



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution		SIR C. R. REDDY COLLEGE OF ENGINEERING
Name of the head of the Institution		Dr. G Sambasiva Rao
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		08812230840
Mobile no.		9121214530
Registered Email		principal.sircrrengg@gmail.com
Alternate Email		gutta245@gmail.com
Address		Sir C R Reddy College of Engineering, Vatluru, West Godavari District
City/Town		Eluru
State/UT		Andhra Pradesh
Pincode		534007

2. Institutional Status					
Affiliated / Constituent		Affiliated			
Type of Institution		Co-education			
Location		Rural			
Financial Status		Self financed			
Name of the IQAC co-ordinator/Director		S Raghunath Sagar			
Phone no/Alternate Phone no.		08812230565			
Mobile no.		9441447050			
Registered Email		raghunathsagars@gmail.com			
Alternate Email		sagar.sr@sircrrengg.ac.in			
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)		https://www.sircrrengg.ac.in/index.php?option=com_content&view=article&id=24&Itemid=329			
4. Whether Academic Calendar prepared during the year		Yes			
if yes,whether it is uploaded in the institutional website: Weblink :		https://www.sircrrengg.ac.in/index.php?option=com_content&view=article&id=25&Itemid=331			
5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B	2.17	2017	19-Jul-2017	18-Jul-2022
6. Date of Establishment of IQAC			14-Jul-2016		
7. Internal Quality Assurance System					
Quality initiatives by IQAC during the year for promoting quality culture					
Item /Title of the quality initiative by		Date & Duration		Number of participants/ beneficiaries	

IQAC		
Skill Development Programs	26-Aug-2019 365	829
Academic Audit	19-Jul-2019 2	210
B.M.S College of Engineering, Bangalore Dr. G Varaprasad, NBA Export	26-Feb-2020 1	85
Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology (VNRVJIET), Hyderabad Campus visit by eight members faculty team headed by S R Sagar, Department of EEE for familiarization of OBE and NBA Process	20-Sep-2019 2	8
Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology (VNRVJIET), Hyderabad Dr. N Krishna Kumari Dr. D Ravi Kumar	07-Sep-2019 1	85
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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Nil	Nil	Nil	2019 0	0

[View File](#)

9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	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)	
12. Significant contributions made by IQAC during the current year (maximum five bullets) • Academic Audit • Refresher Programme on Outcome Based Education • Establishment of VELJAN lab in Mechanical Engineering Department • Participation in NIRF • NBA preparation	
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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
Refresher Programme on Outcome Based Education.	Refresher Programme for one week from 07-July-2019 and on 26-Feb-2020 on Outcome Based Education was conducted for all faculty
Skill Development Programs	Skill development programs were conducted throughout the year for students in Siemens, Dassault, AWS and ARC labs.
Induction and orientation program for junior faculty.	Junior faculty members were given induction and orientation training by in house senior faculty for one week from 26-08-2019 to 31-08-2019
Participation in NIRF	NIRF data was submitted on 28th-November-2019
Academic Audit	An academic audit was carried out on 19th and 20th July, 2019 with internal audit done by teams formed for the purpose.
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14. Whether AQAR was placed before statutory body ?	No
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No
16. Whether institutional data submitted to AISHE:	Yes

Year of Submission	2020
Date of Submission	10-Jan-2020
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	Yes, the institute has a management information system, 'DBSERP', in place to provide mechanism for automated processing and management of institution

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

For effective implementation of curriculum, the involvement of immediate stakeholders i.e., students and faculty is to be monitored in an effective manner. Towards this the college has implemented the following: • Academic calendar, semester-wise, is prepared at college level in line with the calendar provided by the university and to be followed by all departments for the entire academic year. • Subject allocation is done by head of the department with due consideration to the choice, specialization, experience of the faculty and the requirements of the department, and communicated to them well in advance before commencement of semester. • The college functions from 9 am to 5 pm on all week days and from 9 am to 12.40 pm on Saturdays. Accordingly, class time-tables are prepared with a maximum of 8 periods per day. • Meetings are conducted by the HODs with staff members to design and implement various strategies for monitoring and effective implementation of the curriculum. • All the departments follow a calendar containing activities that are undertaken in an academic year. This helps the departments in effective execution of their plans. • All the staff members have to prepare course files with lesson plan, course objectives, course outcomes, mapping with programme outcomes, delivery methods and techniques, etc. • Lab experiments and lab manuals are made ready before starting of each semester in all laboratories by updating as per the requirements. • Faculty members are encouraged to teach using teaching tools and aids such as power point presentations, video lectures, quizzes, seminars etc. as per the demand of course outcomes. • Reviews are conducted at regular intervals and the status of syllabus coverage and other academic issues are discussed. x Slots are allotted to counseling, library, communication skills, personality development, expert lectures to balance the other activities with curriculum activities.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employability/entrepreneurship	Skill Development
COURSERA	Nil	20/04/2020	49	Employability	Yes
TCS ION	Nil	01/05/2020	49	Employabil	Yes

					ity	
COURSERA	Nil	20/04/2020	49	Employabil	ity	Yes
TCS ION	Nil	01/05/2020	49	Employabil	ity	Yes
Training on Manufacturing CNC	Nil	05/08/2019	14	Employabil	ity	Yes
Training on Auto 2 wheeler	Nil	05/08/2019	14	Employabil	ity	Yes
Training on Manufacturing welding	Nil	25/11/2019	21	Employabil	ity	Yes
Training on Auto 4 wheeler	Nil	05/08/2019	14	Employabil	ity	Yes
Training on Catia, Delmia, Simulia	Nil	17/07/2019	150	Employabil	ity	Yes
Revit architecture	Nil	19/08/2019	5	Focus on e	mployability	Yes

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BTech	Nil	01/07/2019
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	Computer Science and Engineering	26/08/2019
BTech	Electronics and Communication Engineering	26/08/2019
BTech	Electrical and Electronics Engineering	26/08/2019
BTech	Information Technology	26/08/2019
BTech	Mechanical Engineering	26/08/2019
BTech	Civil Engineering	26/08/2019

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	2838	Nil

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
Campus Recruitment Training	01/05/2019	98
Coding	17/06/2019	134
TCS Specific Training	12/07/2019	90
Python programming	25/11/2019	157
C programming	02/12/2019	194
Soft skills program	03/07/2019	121
Python programming	28/11/2019	132
C programming	28/11/2019	109
Soft skills program	03/07/2019	82
Cloud Computing	19/09/2019	95
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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	ISRO pay load project Measurement of magnetic field shift	4
BTech	One million second hack ton	5
BTech	Summer Fellowship programme at IIT at Madras	1
BTech	Internship Programme at DRDO Hyderabad	1
BTech	Integrating Drone-Brone Thermal Imaging with Artificial Intelligence to locate Bird nests on Agricultural land	1
BTech	Repair and maintenance of Automobiles, Mahaveer auto diagnostics pvt.ltd, Sanat nagar, Hyderabad-500018	1
BTech	Study on four wheeler vehicles, Eicher motors ltd., Manideep, Bhopal (M.P.)	1
BTech	Study on missile technology, VEM technologies pvt. Ltd, Hyderabad	2
BTech	Study on sinter plant, Vizag Steel Plant, Visakhapatnam	5

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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

The college obtains feedback from all the stakeholders i.e. students, alumni, employers, parents and experts from academia. Students The HOD and senior faculty periodically meet the student representatives to discuss academic issues. Any difficulties expressed by the students, if relevant are noted and communicated to the university either through the faculty who are members in the various BOS etc. or forwarded to the university when suggestions are invited during syllabus revision. Alumni Alumni meets are organized to obtain their views on curriculum and training and their suggestions are recommended for necessary modifications in the curriculum to the university and suggestions related to teaching-learning process are incorporated. Alumni visiting the college or its website give constructive suggestions to help the students achieve greater focus and improve themselves. Employers/ Industries The institute collects feedback from the recruiters on the performance of students of the institute both during the recruitment process and also after they are placed. This enables the institute understand expectations of the industry from the students and act accordingly. Evaluation of teachers performance is done in two ways in the college. Faculty The feedback from the students is collected twice in a semester-one shortly after the commencement of class work and the other after the completion of final internal exam. The first feedback helps to identify the strengths and weaknesses of the faculty so that they can overcome their short falls in the preceding classes. The second feedback is to know the level of attainment in overcoming their short falls. Appraisal is done by HOD for each faculty annually which is analysed critically to take necessary corrective actions like suggestions to improve in specific areas such as publishing papers, attending seminars/workshops, use of innovative teaching procedures, pursuing research, improving results in the subjects they are dealing etc.

