



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution	CVR COLLEGE OF ENGINEERING
Name of the head of the Institution	Dr. Nayanathara KS
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	08414661601
Mobile no.	9502335871
Registered Email	principal@cvr.ac.in
Alternate Email	cvrprincipal2001@gmail.com
Address	Vastunagar, Mangalpalli (V), Ibrahimpatan (M) R.R.Dist
City/Town	Hyderabad
State/UT	Telangana
Pincode	501510

2. Institutional Status																			
Autonomous Status (Provide date of Conformant of Autonomous Status)			30-Jul-2014																
Type of Institution			Co-education																
Location			Rural																
Financial Status			Self financed																
Name of the IQAC co-ordinator/Director			Dr.B.Naga Malleswara Rao																
Phone no/Alternate Phone no.			08414661601																
Mobile no.			9440499755																
Registered Email			bnmrao@cvr.ac.in																
Alternate Email			bnmrao@gmail.com																
3. Website Address																			
Web-link of the AQAR: (Previous Academic Year)			https://drive.google.com/drive/folders/1hSDKw--pfmCpUYTz6ev32ZX1hBAmYuRL																
4. Whether Academic Calendar prepared during the year			Yes																
if yes,whether it is uploaded in the institutional website: Weblink :			http://cvr.ac.in/home4/																
5. Accreditation 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 Accreditation</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>3.12</td> <td>2016</td> <td>17-Mar-2016</td> <td>16-Mar-2021</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accreditation	Validity		Period From	Period To	1	A	3.12	2016	17-Mar-2016	16-Mar-2021
Cycle	Grade	CGPA	Year of Accreditation	Validity															
				Period From	Period To														
1	A	3.12	2016	17-Mar-2016	16-Mar-2021														
6. Date of Establishment of IQAC			16-Jul-2016																
7. Internal Quality Assurance System																			
<table border="1"> <thead> <tr> <th colspan="3">Quality initiatives by IQAC during the year for promoting quality culture</th> </tr> <tr> <th>Item /Title of the quality initiative by IQAC</th> <th>Date & Duration</th> <th>Number of participants/ beneficiaries</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>						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								
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Revision of curriculum from B.Tech and M.Tech based on Model Curriculum issued by AICTE with CBCS, Meeting of Board of studies for third and fourth year, M.Tech I and II Year under R.	05-Oct-2020 03	140
Improvement of qualification of faculty to do Ph.D- Incentive of six months paid leave	03-Aug-2020 180	15
Induction programme for B.tech I year students (new admissions) was held for three weeks as per AICTE/UGC guidelines	05-Jul-2019 18	1200
Innovation Start up- students were grouped in to fourteen batches each having a sanction of Two Lakhs and fifty thousand out of two crores eighty five lakhs sanctioned by DST towards first year grant, Rs. Sixty Lakhs received. All the 14 projects were	02-Sep-2020 200	30
Internships for the B.Tech third year students at BHEL, ECIL, DRDRo etc	05-May-2019 60	800
Tool pledge for Fit India Movement.	29-Aug-2019 01	600
Essay Competition and Painting Competition - On the occasion of	31-Oct-2019 01	60
GREEN PLEDGE	29-Feb-2020 1	700
International Mother Language Day	20-Feb-2020 1	18
Distribution of Dengue Preventive Medicine on the occasion of NSS DAY	24-Sep-2019 1	1800
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8. Provide the list of Special Status conferred by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
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Department of CSE	Research Center Sanctioned by JNTU, Hyderabad Ph.D Scholar has been admitted in 201920. Scholarship at par is paid college.	college funds	2019 900	25000
Department of ECE	Research Center Sanctioned by JNTU, Hyderabad Ph.D Scholar has been admitted in 201920. Scholarship at par is paid college.	college funds	2019 900	25000
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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	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)
Participation in NIRF: NIRF has awarded the college in the band of 101 to 150 successively in 2017,2018 ,132 rank in 2019 and 141 rank in 2020.
NBA accredited B.Tech CSE programme for three years from 2019-20 for 4th time. B.Tech EEE and ECE received extension of accreditation by NBA for three more years based on Compliance report from 2019-20. Application has been submitted for accreditation of B.Tech EIE and M.Tech Structural Engineering and M.Tech VLSI System Design. The results for these three programmes are awaited.

Green Audit, Energy Audit and Environmental Audit were conducted by reputed organization and the report is available in the college website.

New B.Tech programme of Computer Science and Information Technology was started in 2019-20 with 60 students. College has been maintaining continuous record of all seats filled in admissions.

For the first time Ph.D regular students have taken admission in CVR College of Engineering has allotted JNT University Hyderabad. The registered research guides for the Ph.D scholars are available in the college as full time Professors.

