBX2ipa2UXAmWPxygg/viewform>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

No

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3.1.2 – 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
No Data Entered/Not Applicable !!!				
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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
Minor Projects	6	ISTE	300000	300000
Major Projects	720	AICTE	727667	500000
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

0

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
UG Fellowship	CSE	28/01/2020
How to develop communicative English to get a good job.	S H	29/11/2019
Web Engineering	IT	02/12/2019
E-TABS	CIVIL	16/12/2019
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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
Safe Zoner and PAPS	T. SpurthiKiran	IEI-Satyabhama University	07/08/2020	Seed Your Startup
Irrigation of Water	Ullamgunta Yamini (16NG1A0496)	Institute of Engineers, Vijayawada	15/07/2019	IOT
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
No Data Entered/Not Applicable !!!					
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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
Civil Engineering	1
Science and Humanities	1

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	CSE	26	2.17
International	ECE	38	2.0
International	EEE	1	5.87
International	MECH	3	0.5
No file uploaded.			

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
SCIENCE AND HUMANITIES	4
MECHANICAL	2

ECE	1
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Semantic web service composition using multilevel workflow orchestration and method thereof	Published	201941048886	13/12/2019
Smart scheduling method for low energy consumptions in wireless sensor	Published	201941054665	24/01/2020
Secured data transmission and storage method for cloud based network	Published	2019410534462	03/01/2020
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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
HAp/TiO ₂ nanocomposites: Influence of TiO ₂ on microstructure and mechanical properties	V. Ajay Kumar	Journal of Composite Materials	2019	0.2	URCET	20
Water resources development and management in sub-basin using spatial technologies- A case study	K.V.SIVAKU MAR BABU	IJRTE	2019	5	URCET	25
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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	Institutional affiliation as mentioned in
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					citation	the publication
A Formal and Enriched Framework for Testing Distributed Embedded Systems	Dr K Rajas ekhara Rao	IJETER	2019	0	0	URCET
On mining Incremental Databases for Regular and Frequent Patterns	Dr K Rajas ekhara Rao	IJETER	2019	0	0	URCET
Constructing a System for Analysis of Machine Learning Techniques for Early Detection of Thyroid	Dr K Rajas ekhara Rao	IJEAT	2019	0	0	URCET
A Framework For Testing Distributed Embedded System in the International of Advanced Trends in computer Science And Engineering	Dr K Rajas ekhara Rao	IJATCSE	2019	0	0	URCET
Mining Negative Frequent regular Itemsets from data Streams in the International journal of Emerging Trends in E	Dr K Rajas ekhara Rao	IJETER	2019	0	0	URCET

ngineering Research						
Mining Distributed Databases for Negative Associations from Regular and Frequent Patterns	Dr K Rajas ekhara Rao	IJATCSE	2019	0	0	URCET
Extreme Learning Machine for Thyroid Nodule Classification with Graph Cluster Ant Colony Optimization Based Feature Selection	Dr K Rajas ekhara Rao	IJRTE	2019	0	0	URCET
Mining Negative Associations between Regular and Frequent Patterns hidden in Static Database	Dr K Rajas ekhara Rao	IJETER	2019	0	0	URCET
An Enhanced Method of Clustering for Big Data Mining using K-means	Dr.S M Roychoudri	JETIR	2019	0	0	URCET
Privacy Preserving Storage Scheme of Cloud by Intelligence in FOG Computing	Mr.GUDIPUDI BALAIAH	IJR	2019	0	0	URCET

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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	13	73	2	0
Presented papers	11	0	0	0
Resource persons	0	3	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	Cube strength tests	APPRED	590
CIVIL	Mix design and testing	MPP-Tadepalli gudem	6608
CIVIL	Mix design and testing	MPP-Pentapadu	6608
CSE	ONLINE EXAMINATIONS	TCS-ION	1140646

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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
NIL	NIL	NIL	0	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
Blood Donation	Indian Red Cross Society	2	400

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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
Creative and Innovative Project idea Contest	Third Prize	Institute of Engineers	1