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
MCA	MCA	32	5	5
MBA	MBA	64	60	60
Mtech	All	95	27	27
BTech	All	899	717	717

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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	3281	263	226	29	255

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
255	255	24	29	11	12

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

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

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

The institute strongly believes that student mentoring or counseling is the best method to help the students to overcome difficulties either in academics or in their behavior. Particularly at the adolescent age, the behavior of students is influenced by negative factors and counseling is the best way to put them in the right direction. This is carried out in the following ways.

Academic Counseling The institute provides regular counseling to the students to address issues relating to their academic shortfalls and obstacles. The institute executes mentor scheme where a group of students are placed under the guidance of mentors. The role of faculty counselor/mentor is to monitor the academic progress of the students under his/her care and to take corrective measures for any aberration in their progress in academic pursuits. This also helps to check absenteeism. Personal counselling

The student counselors play the role of personal counselor with whom a student can confide his/her personal problems. The faculty advisor strives to arrive at an optimal/amicable solution through counseling along with the HOD. The Principal also counsels the students and tries to mould them in right path. A Grievance Redressal Cell is also constituted to address the grievances of the students and to attend to their problems. Psycho-social counselling

Problems relating to social factors affecting students performance viz. peer pressure, parental support, cultural and religious background, socioeconomic status, and interpersonal relationships are addressed through their mentors. Psychological counseling is done to handle crises in relationships, deal with stress and other pressures, resolve fears, panic and anxieties, cope with continuing family problems, work through difficult decisions, and overcome depression and sadness. Experts in psychology are invited to address students in the fresher's orientation class at the beginning of the academic year so that the new students joining the college can cope with the stress of engineering studies. Stress management programmes are also conducted for the benefit of the students.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3544	255	1:14

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
3	3	Nil	3	1

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. S. Krishna Rao	Professor	Best Researcher award IJIEMR-ELSEVIER SSRN RESEARCH AWARDS-2020
2019	Dr. K. Rambabu	Professor	Indian servers - Uthama Acharya Puraskar - 02.10.2019
2019	Dr. K. Lalit Narayan	Professor	Indian servers - Uthama Acharya Puraskar - 02.10.2019
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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BTech	ALL	4th Year-2nd Semester (AU) PROJECT-VIVA	15/04/2020	26/05/2020
BTech	ALL	4th Year-1st Semester (AU)	08/11/2019	08/01/2020
BTech	ALL	3rd Year-2nd Semester (JNTUK)	05/11/2020	31/12/2020
BTech	ALL	3rd Year-1st Semester (JNTUK)	07/11/2019	10/01/2020
BTech	ALL	2nd Year-2nd Semester (JNTUK)	27/11/2020	Nil
BTech	ALL	2nd Year-1st Semester (JNTUK)	06/11/2020	02/01/2020
BTech	ALL	1st Year-2nd Semester (JNTUK)	26/12/2020	27/02/2020
BTech	ALL	1st Year-1st Semester (JNTUK)	29/01/2020	23/06/2020
Mtech	ALL	1st Year-1st Semester (JNTUK)	24/02/2020	19/08/2020
Mtech	ALL	1st Year-2nd Semester (JNTUK)	30/11/2020	11/02/2021
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The college adheres to the norms of JNTU University which has a tradition of following good and time-proven methodologies for the evaluation of students. Student centric learning through assignments, projects, seminars and practical sessions is done as given below: The performance of a student in each semester is evaluated subject wise with a maximum of 100 marks for theory subject and 75 marks for practical subject. The project work is evaluated for 200 marks. For theory subjects the distribution is 30 marks for Internal Evaluation and 70 marks for the End Examinations. The weightage of Internal marks for 30 consists of Descriptive - 15, Assignment - 05 (Theory, Design, Analysis, Simulation, Algorithms, Drawing, etc. as the case may be and for Physics, Virtual Labs to be considered as Assignments) Objective -10 (Conducted at College level with 20 Multiple choice question with a weightage of ½ Mark each). Here, within the limited scope as an affiliated college, for assignment marks, the institute has brought in a method of evaluation by splitting the assignments into two parts - first assignment of general nature and the second one is an exam specific assignment for a total weightage of 10 Marks.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

To ensure effective implementation of the evaluation reforms, the institution has set up separate examination sections at the department and college level which deal with the examination process. The college academic calendar is prepared by the examination section with the schedule of class work, assignments, internal assessment tests and end semester examinations for both theory and laboratory courses at the beginning of every academic year based on the university academic calendar.

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://sircrrengg.ac.in/index.php?option=com_content&view=article&id=31&Itemid=620

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
UG	BTech	CIVIL	63	63	100
UG	BTech	MECHANICAL	129	129	100
UG	BTech	IT	116	116	100
UG	BTech	EEE	168	168	100
UG	BTech	ECE	194	194	100
UG	BTech	CSE	182	182	100
PG	Mtech	CST	4	1	25
PG	Mtech	CS	1	1	100
PG	Mtech	VLSI	4	2	50
PG	Mtech	PS&A	10	3	33.33

[View File](#)

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://sircrrengg.ac.in/images/MANDATORYDISCLOSURE/Student_SatisfactionSurvey_2019-20.pdf

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

3.1.1 – 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
Major Projects	1	Sir C. R Reddy College of Engineering, Eluru, in Collaboration with satelize and ISRO	4	3
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3.2 – Innovation Ecosystem

3.2.1 – 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
Workshop on Modeling and simulation of Electrical Systems using Dymola	EEE	22/07/2019
Workshop on Designing and Simulation using PLC	EEE	19/08/2019
Workshop on “Advanced Robotics on PI IOT”	EEE	11/02/2020
Guest Lecture on operational aspects of power system and load dispatch is arranged	EEE	06/03/2020
A 2 - Day Workshop on Cloud Computing by Technical Trainers, APSSDC for II/IV B.Tech Students and Staff	IT	19/09/2019
A 3 - Day Workshop on Cyber Security” by Prameel Arjun, Founder CEO of SPYRY Technologies, Bangalore ,for IV/IV B.Tech Students and Staff	IT	23/09/2020
One Week FDP on Problem Solving Techniques using C Data Structures by B Vijay Kumar, BRAINO-VISION Solutions,	IT	11/11/2019

Hyderabad, for Staff		
Automation Anywhere University RPA training program by Ajay Kumar B,L4G Solutions, for II/IV B.Tech Students and Staff.	IT	07/01/2020
A 3 Day Workshop on "Machine Learning with Python" by Madhu k, KVENINAR SOLUTIONS for II/IV B.Tech Students and Staff	IT	02/03/2020
A 2 Day Workshop 12 Hours Hackathon on ANDROID Development by Prasanth, Technical trainer, BRAINO-VISION Solutions, Hyderabad, for III/IV B.Tech Students and Staff	IT	12/03/2020
A seminar on "Evolution Of Classical Crypto Systems" by Prof.V. Ch.Venkaiah, School of Computer and Information Sciences, HCU, Hyderabad, II/IV AND III/IV B.Tech Students and Staff	IT	20/02/2020
4Day Work shop on computer analysis using ABACUS	MECHANICAL	11/03/2020
Non destructive testing and its industrial applications	MECHANICAL	23/12/2019
Industry 4.0"Future of manufacturing using AIN robotics"	MECHANICAL	18/09/2019
Workshop on Intellectual Property Rights conducted by Novel IPR Academy Visakhapatnam.	CIVIL	12/07/2019