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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
Faculty development programmes conducting by college atleast three per year, at least two per each department and two for college . Total	Total programmes organized are eighty two.
Sponsoring of faculty to attend at other institutions. Norms of IQAC are every faculty member should attend one per semester	Norms have been fully followed. Number of programmes attended are nine hundred and ninety nine.
R&D publications in National / International Journals & Conferences	There are many conference and journal papers. Some are indexed. Total publication in the year under consideration are three hundred and thirteen only. As an average of one technical paper for faculty.
students sponsoring for Internships	Industry internships for one month duration for every students at the end of B.Tech third year calendar and is compulsory.
To apply for Research Grant to AICTE, UGC, DST, NRSC etc.	College has ongoing projects worth about Rs. seventy lakhs, received from AICTE,UGC, NRSC and IETE. every year college applies for about fiteen project under AQIS of AICTE for programmes like MODOROBs , RPS etc some are sanctioned every year. No of new projects sanctioned in the current year are seven for total amount of seventeen lakhs.
Industry linkages with institute for Placement activities	For the current year number of placements are Nine hundred and fifty one. Which is maximum over the previous years from about companies.Maximum salary of thirty lakhs. View website for details of placements.

Industrial visits .	Every department is organizing Industrial visits for B.Tech 3 Year students.
Innovation programmes and patents	IQAC has been advocating for publishing patents. Over last five year number of patents published by the faculty are twenty eight.
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14. Whether AQAR was placed before statutory body ?	Yes
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Name of Statutory Body	Meeting Date
College Academic Committee	24-Jul-2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
Date of Visit	06-Jun-2019
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2020
Date of Submission	05-Mar-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)	<p>If yes, give a brief description and a list of modules currently operational (maximum 500 words)</p> <p>1. College intranet: The following information is shared through intranet:</p> <p>a. Faculty Administrative:</p> <ul style="list-style-type: none"> • Administrative inquiries, student class lists, attendance and grades of the students. • Notices of meeting, calendars and schedules, listing of committee members, and minutes of recent meetings. • Department budget statements and progress reports. <p>b. Faculty Students information:</p> <ul style="list-style-type: none"> • General announcements schedules for class, labs, office hours, examinations course descriptions links to lecture notes, tutorial notes, slides, handouts assignments and solutions grades. • Lecture notes, student projects,

research reports, software tutorials, FAQs, helpdesk documents, School/College/University calendar. • Email for faculty student (for course and program advising), student contact (to encourage peer interaction) local newsgroups specific to courses, for example, to provide hints to assignments, share questions and ideas bulletin boards and chat rooms for discussions. • For courses that require computational experimentation, HTML (equipped with JavaScript) and Java interfaces as frontends to existing applications, Java applets and VRML worlds demonstrating real time interactive computations. • Faculty and students can exchange information and share data when working on collaborative projects. c. Staff Students: • Class schedules, announcements of events (seminars, conferences, talks/presentations) and important deadlines, career information and job advertisements. d. Faculty Staff Students: • General announcements such as academic calendar. • Phone directory and acceptable use policies (AUPs). • History, facilities, addresses, visitor information, and vacation schedules of every department • Access to local information such as institutional library, phone directory and email addresses. 2. College Website: • Parents, alumni, and other visitors could access salient information from anywhere, anytime, even beyond office hours, as long as there is an internet connection. • Placements, Events, Alumni, infrastructure and achievements are displayed • Departmental related information is displayed under each departmental link • information is available on the website – activities, recognitions, announcements, etc. • Online fees payment by students. • The morale of the teachers, students, and College administrators is raised through the immediate feedback/ comments which the visitors leave. • It serves as the storage of backup files about the college, the teachers, and the students. 3. Mobile SMS: • Parents can easily track their children's attendance, assessment, report cards, fee payments, and receive messages directly to their mobile phone through

SMS. • Notifications and alerts are sent to the students and faculty through SMS. 4. Biometric attendance: The attendance of the faculty and students is taken through BioMetric. It helps in keeping track of the attendance of the faculty and students. 5. Google forms: • Teachers use Google forms for a variety of productivity tasks. Teachers collaborate with their coworkers at the same time to build surveys in working with their teams or departments. Google Forms are used for lesson planning, professional development planning and assessment forms. • Google Forms are used to build quizzes and surveys, classroom tasks, student feedback, choice of open elective and collaborating on group projects.

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	R18	Civil, CSE,ECE,EEE,EIE,IT and Mechanical Engineering for B.Tech III and IV Year	05/10/2020
BTech	R18	Computer Science and Information Technology	05/10/2020
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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
No Data Entered/Not Applicable !!!				
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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
BTech	Computer Science and Information Technology	01/08/2019
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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	Computer Science and Information Technology	02/07/2019
Mtech	Artificial Intelligence	02/07/2019
Mtech	Data Science	02/07/2019