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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	URCE	Swachh Bharath(Plantation)	2	50
NSS	POLICE Dept. gannavaram	Awareness of traffic rules	2	200
NSS	URCE	Blanket Distribution	2	30
NSS	Lions Blood bank	BLOOD GROUPING	2	20
NSS	Lions Blood bank, Govt. Blood bank (Eluru) Red Cross	Blood donation	2	20
NSS	URCE	Breast cancer awareness	1	200
NSS	M.J.Naidu super speciality hospital	MEDICAL CAMP	2	20
NSS	URCE	AWARENESS OF SAVE WATER	2	50
NSS	URCE	YOGA DAY	2	200
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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
No Data Entered/Not Applicable !!!			
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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
Continuing Education Programme	Summer Faculty Research Fellow Programme	Indian Institute of Technology, Delhi	14/05/2019	20/06/2019	L Surendra
Training Program	Industry Based Course	KAYA Consultancy	01/06/2019	20/03/2020	Students

		Pvt Ltd , Vijayawada , A.P			
Skill Development	Project work	KAYA consultancy URCET Vijayawada	02/09/2019	20/03/2020	Students
Skill Development	On-the job training	APSSDC CoE-VREC Vijayawada	01/10/2019	20/03/2020	Students
Project Work	Mechanical Testing	Vignan University, Tenali	01/12/2019	15/12/2019	G Sai
Project work	Performance Test of C.I Engine	V.R. Siddartha Engineering College, Vijayawada.	01/12/2019	15/12/2019	M.Sai Niketh
Project work	Friction Stir Processing	CITD, Vijayawada	08/10/2019	20/10/2019	G.Siva
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3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
No Data Entered/Not Applicable !!!			
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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
35900000	35933665

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
Classrooms with LCD facilities	Existing
Classrooms with Wi-Fi OR LAN	Existing
Seminar halls with ICT facilities	Existing
Seminar Halls	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 partially)	Version	Year of automation
ecap	Fully	v1.0.1	2018

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	17727	4119509	867	111414	18594	4230923
Journals	37	362941	17	35459	54	398400
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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	01/11/2019
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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	483	439	0	0	0	20	15	80	0
Added	37	0	0	0	0	37	0	40	0
Total	520	439	0	0	0	57	15	120	0

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

120 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
NIL	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
69000000	69598447	12000000	11729559

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)

Library: College has a central library with a very rich collection of text books, reference books and journals. In addition to this each department maintains a separate library of its own. Students are allowed to borrow books from both these libraries. The Library provides services to the students from 8:00 AM to 6:00 PM and are extended duties during examinations. class rooms: There are 47 class rooms and having projectors. Laboratory: There are 54 laboratories connected to the all departments. • Sports Facilities: Outdoor Games: Courts for cricket, Volleyball, Basketball, Tennis, Throw ball, Tennicoit, Kho-Kho. • In-door Games : Table Tennis, Caroms, Chess, Gymnasium. Automatic bowling Machine and Cricket Net practice. Computer facilities : 520 computers spread over various labs and all the computers are in LAN and internet facility with a Bandwidth of 120MBPS which include Wi-fi facility in all corners of the campus. Electricity : A combined 375 KVA capacity generators provides power back-up facility for the college and hostels. The institute has the facility of 200KW roof top Grid connected Solar Power Plant augmenting an exclusive 33/11 KV substation.

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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
No Data Entered/Not Applicable !!!			
View File			

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
Application of MATLAB in Electrical Engineering	22/02/2019	5	Michael Farady Research Center Vijayawada
Basics of PLC	25/11/2019	36	APSSDC CoE VRSE
Electrical Energy Efficiency	15/07/2019	26	APSSDC CoE VRSE
Instrumentation Process Control	15/06/2019	27	APSSDC CoE VRSE
No file uploaded.			

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	Campus Recruitment Training	300	150	150	150
No file uploaded.					

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
0	0	0

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
ABC, INS MAGRO, EFFTRONICS, MAHAVIR GROUP, YALAMANCHILI ENGINEERS PVT LTD, RAAM GROUP, TECH MAHINDRA	1313	114	TCS, WIPRO, LEGATO HEALTH TECHNOLOGIES MEDICO INC, TALENTIO, ADP, COGNIZANT,	880	28
No file uploaded.					