3.2.2 – 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
Innovative Methods and Advancements in Engineering and Sciences	M.Sai Ganesh, G.Mahesh,V.Venu Kaushik,T.B.S.S Rohit, P.Renuka Devi, M.Likhitha Veni G.Mahesh,V.Venu Kaushik,T.B.S.S Rohit, P.Renuka Devi,	Smart India Hackathon-2019, IIT Mumbai	08/07/2019	Hardware

	M.Likhitha Veni			
A low cost arduino based power system simulator for analysis and projection of ac transmission line	G. Venkatesh	NDRF IE(I) Jaipur	15/11/2019	Hardware
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3.2.3 – 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
Nil	Nil	Nil	Nil	Nil	01/07/2019
View File					

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
CSE	1
ECE	3
IT	1

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	CSE	17	0.6
International	ECE	16	0.7
International	EEE	15	3.1
International	IT	14	0
International	MECHANICAL	7	0
International	CIVIL	2	0.2
International	FED	5	0.3
National	EEE	5	0.1
View File			

3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
FED	1
MBA	3
MECHANICAL	7

IT	1
EEE	20
ECE	6
CSE	16
View File	

3.3.5 – 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
A Novel Approach For Identification Of Possible GSK-3? Inhibitors Using Computational Virtual Screening Analysis Of Drugs	K. N. Madhavi Latha	International Journal of Computational Biology and Drug Design	2019	0	Ph.D Scholar, ANU College of Engineering and Technology	Nil
Predicting Student Performance Using Classification And Regression Trees Algorithm	S. Mohan Babu Chowdary	International Journal of Innovative Technology and Exploring Engineering	2019	0	Department of Computer Science Engineering, Sir C.R. Reddy College of Engineering, Eluru, Andhra Pradesh, India	Nil
Fuzzy Clustering And Fuzzy C-Means Partition Cluster Analysis And Validation Studies On A Subset Of Cite Score Dataset.	Dr. A. Yesu Babu	IJECE	2019	0	Department of Computer Science Engineering, Sir C.R. Reddy College of Engineering, Eluru, Andhra Pradesh, India	Nil

Extraction Of Texture Features From Panchromatic Images	Dr. M. Krishna	International Journal of Recent Technology and Engineering	2019	0	Department of Computer Science Engineering, Sir C.R. Reddy College of Engineering, Eluru, Andhra Pradesh, India	Nil
Predicting Student Performance Using Classification And Regression Trees Algorithm	Dr. M. Krishna	International Journal of Innovative Technology and Exploring Engineering	2019	0	Department of Computer Science Engineering, Sir C.R. Reddy College of Engineering, Eluru, Andhra Pradesh, India	Nil
Anisotropic Image Restoration Based On Image Inpainting With Diffusion Enhancement	Dr. M. Krishna	International Journal of Innovative Technology and Exploring Engineering	2019	0	Department of Computer Science Engineering, Sir C.R. Reddy College of Engineering, Eluru, Andhra Pradesh, India	Nil
Intrusion Filtration System (IFS) - Implementation Of Security Model	Dr. M. Krishna	International Journal of Engineering and Advanced Technology	2019	0	Department of Computer Science Engineering, Sir C.R. Reddy College of Engineering, Eluru, Andhra Pradesh, India	Nil

Enormous Information Examination Using Big Data In A Distributed Environment With Profound Learning Of Next Generation Interruption Identification Framework Enhancement	J. S. V. Gopala Krishna	IJITEE	2019	0	Department of Computer Science Engineering, Sir C.R. Reddy College of Engineering, Eluru, Andhra Pradesh, India	Nil
Various Algorithms Techniques Driving Data Science For Big Data	J. S. V. Gopala Krishna	IJITEE	2019	0	Department of Computer Science Engineering, Sir C.R. Reddy College of Engineering, Eluru, Andhra Pradesh, India	Nil
A Novel Approach For Travel Route Recommendation Algorithm Using Systematic Spatial Keyword	Dr N. Deepak	IJRECE	2019	0	Department of Computer Science Engineering, Sir C.R. Reddy College of Engineering, Eluru, Andhra Pradesh, India	Nil
View File						

3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Fuzzy Clustering	Dr. A. Yesu Babu	IJECE	2019	3	Nil	Department

And Fuzzy C-Means Partition Cluster Analysis And Validation Studies On A Subset Of Cite Score Dataset.						of Computer Science Engineering, Sir C.R. Reddy College of Engineering, Eluru, Andhra Pradesh, India
Extraction Of Texture Features From Panchromatic Images	Dr. M. Krishna	International Journal of Recent Technology and Engineering	2019	17	Nil	Department of Computer Science Engineering, Sir C.R. Reddy College of Engineering, Eluru, Andhra Pradesh, India
Predicting Student Performance Using Classification And Regression Trees Algorithm	Dr. M. Krishna	International Journal of Innovative Technology and Exploring Engineering	2019	40	Nil	Department of Computer Science Engineering, Sir C.R. Reddy College of Engineering, Eluru, Andhra Pradesh, India
Anisotropic Image Restoration Based On Image In Painting With Diffusion Enhancement	Dr. M. Krishna	International Journal of Innovative Technology and Exploring Engineering	2019	40	Nil	Department of Computer Science Engineering, Sir C.R. Reddy College of Engineering, Eluru, Andhra Pradesh, India
Intrusion	Dr. M. Krishna	International	2019	14	Nil	Department

Filtration System (IFS) - Implementation Of Security Model		Journal of Engineering and Advanced Technology				of Computer Science Engineering, Sir C.R. Reddy College of Engineering, Eluru, Andhra Pradesh, India
A Novel Approach For Travel Route Recommendation Algorithm Using Systematic Spatial Keyword	Dr N. Deepak	IJRECE	2019	5	Nil	Department of Computer Science Engineering, Sir C.R. Reddy College of Engineering, Eluru, Andhra Pradesh, India
Analysis on soft fuzzy clustering methods to cluster drugs from virtual screening paradigm as probable GSK-3 beta inhibitors against Diabetes	NAGA MADHAVI LATHA KAKARLA	JARDCS (Jour of Adv Research in Dynamical Control Systems)	2019	8	Nil	Ph.D Scholar, ANU College of Engineering and Technology
Application of Fuzzy K-Means (FKM) Algorithms in Identifying Better Clusters of Few Drugs from Drug bank Database	NAGA MADHAVI LATHA KAKARLA	IJIITE (International Journal of Innovative Technology and Exploring Engineering)	2019	4	Nil	Ph.D Scholar, ANU College of Engineering and Technology

A novel approach for identification of possible GSK-3? inhibitors using computational virtual screening analysis of drugs	NAGA MADHAVI LATHA KAKARLA	IJCBD (Int. J. Computational Biology and Drug Design)	2019	12	Nil	Ph.D Scholar, ANU College of Engineering and Technology
Test System for Evaluation of Spacecraft Command Distribution on Hardware	Dr. T.Venkateswara Rao	IJAIEEM	2019	Nil	Nil	Sir CRR College of Engineering

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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	35	199	290	111
Presented papers	29	16	Nil	Nil
Resource persons	Nil	Nil	Nil	Nil

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3.4 – Extension Activities

3.4.1 – 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 Camp	College NSS Unit in collaboration with Red Cross Component Blood Bank, Eluru	4	95
Blood Donation Camp on "National Voter's Day"	Red Cross Society, Eluru	1	19
Blood Donation Camp	College NSS Unit in collaboration with Red Cross Component Blood Bank, Eluru	4	103

Tree Plantation Programme	College NSS Unit	1	50
Blood Donation Camp	College NSS Unit in collaboration with Helapuri Lions Club Red Cross Component Blood Bank, Eluru	4	140
Orthopedic Medical Camp	College NSS Unit in collaboration with M J Naidu Super Specialty Hospital, Vijayawada	2	20
Blood Donation Camp on "World Blood Donor's Day"	Red Cross Society, Eluru	1	20
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3.4.2 – 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
Nil	Nil	Nil	Nil
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3.4.3 – 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
Celebrations of Birth Anniversary of Mahatma Gandhi	College NSS Unit	Pada Yatra on "Mahatma Gandhi's Preaching's"	1	30
Drug De-Addiction Awareness	NSS Unit of Sri Vasavi Engineering College, Pedatadepalli	One Day Conference on "Drug De-Addiction"	1	11
Environmental Awareness	College NSS Unit in collaboration with Sir C R Reddy (A) College, St. Theresa (A) College, Red Cross Society and Govt. Forest Department	Tree Plantation Programme	1	15
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3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
(student exchange) Project Work	Integrating Drone-Brone Thermal Imaging with Artificial Intelligence to locate Bird nests on Agricultural land	Self	180

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3.5.2 – 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
Filed visit and Internship	Industry -Institution Interaction	Municipal Water Treatment Plant, Eluru.	14/02/2020	15/02/2020	Faculty and Students
Filed visit and Internship	Industry -Institution Interaction	Ultra Tech Cement Plant Prime Eco Care Industries, Jaggiyapet	03/02/2020	04/02/2020	Faculty and Students
Filed visit and Internship	Industry -Institution Interaction	Lakshmi Infra Structure Developers India, Pvt, Ltd	28/01/2020	30/01/2020	Faculty and Students
Project Work	Integrating Drone-Brone Thermal Imaging with Artificial Intelligence to locate Bird nests on Agricultural land	Lammi Biological station Paajarventie 320, FIN-16900 Lammi, Finland	Nil	Nil	Ch. Raviteja

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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate

houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
APSSDC	29/03/2019	Skill Development Training	600
Kveninar	02/03/2020	Industrial Visit/ Training/Guest Lectures/Seminars	360
AWS LAB	22/07/2019	Skill development Training	360
Ramdev Industries Ltd., Vijayawada	12/07/2019	Industrial Visits/Projects works etc	120
Prakash Spectro Castings Ltd., Vijayawada	15/07/2019	Industrial Visits/Projects works etc	120
Future NDT, Vijayawada	01/07/2019	Training at College	120
AP Leaf Spring Pvt. Ltd., Vijayawada	25/07/2019	Industrial Visits/Projects works etc	120

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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
150	139.06

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Newly Added
Laboratories	Newly Added
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Others	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Classrooms with Wi-Fi OR LAN	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
In house developed by our students	Partially	--	2005

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
	Text Books	46886	8807570	1014	339420	47900
Reference Books	4634	1678017	14	18169	4648	1696186
e-Books	10000	100300	150	57820	10150	158120
Journals	120	4640142	3	106354	123	4746496
e-Journals	100	4640571	20	224802	120	4865373
Digital Database	Nil	Nil	Nil	Nil	Nil	Nil
CD & Video	1000	750000	Nil	Nil	1000	750000
Library Automation	1	692942	Nil	Nil	1	692942
Weeding (hard & soft)	Nil	Nil	Nil	Nil	Nil	Nil

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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	02/07/2019

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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	1188	657	120	70	170	12	192	240	87
Added	0	0	120	0	0	0	0	0	0
Total	1188	657	240	70	170	12	192	240	87

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

240 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
0	https://sircrengg.ac.in/index.php?option=com_content&view=article&id=304&Itemid=647

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
145	135.5	170	160.49

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

Maintenance of Infrastructure Maintenance of Buildings College has a campus engineer to implement the decisions taken by maintenance committee in connection with maintenance of infrastructure, electrical and plumbing requirements, painting and repairs if any in the campus. In addition, campus engineer attends to the complaints and suggestions from students and faculty. Civil works connected to construction and maintenance of buildings is taken up by the Construction committee. Maintenance of Campus The day-to-day cleaning of the campus is monitored by a Supervisor who is answerable to the administrative officer. Support is provided to him by assigning contingent staff for housekeeping, sanitation and gardening works in the campus daily. The maintenance supervisor prepares a schedule for regular maintenance of the campus. Maintenance of Facilities Maintenance of Library The infrastructure and facilities available in the library are looked after by the library staff supervised by the librarian. Library stock verification is carried out annually. Maintenance of Play Area The physical director is in-charge for the play areas. The cleanliness is maintained with the man power provided by the maintenance supervisor. Maintenance of Equipment Maintenance of labs and lab equipment in the labs is monitored by the lab technicians who supervise their functioning calibration regularly and report failures to the lab in charges. The lab in-charges are responsible for the physical safety, preventive and breakdown maintenance of all lab equipment. They also suggest the purchase of new equipment, scrapping of obsolete and old equipment in the lab stock and for the replacement/ repair of the damaged. Office Infrastructure All the equipment and the other office infrastructure are maintained under the supervision and guidance of maintenance coordinators/conveners in electrical, mechanical and communication equipment. The computers located all over the campus are maintained by a hardware engineer and his team and regular up gradation is carried out for proper functioning. Annual maintenance contracts are made with outside agencies for maintenance of equipment where calibration and maintenance is required to be done by professionals and more qualified technicians.

https://sircrengg.ac.in/images/Others/IQAC/SUPPORT_FACILITIES_MAINTENANCE.pdf

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	0	0	0
Financial Support from Other Sources			
a) National	Scholarship	2427	86478600
b) International	0	Nil	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Remedial Classes	15/07/2019	41	CRRE - CSE Faculty
Soft skill development	17/12/2019	70	Kveninar Software Solutions Pvt Ltd.
Campus Recruitment Training (CRT)	20/05/2019	150	Talentio , Hyderabad.
Induction Program for NEXTRONICS	19/12/2019	100	C R R E - ECE FACULTY
Online Bridge course program	17/06/2019	180	C R R E- ECE FACULTY
Aptitude training classes	24/06/2019	120	ECE Faculty - Training Placement Dept.
Personal Counselling Mentoring	15/07/2019	180	C R R E- ECE FACULTY
Campus Recruitment Training (CRT)	20/05/2019	116	Talentio, Hyderabad.
Aptitude training classes	24/06/2019	82	EEE Faculty - Training Placement Dept.
Personal Counselling Mentoring	15/07/2019	150	C R R E- EEE FACULTY
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive	Number of benefited students by career	Number of students who have passed in the comp. exam	Number of students placed
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		examination	counseling activities		
2020	Campus Recruitment Training	101	86	77	77
2019	Recruitment Drive & Higher Studies	63	63	29	26
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
4	4	4

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
WESTLINE	242	63	TCS	514	37
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	1	B.Tech	CSE	Cardiff Metropolitan University	MS
2019	1	B.Tech	CSE	Texas A&M university	MS
2019	1	B.Tech	IT	Queen Mary University of London, UK	MSc (Artificial Intelligence)
2019	1	B.Tech	IT	University of Bristol, UK	MSc (Data science)
2019	1	B.Tech	IT	University of Hertfordshire	MSc (SW) Cyber Security
2019	1	B.Tech	IT	Solent University, UK	MS

2019	3	B.Tech	EEE	KLU, BITS DHANBAD	M.Tech
2019	9	B.Tech	ECE	IISC(Bangalore), VIT, CRR, SRKR, JNTUK	M.Tech
2019	1	B.Tech	CSE	York university	MS
2019	2	B.Tech	CSE	University of Buffalo	MS