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
2019	3	B.TECH	CIVIL	UK	MS
2019	1	B.TECH	CSE	USA	MS
2019	6	B.TECH	CSE	UK	MS
2019	3	B.TECH	CSE	JNTUK	M.TECH
2019	2	B.TECH	ECE	USA	MS
2019	4	B.TECH	ECE	JNTUK	M.TECH
2019	1	B.TECH	EEE	JNTUK	M.TECH
No file uploaded.					

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
GRE	15
CAT	1
GATE	2
No file uploaded.	

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

Activity	Level	Number of Participants
----------	-------	------------------------

Sports Meet	Intra Mural	2000
Cultural Fest	National	500
Technical Fest	National	2500
No file uploaded.		

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
2019	Gold Medal	National	1	0	18NG5A0304	J.NISHAD
2019	Silver Medal	National	1	0	18NG5A0304	J.NISHAD
2019	Gold Medal	National	1	0	18NG5A0304	J.NISHAD
2020	Participation	National	1	0	17NG1A04B4	V. JYOTHIRMAI
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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)

Every Class has a Boy Class Representative (CR) and girl Class Representative (CR) and help the class in passing of important information or sharing class material (if any). Every department has a student technical association which will meet fortnightly and the activities are planned and conducted by students only. The activities are like conducting technical quiz, presentation by a student on a recent technological advancements or technical seminar on a recent technology. The college has various student clubs like cultural, sports, entrepreneur, programming, sports and photography. The clubs plan and conduct activities on monthly basis. The 'National Service Scheme'- NSS is an integral part of every under graduate institution. It aims to inculcate the larger goal of servicing the nation among the students. The NSS unit has been regularly conducting various activities like Blood Donation, Eye Camp, Tree Plantation.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of registered Alumni:

0

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

1

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)

1. Principal level The Governing Body delegates all the academic and operational decisions based on policy to the various monitoring committees headed by the Principal in order to fulfil the vision and mission of the institute. 2. Faculty level Faculty members are given representation in various committees/cells and allowed to conduct various programs to showcase their abilities. They are encouraged to develop leadership skills by being in charge of various academic, co curricular and extracurricular activities. They are given authority to conduct seminars/workshops/ conferences/conferences/FDP. 3. Student level Students are empowered to play an active role as coordinator and event organizers of co curricular and extracurricular activities . To inculcate managerial skills various student and department level clubs are formed and their activities are monitored by faculty members. As social service group coordinators .

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
Human Resource Management	The promotions are offered to the eligible and deserving staff. To improve professional capabilities the staff members are encouraged to attend seminars, webinars, personality development training, workshops and FDP.
Library, ICT and Physical Infrastructure / Instrumentation	basketball with flood lights, cricket practice net with automatic bowling machine, table tennis, ball badminton and enough play-field for cricket. The institute has automatic bowling machine for the cricket loving students
Research and Development	Faculty members are encouraged to involve in research and paper publications. Management provides special leaves to the faculty .
Examination and Evaluation	follows both autonomous and the university model.
Industry Interaction / Collaboration	Industrial Visit and Academic Projects.
Curriculum Development	Follows largely the Autonomous Academic Council and as a value addition certification courses from industry giants like IBM are introduced
Teaching and Learning	Modern teaching methods like ICT are being used and faculty members are encouraged in that direction. Each class room is equipped with Projector.