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

Items	Number of students selected/ qualifying
GATE	7
GRE	10
TOFEL	5
Any Other	36

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

Activity	Level	Number of Participants
Basket Ball Men Women	Seniors Selections CM Cup District Level Selections	100
Sepaktakraw Men Women	Seniors District Level Selections	40
Kabaddi Men Women	Seniors District Level Selections	250
Cricket Kabaddi	College Level friendly Matches Between Loyola (VS) Sir C R R COE	70
Volley Ball	21 Days Games Sports Coaching Camp College Level	24
Basket Ball	College Level	20
Kabaddi	College Level	44
Kho-Kho	College Level	27
Foot Ball	College Level	13
Athletics	College Level	16

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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for	Number of awards for	Student ID number	Name of the student
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			Sports	Cultural		
2019	NIL	National	Nil	Nil	Nil	NIL
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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)

There is no student council at the college. However, student chapters of associations such as IEI, IETE, etc...in the departments organizes various programs such as Paper Presentation, Poster Presentation, Model Making/Circuit Designing/Project Designing, Debugging, Technical Quiz, Technical Talk, General Quiz, Aptitude Test, Group Discussion, Essay Writing, Sports, Games, Cultural events etc.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The institution has an active Alumni Association established in the year 2011. Activities Some of the college alumni have been absorbed as faculty and they take great pride in networking and organizing alumni meets through the Alumni Association. Alumni-meets are regularly organized and are well attended by our Alumni. Some of the activities are:

- The association organizes expert talks, seminars and also contributes towards placements.
- They conduct soft skill programmes for all the final year students.
- The Alumni works with the college to train students and get them acquainted with the requirements of the industry to be selected in the job market. Major contributions The alumni association paves way for the present students to have informal meets and interactions with the alumni which motivates and channels their focus in various areas of knowledge and skills through various soft skills programmes. Alumni have immensely contributed to the development of the college in the following ways:
- Provide guidance to the students for higher education and employment opportunities.
- Review changes and trends in the industry and giving inputs for design of curriculum.
- Provide feedback for evaluation of Programme Educational Objectives.
- Updating the current trends in the job market.
- Help the college in bringing more companies and industries for campus placements. Motivate the students to become entrepreneurs. Sharing and passing their experiences.

5.4.2 – No. of enrolled Alumni:

200

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

27-12-2019 Alumni Meet

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

The institution is managed by the management committee of Sir C R Reddy Educational Institutions that takes pride in managing some of the quality educational institutions that includes schools, colleges, management institutions, engineering and other professional institutions. The Institution

believes in practicing participative management, decentralisation and delegation of authority. The top management inspires academia to achieve excellence at national level in the field of higher education. 1. In promoting decentralisation, the management plays the role of a facilitator with adequate financial and human resource support for the academic and administrative works.

The principal contributes in the policy decisions of the management with respect to the institution. Principal being head of the institution communicates the decisions of the management in the head of the departments meeting, which is comprised of all the departmental heads who in turn communicate the same to faculty and take feedback. The management and principal encourage faculty and supporting staff to formulate system process and procedure for imparting quality education true to the spirit of the institute's vision mission and evolve strategies for academic growth of the institution.

2. The institution strongly believes in the active involvement of all the staff members of institution for effective management and promotes participative management. The principal with the heads of the departments discusses the needs, problems and suggestions to improve the educational quality and infrastructure to talk to the management for further action. The teaching and non teaching staff are represented in the institution committees to manage different institutional activities. Some of the available committees are as follows: • Anti Ragging Committee • Grievance Redressal Cell • Disciplinary Committee • Academic Cell • Library Advisory Committee • Women Protection Cell • Entrepreneurship Development Cell • Class Work Review Committee • Internal Quality Assurance Cell • Examination Cell • Training and Placement Cell • Student Welfare Committee • College Magazine Committee • Canteen Committee. This empowers the department heads and individual faculty with flexibility in taking decisions on academic administration at department and institutional level. The management addresses various issues of the institute at regular intervals and periodically conducts review meetings and collects suggestions from faculty members to develop the road map for the future academic activities

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
Industry Interaction / Collaboration	The institute strongly pursues linkage with industry and professional bodies through various modes of interaction. Both UG and PG students are motivated to undertake their end semester project in the relevant industries of their domain to prepare them to meet the requirement in the industries. Industrial tours are arranged for exposure to industrial environment. Industrial training is mandatory during summer before start of final year. To improve institute -industry relations and increase placements, there is a full-fledged training and placement cell working in the college. It is headed by a training and placement officer and a team of people to assist him. This department is in constant touch with IT companies

and core engineering companies. These companies visit the college regularly and conduct campus interviews. The percentage of eligible and interested graduating students employed during 2019-20 is 82.36. The average number of companies that visit per year is 17.

Human Resource Management

Institution recognizes that faculty members are the strength and real asset of the institution. The institution takes appropriate welfare measures to retain faculty, encourages faculty to upgrade their skills and also attract quality faculty during recruitment. Employees are given utmost importance and their needs are recognized well:

- Recognizing quality work in teaching and administrative areas and suitably rewarding with promotions ensures faculty retention.
- Deputing faculty on leave for higher education for their career advancement as well as institutional growth.
- The institution frequently arranges in house training programmes and also deposes faculty to other organizations for acquaintance with latest developments.
- Service rules are made transparent and faculty and staff are benefited from PF, Gratuity, ESI and other benefits like CL, EL, ML, adequate vacation, in-house dispensary etc. Canteen facility is available at subsidized rates.

Research and Development

Research and Development: The institution encourages culture of research among teachers and students. There are number of research papers published by the faculty in national and international journals and conferences and research projects have also been completed. Faculty empowerment / encouragement Qualified and committed faculty is the strength of the college. Recognizing this very important and vital aspect, the college has adopted the following measures:

- Sponsoring for higher education.
- Offering incentives for paper publications in journals/conferences.
- Sponsoring faculty to attend workshops and faculty development programmes.
- Organizing FDPs within college at an appropriate time in the academic year.
- Encouraging faculty members with awards for both teaching and research.
- Providing medical facility, special leaves, maternity leaves etc. Some of

the initiatives for encouraging R D are: • Availability of adequate journals, digital library facility, reference books, internet and lab facilities. • Sponsorships are provided for researchers to visit universities in India for attending conferences /workshops/ QIP. • Motivation and guidance to apply for funded research projects. • Rewards for quality publications in peer reviewed journals. Encouragement for higher studies.

Teaching and Learning

Based on the recommendations of academic audit, the following specific measures have been taken by the institute to improve teaching and learning process. As the institution is heading towards outcome based education, every effort is made to transform the teaching-learning environment by choosing the following methods appropriate to specific courses: • Tutorials and remedial classes in specified subjects. •Learner centric interaction is implemented to make the students to be proactive and dynamic. • Special lectures are arranged on specific topics by industry experts. • Extended library and laboratory working hours beyond the institution timings. •Faculty to be self motivated and responsible to take own initiatives for remedial classes beyond curriculum coverage etc. • Stress on improvement in communication skills in English language through conduct of additional English input sessions during II III years. • Aptitude classes for campus placements. • Better understanding of fundamentals with the help of videos and PPT slides. • Thrust on e-learning by the use of NPTEL material/ on line courses etc. • Imbibing practical orientation through thrust on quality lab classes, industrial visits. The effectiveness of teaching-learning process is reviewed on regular basis.

Curriculum Development

As the college is affiliated to JNTUK University, Kakinada, curriculum development is solely in the hands of the university. However the college uses several mechanisms to enrich the curriculum and prepare students to cope with the changing needs of the society as well as industry. These are summarized below. • Curriculum gaps are

identified for each course and every care is exercised by the course coordinator to fill them by making the faculty deliver the content to students. The college has given flexibility for the faculty to take extra classes for each course. • The college organizes aptitude classes and communication skills lab by incorporating them in the time-tables of II and III years. This enables the students to prepare for campus interviews and also to enhance their employability and interpersonal skills. • Departments organize various training programmes for students to enrich their knowledge beyond curriculum to improve their employability. • Students are encouraged to take up mini projects and main projects related to the real time problems. If necessary, students are sent to industries or research organizations to collect the data, carry out analysis and suggest probable solutions.

Examination and Evaluation

The college has a central examination section to conduct university examinations and to liaise with university in examination related matters. It is headed by a senior faculty member as the in-charge of the section. The main functions of the examination in-charge are to collect confidential and non-confidential material from the university, keep in safe locker, prepare seating plans, conduct of examinations, safe dispatch of answer scripts to university, book malpractice cases, prepare consolidated internal marks statements and dispatch to university and maintain the record of examination results. Evaluation of teachers There are two ways of evaluation of all teachers. Feedback is collected from students for all teachers at the middle of each semester on a 0-100 scale. There exists a self evaluation of teachers in a prescribed format which is later verified by the team of senior professors. The feedback of teachers whose performance is not satisfactory is discussed in person and advice is given to them by HOD and senior faculty to improve their teaching as per the requirement.

Library, ICT and Physical Infrastructure / Instrumentation

• The central library is the significant feature of the college and

is fully automated with all modern facilities and uses software developed by the students of this college. The main features of the library software are bar code based circulation system, web-based public online catalogue, Provision for serials control and stock verification etc. • It has a total built up area of 4,454 square meters and was constructed at a cost of Rs 4.8 crore. The building has a ground and first floor. The ground floor consists of periodical section, browsing center, digital library, conference hall, discussion rooms, reprographic facilities, project reports and book bank for SC/ST Students. The first floor accommodates issue section and reference section. It has a capacity to seat 336 people. • At present the college library has about 61,849 volumes with 17,089 titles and subscribes to numerous e-journals through DELNET, 121 volumes of hard copy journals 34 magazines. In the reference section, the library has over 4209 volumes and 3150 titles that support the activities of the research and development wing of the college. Digital library with 30 systems and a media server and a browsing center with 70 systems with internet facility are available in the library. ICT Modern methodologies and pedagogy of teaching learning forms the core of teaching learning process. To make the student attentive and engaged throughout the class is a challenge to every teacher. This is possible only through effective and interactive teaching so that a student easily understands the concepts and gains maximum information in the class room and some of the practices followed are given below. Well-equipped computer labs, LCD projectors and OHPs are available to the faculty for conducting seminars, workshops, computer aided training. LCD projectors are used wherever required in class rooms to facilitate better communication and ensure active student participation in teaching learning process. Students are assigned topics and are encouraged to make presentations to develop independent learning among students. Internet access to all faculty and students help them to access journals, e-learning

material from other universities and make use of the same for knowledge enhancement. Using NPTEL, MIT and other e-learning resources for self-paced learning the at supplements regular lectures. Students feedback is taken online and analysis of students feedback is generated using software. Attendance, internal assessment and university marks are software based.

Physical Infrastructure

/Instrumentation The available infrastructure is utilized optimally in the following ways: The classrooms are utilized for the conduct of classes during working hours as well as for tutorial classes and remedial classes.

The central library is open up to 8:00pm The laboratories are utilized for conducting practical classes. Each department is equipped with a separate HOD room and staff rooms with separate cabins for each faculty member. The seminar hall and auditorium are utilized for conducting guest lectures, conferences, technical symposiums etc.

Parking facility, RO filtered water facility with of freezers etc., are available in the campus. Separate hostels for both boys and girls are available. x Separate workshops, carpentry section, drawing halls are available. x Playgrounds are regularly used by students for playing football, volley ball, badminton, cricket, hockey etc.

Admission of Students

Of the students admitted into the first year B.Tech. Programme, 70 are admitted through centralized web counseling by Andhra Pradesh State Council for Higher Education (APSCHE) according to the norms and regulations prescribed by State Government through its Government Orders (GOs). Students from SC/ST/OBC/General are admitted as per the reservation quota allotted by the government. The remaining 30 of seats are filled under the management quota as per the guidelines and GOS given by Andhra Pradesh Government under the supervision of APSCHE.

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

E-governace area	Details
Planning and Development	All departments and sections of the college are equipped with computers and everyday tasks are carried out using

these. The entire campus is Wi-Fi connected and helps in networking the departments that are spread throughout the college. As the college uses computers extensively, licensed windows software has been procured. Computers are also upgraded as per need.

Administration

The administration of the college uses e-governance system apart from traditional governance systems. Computer and mobile technologies like email, Whats App and other modern technologies are employed on a day-today basis in communicating information to stakeholder. The college website displays relevant student information. The college has biometric attendance for teaching and non-teaching staff and the campus is equipped with CCTV Cameras at strategic places.

Finance and Accounts

The college uses Tally accounting 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.

Student Admission and Support

The admission section, scholarship section and other student sections also use computers and all admissions are communicated with the state governments through the use of internet. College has counter for the students which provides them several services as such Admission form Filling, Examination form filling as well as Scholarship form filling at one place. The College has provided the facility to the students for linking the contact number with aadhar card which was mandatory for the students as per the government rule.

Examination

The college has the separate examination cell with equipped ITC tools necessary for examination purpose. As per the requirement of Examination department all the necessary equipment is provided by the college such as computers with internet facility for online procedure of paper

downloading and further activities for exam purpose. The examination department has a separate machine for printing the question papers downloaded from university portal.

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	Miss Ch. Prasanna Lakshmi	One Week Faculty Development Program On Engineering Projects for Assistive Technology needs	FDP	1100
2019	Mr. M. Chandra Kanth	E Tabs	Andhra Lyola Institute of Engineering and Technology Vijayawada	1500
2019	Mr. A. M Vamsi Krishna	IEEE CASS workshop on advanced IoT with machine learning	IEEE	1316
2020	Mr. A. M. Vamsi krishna	Circuits ans Systems	IEEE	825
2020	Mrs. K. Lavanya	Communication society	IEEE	1088
2020	Dr.T Venkateswara Rao	IEEE transactions on Antennas and Propagation	IEEE	1463
2020	Dr. CH. Madhava Rao	Computational Intelligence	IEEE	1088
2020	Mrs. P. Sowmithri	Journal of Microelectromechanical Systems	IEEE	1770
2019	Mr. A.S. Manikanta	Role of piles in soil retention in Deep Excavations and Deep Foundation	Andhra University, Visakhapatnam	1500
2019	Mrs. K. Dharani	E Tabs	Andhra Lyola Institute of	1500

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6.3.2 – Number of professional development / administrative training programmes organized by the College 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	FDP	Advanced Python Pro gramming	26/11/2019	30/11/2019	6	Nil
2019	FDP	Problem Solving Techniques using C and Data S tructures.	11/11/2019	16/11/2019	6	Nil
2019	Advanced VLSI traing on Xilinx FPGA using Vivado tools	NIL	16/09/2019	21/09/2019	10	Nil
2019	FDP - Bi o-medical signal processing applicatio ns	NIL	01/11/2019	14/11/2019	40	Nil
2020	Online FDP - trends in communicat ions	NIL	26/05/2020	30/05/2020	35	Nil
2019	Modelling and Simulation of Electrical Systems in DYMOLA	NIL	22/07/2019	27/07/2019	26	Nil
2019	Multimedia Training programme	Multimedia Training programme	23/10/2019	11/11/2019	1	2
2019	Internal				2	2

	Quality assurance Cell	Multimedia	23/10/2019	11/11/2019		
2019	Refreshment programme on "Multimedia" arranged by IQAC, Sir CRRCOE	Refreshment programme on "Multimedia" arranged by IQAC, Sir CRRCOE.	11/11/2019	11/11/2019	1	2
2019	One week FDP on "Problem Solving Techniques using 'C' and data structures"	NIL	11/11/2019	16/11/2019	1	Nil
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
5-Day national level workshop on 3D printing organized by Ramachandra college of engineering	5	11/05/2020	16/05/2020	6
AICTE Sponsored 5 days Short Term Training Programme On Recent Trends In Power Quality Improvement Techniques In Grid Connected DG System	2	21/10/2019	25/10/2019	5
One Week Faculty Development Program On Engineering Projects for Assistive	2	25/11/2019	29/11/2019	5