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

E-governance area	Details
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<p>Finance and Accounts</p>	<p>The college uses the e-CAP software for E-governance for transparent functioning of Finance and Accounts department of the college. This helps to increase the efficiency of staff towards the accuracy in financial transactions. The college conducts regular audit of annual books of accounts. The administrative office keeps the all financial records separately as per the events and transactions made for. The administrative office maintains the Books of Accounts properly which helps in auditing procedure. The same software is used to generate various reports like Consolidated Day Book General Day Book Daily Cash Collection report.</p>
<p>Student Admission and Support</p>	<p>Help Desk is provided in the campus to provide information related to the admissions. College has extended helping counter for the students which provides them several services as such Admission form Filling, Examination form filling as well as Scholarship Form filling at various places.</p>
<p>Examination</p>	<p>The College has the separate Examination department for both Autonomous and JNTUK University Examinations. Examination cell is with equipped ITC tools necessary for examination purpose. As per the requirement of Examination department all the necessary equipment are provided by the college such as Separate Desktop and Internet Facility for online procedure of Paper Downloading and further activities for exam purpose. The examination department has the separate Machine for printing the question papers downloaded from university portal. Student examination results are available in e-cap software. Student can check their overall performance through online using e-cap software.</p>
<p>Administration</p>	<p>The Administration of the College functions with E-governance system at College level. Even though the college is established in rural area still the college tries their best to keep in touch with latest tools of administration with available tools in hand. With the help of developed technological world college staff uses the same for administration purpose</p>

such as use of Smartphone with inbuilt social app like Gmail and WhatsApp. They share the notes to students with the help of gmail, WhatsApp and Microsoft Email. It helps to provide the brief notice of any event to be happened on college WhatsApp Group for awareness and of smooth functioning of the same. The college have Biometric attendance for teaching and nonteaching staff. The college campus is equipped with CCTV Cameras at very place of need.

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	NIL	NIL	NIL	0
2020	NIL	NIL	NIL	0

[View File](#)

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	Python Programming with Industry Perspective		02/12/2019	06/12/2019	41	0

No file uploaded.

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
No Data Entered/Not Applicable !!!				

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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time

49	49	7	7
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6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
PF, Group Insurance, Maternity Leave, Subsidized Travel	PF, Group Insurance, Maternity Leave, Subsidized Travel	Group Insurance, Meritorious Scholarship

6.4 – Financial Management and Resource Mobilization

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

The Institution has established a mechanism for conducting internal and external audits on the financial transactions every year to ensure financial compliance. Internal audit is conducted half yearly by the internal financial committee of the institution. The committee thoroughly verifies the income and expenditure details and the compliance report. External audit is conducted once in every year by an external agency. The mechanisms used to monitor effective and efficient use of financial resources are as below: ? Before the commencement of every financial year, principal submits a proposal on budget allocation, by considering the recommendations made by the heads of all the departments, to the management. ? College budget includes recurring expenses such as salary, electricity, internet charges, maintenance cost, stationery, other consumable charges etc., and non - recurring expenses like lab equipment purchases, furniture and other development expenses. ? The expenses will be monitored by the accounts department as per the budget allocated by the management. ? The depreciation costs of various things purchased in the preceding years are also worked out. Process of the internal audit: All vouchers are audited by an internal financial committee on half yearly basis. The expenses incurred under different heads are thoroughly checked by verifying the bills and vouchers. Process of the external audit: The accounts of the college are audited by chartered accountant regularly as per the government rules. The auditor ensures that all payments are duly authorized after the audit, the report is sent to the management for review. Any queries, in the process of audit would be attended immediately along with the supporting documents within the prescribed time limits. The institution did not come across with any major audit objection during the preceding years.

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
NIL	0	NIL
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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	ISO and University	Yes	IQAC
Administrative	Yes	ISO and	Yes	IQAC

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

1. Regularly parent -teacher meet will be conducted to discuss about the educational progress of the students 2. Providing valuable suggestion for development of the institution pointing out the weaknesses of the college related Departments and suggesting rectification.

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

1.Computer Training 2.Refresher and orientation training by the senior faculty
3.Soft skill training

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

1. Teachers are encouraged to engaged them selves in various research oriented activities. 2. Became an Autonomous Institution 3. whole administrative process has been Computerized. 4. initiative has been taken to become NBA Accredited.