Technology needs				
Orientation program on Outcome based education	32	25/05/2020	25/05/2020	1
Two week AICTE sponsored FDP on "Bio-medical signal processing and applications"	10	01/11/2020	14/11/2020	14
Five days FDP on "Trends in communication"	32	26/05/2020	30/05/2020	5
Three days FDP on "IOT with Artificial Intelligence"	32	27/05/2020	29/05/2020	3
A Two Week DST-ICPS Sponsored Faculty Development Program On Artificial Intelligence ,Machine Learning and Deep Learning	2	20/01/2020	01/02/2020	13
A Six Day Short Term Training Programme on "Advanced Trends in Renewable Sources of Energy"	2	24/06/2019	29/06/2019	6
5 day International FDP on online teaching tools for video lecturing and digital e-learning by SIR CRR degree College	10	04/05/2020	08/05/2020	5
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>Regular employees of the institute are entitled for employee provident fund scheme and related pension scheme. Gratuity scheme is provided in the institution as per rules. Group insurance benefit is offered to all the staff of the institution. Incentives, promotion and increments are given. Casual leave, earned leave, medical leave, special casual leave, maternity leave and other leaves are as per institutions rules. A dispensary with full time doctor Dr. S. Mohan Das and nurse with all facilities like beds, stretcher, wheel chair etc. to take care of health related problems of both students and faculty is available.</p>	<p>Regular employees of the institute are entitled for employee provident fund scheme and related pension scheme. ESI scheme is implemented for eligible staff. Gratuity scheme is provided in the institution as per rules. Group insurance benefit is offered to all the staff of the institution. Incentives, promotion and increments are given. Casual leave, earned leave, medical leave, special casual leave, maternity leave and other leaves are as per institutions rules. A dispensary with full time doctor Dr. S. Mohan Das and nurse with all facilities like beds, stretcher, wheel chair etc. to take care of health related problems of both students and faculty is available.</p>	<p>Health service-A dispensary with full time doctor Dr. S. Mohan Das and nurse with all facilities like beds, stretcher, wheel chair etc. to take care of health related problems of both students and faculty is available. Free comprehensive placement training. Subsidized canteen facility. Students managed hostels on cooperative without profit motive. College transportation at concessional rates is provided by the college. Free Wi-Fi facility to all the students in the campus as well as hostels. A separate scholarship section has been established to facilitate processing of applications and remittances of government scholarships. Stationary and reprography facility are available within the campus. Facility for indoor games and separate gymnasium for boys and girls are available. ATM facility is available.</p>

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 both internal and external auditing system since its inception. The institution has qualified practicing chartered accountants as internal auditors who are auditing the accounts of the institution on a daily basis. Internal auditors check each and every transition for conformity for release of funds/ expenditure. Internal auditor prepares all financial statements required for external auditing. There were no objections raised by external auditor to date as the internal auditing is being carried out by qualified and experienced auditors and the process is highly stringent and transparent.

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	0
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6.4.3 – Total corpus fund generated

7141128

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	Committee constituting internal and external members	Yes	Committee constituting internal and external members
Administrative	Yes	Committee constituting internal and external members	Yes	Committee constituting internal and external members

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

1. A student monitoring system is in place to minimize irregularity in attendance, reduce backlog subjects and avoid dropouts. 2. Counseling, stress management, guidance in academic difficulties and career plans, and overall development is carried out by counselors/mentors. 3. Parents also provide feedback and give suggestions in the process.
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6.5.3 – Development programmes for support staff (at least three)

1. Conducts in-house training programmes on communication skills and MS Office for administrative and non-teaching staff. 2. Technical staff is sponsored to attend various training programmes related to their area. 3. Provides hands on training for non-teaching staff to improve their practical skills. 4. Training on new equipment and software in various labs.

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

1. Academic Audit 2. Participation in NIRF 3. Skill Development Programmes 4. Refresher Programme on Outcome Based Education.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	No
d) NBA or any other quality audit	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	Academic	19/07/2019	19/07/2019	20/07/2019	209

Audit					
2019	Participation in NIRF	25/10/2019	25/10/2019	28/11/2019	209
2019	Induction and orientation program for junior faculty.	26/08/2019	26/08/2019	31/08/2019	209
2019	Skill Development Programme	25/07/2019	01/07/2019	30/06/2020	829
2019	Refresher Programme on Outcome Based Education.	07/07/2019	07/07/2019	26/02/2020	209
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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
Women Self Defence and Awareness Camp on Disha App	18/02/2020	18/02/2020	300	Nil
Legal awareness program on Women Empowerment Acts and Importance on the eve of International Womens Day	06/03/2020	06/03/2020	350	Nil

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
The college has 250 kWp installed capacity Solar Power to meet the requirements of the college. This renewable energy meets approximately 45 per cent of the college energy needs.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1
Provision for lift	Yes	1320

Ramp/Rails	Yes	1
Braille Software/facilities	No	Nil
Rest Rooms	Yes	8
Scribes for examination	Yes	1
Special skill development for differently abled students	No	Nil

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	14/06/2019	1	Blood Donation Camp	World Blood Donation day	22
2019	1	1	25/07/2019	1	Blood Donation Camp	Thalassaemia disease treatment, Sickle cell anemia disease treatment, Blood loss during delivery for Pregnancy Ladies, and needy people.	145
2019	1	1	12/06/2019	1	Blood Donation Camp	Thalassaemia disease treatment, Sickle cell anemia disease treatment, Blood loss during delivery for	110

						Pregnancy Ladies, and needy people.	
2020	1	1	25/01/2020	1	Blood Donation Camp	National Voter Day	20
2020	1	1	17/03/2020	1	Blood Donation Camp	Thalassemia disease treatment, Sickle cell anemia disease treatment, Blood loss during delivery for Pregnancy Ladies, and needy people.	100
2019	1	1	28/07/2019	1	Environmental Awareness (Tree Plantation Programme)	Population growth, Environmental quality, Water Pollution, Air Pollution, Noise pollution, and Deforestation	16
2019	1	1	29/07/2019	1	Environmental Awareness (Tree Plantation Programme)	Population growth, Environmental quality, Water Pollution, Air Pollution, Noise pollution, and Deforestation	51
2019	1	1	31/10/2019	1	National Unity Day	Awareness among	80

						students about Unity	
2019	1	1	20/07/2019	1	Orthopedic Medical Camp	Issues related to Arthritis, Joint pains, Nerve pains etc.	25
2019	1	1	15/08/2019	1	Pada Yatra	To create awareness in public about Mahatma Gandhi preachings	32
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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Handbook for students	01/07/2019	Handbook for students is published at the start of academic year and is updated as per need.
Code of conduct for staff	01/07/2019	Service rules, leave rules etc.. are published and disseminated as and when needed.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Datta Kriya Yoga	27/08/2019	28/08/2019	717
First Aid Training By Indian Red Cross Society	22/08/2019	22/08/2019	717
Workshop on How to develop communication skills	06/09/2019	06/09/2019	717
Essay Writing and Painting competition on the occasion of Rashtriya Ekta Diwas	01/11/2019	01/11/2019	18
Motivational Talk By ISKON	11/11/2019	11/11/2019	717

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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Energy Conservation Lab equipment are serviced periodically to reduce excessive consumption of power. Class room power consumption is monitored. 2. Use of renewable energy solar power of 250 kWp has been setup to meet energy requirements of the college. Solar heaters are in use in the hostels. 3. Water harvesting the college has three bore wells to cater to the general needs of the institution. Soak pits were also constructed at appropriate places to raise the water table. 4. Efforts for Carbon neutrality the college management has taken certain measures to prevent emission of carbon dioxide in the campus. 5. E-waste management some of the e-waste generated is used for the purpose of technical education by making use as hardware in laboratories for display and study. The remaining material is disposed of in an appropriate manner.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice -1

1. Title of the Practice: Inculcating the spirit of research among faculty for a progressive technological growth

2. Objectives of the Practice

- To improve quality in the teaching-learning process
- To enhance quality in UG and PG projects
- To publish papers in refereed International/National journals and conferences
- To undertake collaborative projects and consultancy for long term interaction with the academia and industry
- To motivate faculty to pursue and obtain PhD

3. The Context: Research is a never ending quest for knowledge, which may be used to promote progress for the society. Today's world is rapidly developing, giving way and scope for new research initiatives to have a better life. To keep up with the growing needs and demands has become most essential parameter. To meet such demands, continuous research and development of new products and projects has become the need of the hour. This motivated the college to strengthen RD activity that focuses on various independent domains and encourages multidisciplinary research.

4. The Practice Teaching and Research must go together. With this aim, research is promoted by the college in the following ways and means:

- Sponsoring faculty for seminars/conference/workshops/Orientation courses/refresher courses, STTPs, FDPs, etc., for improvement of teaching quality.
- Financial incentives for publications in International/National journals and conferences
- Modernization of laboratories with research facilities
- Exposure to international expertise by organizing invited lectures, work-shops, seminars and conferences, etc.
- Provision of research grant from the management for enthusiastic researchers.
- Encouraging faculty to pursue PhD from premiere institutes and universities by providing necessary support.
- Providing high end computing facilities, with internet, Wi-Fi, and other facilities.
- Supporting staff are also encouraged to upgrade their skills by being deputed to relevant authorized /recognized training centers in their respective trades/fields.

5. Evidence of Success

Owing to the hard work done by the members of faculty, the following achievements have taken place in the organization

- No. of teachers availed the facility and obtained their Ph.D.:04
- No. of teachers availed the facility and pursuing their research: 84
- No. of international publications by the faculty: 121

There is a considerable improvement in teaching learning process as the faculty is exposed to latest areas of their topic of research. Further they are able to help the faculty who are fresh to initiate research. Good number of teachers got admission into Ph.D. at various universities. Students' publications have increased and quality of student projects, both UG and PG, has been enhanced.

6. Problems Encountered and Resources Required

- Limited in-house research facilities for faculty pursuing PhD.
- Limited access to laboratories in premiere institutes.

Best Practice -2

1. Title of the Practice - Student Mentoring System

2. Goal To minimize irregularity in attendance, reduce backlog subjects and avoid dropouts through paying attention towards

each student, proper counseling, stress management, guidance in academic difficulties and career plans, and overall development. 3. The Context Many students are from disadvantaged sections of the society and this result in irregular attendance and less concentration on studies due to personal issues. This results in poor attendance and backlog subjects which lead to increase in the number of dropouts. It is evident from the analysis of student entry characteristics that over 60 of the students fall under fee reimbursement category with 30 students joining through management quota and only 10 of the students pay college fee from parents' income. This indicates that 60 of students cannot afford to study the course unless government supports them through fee reimbursement. In addition, most of the students are from rural background, lacking required communication skills. Their inhibitions, poverty and brought up make them fear studies and force them to lag behind in their academics which result in poor attendance and number of backlog subjects. The highly competitive and complicated job market requires not only mastering the course content but also good communication skills and interpersonal skills. It has become imperative that a mentoring system is in place for the students to overcome stress, personal, domestic and academic difficulties. 4. The Process The practice creates an efficient mentoring system. Each teacher is assigned 20 students for mentoring. It is the responsibility of the faculty to observe and mentor the students in all aspects. Mentors meet the students at least once in a week to discuss various problems encountered by the students related to understanding the subjects, attendance, marks, and stress related to personal, domestic, academic, etc. The mentor collects and records all the necessary information about his/her wards. He looks after all aspects and issues of the students in the campus and guides the students to overcome difficulties. The mentor also involves parents or local guardians whenever necessary. This minimizes irregularities and makes the parents aware of the students' progress in the campus regarding attendance, marks, etc. This leads to better discipline on campus, motivates students to actively participate in curricular and co-curricular activities and results in better performance of students. 5. Evidence of Success Evidence of success of the practice includes better results in the examinations, increased attendance, increased participation in co-curricular activities, better discipline on campus and a warm and respectful relationship between teachers and students. 2015-16 2016-17 2017-18 2018-19 2019-20 Dropouts 33 28 26 26 53 Detentions 41 40 34 23 44 7. Problems encountered and resources required This practice requires dedicated faculty members who are able to carry out mentoring patiently in a friendly and non-coercive environment for the benefit of the students. To this extent, the college trains and motivates faculty members so that they can cope with the needs of the students. Faculty members find satisfaction in guiding the students in the right direction and thereby gain respect from them.

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

https://sircrengg.ac.in/images//MANDATORYDISCLOSURE/Best_Practices_2019-20.pdf

7.3 – Institutional Distinctiveness

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

Distinctive Area Improving Employability of Students through Skill Development
The college has taken measures to enhance entrepreneurship among the students by encouraging them to join technical entrepreneurship programme, an online management certification course being offered by the reputed business school ISB Hyderabad under skill India initiative. Technical symposiums and competitions are regularly conducted so as to make students present their innovative ideas. Young Researchers Club, Robotics Club, Revelations Club etc.,

are student centric clubs through which they can interact with experts from various fields to know the latest innovations, thereby enriching research attitude and personality development in them. As an affiliated institution, the college cannot offer any certificate/ diploma / skill development courses on its own. However, the college is offering the following certificate courses in association with various governmental agencies: • Diploma in "Technology Entrepreneur Development" in association with Indian School of Business (ISB) Hyderabad and AP Government. • Certificate course in "Cyber Security" in association with NASSCOM- APSSDC. • Certificate course in "Data Analytics" in association with NASSCOMAPSSDC. • Certificate course in "Mobile App Development" in association with Andhra Pradesh Skill Development Center (APSSDC). Under the aegis of APSSDC SIEMENS and government organizations, the college is offering the following Skill developmental centres for the benefit of Students: • Basic Hydraulics Lab • Advanced Hydraulics Lab • Basic Pneumatics Lab • Advanced Pneumatics Lab • Applied Robotic Control Lab • Dassault 3D Experience Lab • CNC Machines Lab • Advanced Welding Lab • 4-Wheelers Training Lab • 2-Wheelers Training Lab • Think Tronics Lab • Amazon Web Services Lab • Electronics Office Lab • Electronics Home Lab • Computer Based Training Lab

Provide the weblink of the institution

https://sircrrengg.ac.in/images/Others/IOAC/Institutional_Distinctiveness.pdf

8.Future Plans of Actions for Next Academic Year

The institute has a comprehensive plan in place to meet the vision of the institute and its goals. These are highlighted below. The institution would like to organize the following programs • Obtain NBA Accreditation for UG programs of CE, CSE, ECE, EEE, ME IT. • Organizing more Campus Recruitment Training programs for engineering students to enhance their employability skills. • Focusing on FDP programs on latest trends in industry. • Establishment of Incubation Center. • Collaborating with foreign universities on student skilling internships and faculty training and research. • Establishment of Hydraulic and Pneumatic skill development center. • Strengthening student Hackathon activities. Teaching and Learning • To append laboratories with some latest equipment matching with the needs of the industry and society. • Effective monitoring of the attainment of Course Outcomes, Program Outcomes and Program Educational Objectives. • Adapting innovative delivery methods. • Collaboration with industry and institutions of repute. • Improving the faculty student ratio. • To recruit senior faculty to strengthen human resources in the institution. Research • To increase research activity further in all departments. • To apply for more number of projects externally funded. • 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 papers in reputed journals. Organizing department wise Conferences/ Seminars on Contemporary topics. Infrastructure • Strengthening of networking and computing facilities and increasing bandwidth for Wi-Fi. • Uplifting the sports ground and facilities for sports and games. • Beautification of the college campus by planting, decorative and ornamental plants to create good ambience.