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – 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
2019	ONLINE MCQ for semester-1 of all subjects of 2019 admitted batch	08/07/2019	09/07/2019	08/08/2019	30
2019	MODEL QUESTION PAPER semester-1 of all subjects for 2019 admitted batch	08/07/2019	09/07/2019	08/08/2019	30
2020	ONLINE MCQ for semester-2 of all subjects of 2019 admitted batch	27/01/2020	28/01/2020	26/02/2020	30
2020	MODEL QUESTION PAPER	27/01/2020	28/01/2020	26/02/2020	30

semester-2
of all
subjects for
2019
admitted
batch

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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
Womens Day	08/03/2020	08/03/2020	500	0

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

40

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	2
Provision for lift	Yes	20
Ramp/Rails	Yes	5
Rest Rooms	Yes	2
Scribes for examination	Yes	1
Any other similar facility	Yes	2

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
2019	1	1	04/09/2019	1	Blood Donation	Health	400
2019	1	1	24/07/2019	1	Harvesting of Rain Water	Environmental Awareness	150
2020	1	1	08/01/2020	1	No to Plastic	Bio Diversity	200
2020	1	1	11/01/2020	1	Eye Camp	Health	300

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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
students	12/06/2019	1. student should wear ID card when they are in college premises. 2.Mobile Phone is not allowed to the class.
Teaching	12/08/2019	1. Teachers must report in time to duty as per the working hours prescribed and should be available in the campus unless and otherwise they are assigned duties elsewhere. 2. Prior written permission should be obtained for reporting late in the morning or leaving early in the evening without detriment to their duties. 3. Teachers should sign the attendance register as well as register their attendance biometrically while reporting for duty.
non-teaching	12/08/2019	1. Non-Teaching staff working in the College office or departments should remain on Duty during College hours (9.30 a.m. to 4.30 p.m.). They should report for duty atleast 30 minutes in advance (9.00 a.m.) 2Non-Teaching staff should wear the Uniform provided by the Management. 3. Non-Teaching staff must always wear their identity badge during working hours. 4. Non-Teaching Staff assigned to Laboratories should keep the Labs clean..

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Induction Program	05/08/2019	24/08/2019	415
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Installation of ample number of Power Saving LED lights in Campus 2.Planting of plants trees (both perennial seasonal) inside the campus 3. Rain water tanks

are constructed for harvesting rain water to prevent soil erosion and meet the water requirements partially. 4. Electronic goods are put to optimum use the minor repairs are set right by the staff and the Laboratory assistants and the major repairs, by the professional technicians, and are reused. 5. 200kW Solar roof top Power Plant 6. Complete ban on single plastic usage

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

The Unique Practices at URCET are: Work Study - a unique feature of the institution. Usha Rama Innovation and Incubation Center -URIIC-(SPECIAL TEAM) Industrial Visits, Case studies, Mini Projects and Modeling. Reasoning, Aptitude and soft-skills training through TREAT Program- Special Campus Placement Training. Self-study based on ICT through NPTEL. Psychological Counseling (1:20 ratio) where every student is counseled regularly about his academics, progress and future plans. Quality enhancement in engineering education through active industry relations and offerings like IBM Career Education Program, APSSDC, ORL Industries. The college conducts a 2-Day National level Technical and Cultural symposium "yoUR fest" every year in the month of January, in which the students from other colleges across the nation will participate in technical and cultural events. Every Department conducts events like Paper Presentation, technical quiz, poster presentation and project expo.

- Engineer-ka-Mahasangram is a flag ship event of "yoUR fest" which carries a cash prize of 1 Lakh. The college conducts intra-mural sports meet every year to encourage overall development of students and staff. The winners are suitably rewarded on "Sports Day". The college every year organizes and celebrates Engineers Day and Teachers Day. Every day National Anthem is being played through campus PA System. The Campus has unique feature of 100 ft height National Flag.

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

<http://www.usharama.edu.in>

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

1. to imbibe technical and industry ready skills to the rural students, the college has MOU with IBM career Education and APSSDC. 2. to promote research and innovative thoughts the institute has self funded URIIC which is responsible for bringing out innovative projects.

Provide the weblink of the institution

<http://www.usharama.edu.in>

8.Future Plans of Actions for Next Academic Year

1. to go for NBA Accreditation. 2. to improve research facilities. 3. motivate faculty to get funded research projects. 4. to have more MoUs with industry. 5. to facelift infrastructure facilities of Hostels like having A/C to suit local environment. 6. to improve training and placement activities

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