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
Electric Hybrid Vehicles	17/06/2019	43
Basics of Automobile Engineering	17/06/2019	31
Fundamentals of Object-Oriented Programming Using Java.	17/06/2019	55
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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
No Data Entered/Not Applicable !!!		
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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>Feedback is collected for all courses ? Feedback from the students: The feedback proforma is standardized as approved by College Academic Committee. Every dept has one faculty incharge for feedback. The feedback is collected at 4th week of commencement of semester and at 15th week of semester. The feedback is collected by the incharge and other than the class teacher, from all first to fourth year classes. Percentage of students participating is 75. The Feedback is analyzed manually. The metrics account for the basic importance of the subject, overall quality of the content, faculty coverage of syllabus, pace of syllabus coverage etc., Clarity of expression, teachers command over the subject, regularity of the student and overall opinion are qualifying items in feedback form. A Bench mark of 75 grading is adopted. Faculty scoring 65 to 75 are individually counseled by the respective Head of Department. Faculty</p>

scoring 55 to 65 are advised to have a follow up and close guidance with a senior faculty of the department to understand the points of weakness, nature of coverage of lecture, and psychology of students etc. ? Feedback from Faculty: Performance is measured based on self assessment report having items like feedback, exam results, R D activities, participation in FDPs, extracurricular activities etc. Annual assessment towards reward for additional increments is done by a Committee with Dean, Director, Principal and Advisor including HOD. 40 percent weightage is given for student feedback for awarding annual appreciation increments. ? Basis of reward / corrective measures, if any: Counseling by Head of Department/ close monitoring and interaction by the senior faculty member, change of subject under special cases, psychology of batch of students etc., are considered as corrective measures. Adequate time is given for faculty members to strive for perfection. Specific remarks of the Head in few cases based on consistently unsatisfactory performance are annually viewed for remedial measures like involving in labs only. ? Feedback from Alumni: Each department collects online/ email feedback from Alumni, at least twice in a year. Their ideas help for development facilities, introduction of industry oriented courses and adding new lab programmes. Alumni meet is also arranged twice in a year in the college campus by each department. ? Feedback from Parents: Parents meet is arranged twice in a year, department wise. Continuous telephone contact is maintained. This feedback helps monitoring on regularity and performance of the student. Any problems faced by them get solved by parent interaction. There is register of contact details of parents . ? Feedback from Employers: Each department and Placement cell maintain interaction with HR of Industries. Placement cell organizes about 30 expert lectures from Industry for the benefit of student to be ready for placements. About 80 Companies recruit the students every year. In 2018 19 maximum placements have taken place of the order of 750. About 80 percent of eligible students obtain jobs due to continuous interaction with the employers, through placement cell

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
No Data Entered/Not Applicable !!!				
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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	4781	198	332	25	18

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-	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
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	Resources)				
375	260	28	10	10	17950
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2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Mentoring system to help at individual levels (Instruction: Here the institution may report the details of the mentoring system that has been developed for the students for various purposes and also state the efficacy of such system). Mentoring System Yes Type of Mentoring Total Development Number of faculty mentors 45/department Number of students per mentor 20 Frequency of meeting need based and on Saturdays With intent of shaping up of the students` career, mentoring of various types is provided. Placement Cell provides guidance and constant support for career advancement and professional development through regular training sessions, contact programs and interaction with alumni. The lab sessions will have at least 3 faculty members and 1 programmer. Each faculty member is assigned 20 students to monitor and evaluate the student performance. Every student is evaluated weekly and progress is profiled. This practice ensures one to one interaction and meets the core objectives of the lab. The faculty makes use of tutorial hour to address the specific needs and problems of students related to understanding the core concepts, relevance and their application. It also involves discussion on topics beyond the syllabus. Mentoring classes are held frequently for all years of B.tech students. Some students may come with rural background, different media of instruction, social status which have a bearing on progress of the students. Such students are identified and taken care as part of the mentoring process. Each section/division has 60 students. A list of mentors with contact numbers is prepared in the beginning of the semester and distributed to the students. Every staff member called "mentor", maintains a register that contains information of each students' personal data. The details of every counseling with the student are recorded in that page to review the improvement by next mentoring period. Mentoring session is shown as one period per week written in each class time table. Concerned faculty members will attend to that period. Research Hour During one of the regular interactions with faculty members, it was collectively resolved that each faculty member should work for 2 hours after College hours per week. The real spirit of this exercise is welcomed by every faculty member. During these two extra hours faculty members interact with students to clarify doubts. Mentor the students on research front by executing technical projects that are presented in different technical competitions. Special bus conveyance is arranged to faculty members and students for this purpose at 6:30 pm every day. Interaction with Parents: Regular Interaction with parents will be done by Mentors where ever there are serious situations like, absenting continously, low performance in the examinations etc. Interaction with parents takesplace by telephone call on every day when a student absents from lab class. In speical cases parents are informed through a college messenger sending a letter for personal attention. In some other cases parents are invited to come to college also when the things are adverse

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
4781	380	1:12.5

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
260	380	0	40	98

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
No Data Entered/Not Applicable !!!			
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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
No Data Entered/Not Applicable !!!				
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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://drive.google.com/drive/folders/1XF_lc66BNZNRT7sNROAfdnZYCFugvTN

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
55	Mtech	Embedded Systems (ECE)	12	11	92
49	Mtech	Electrical Power Engineering (EEE)	13	13	100
20	Mtech	Structural Engineering (Civil)	23	23	100
12	BTech	Information Technology	112	79	71
100	BTech	Electronics & Instrumentation Engineering	56	51	91
05	BTech	Computer Science And Engineering	290	204	70
04	BTech	Electronics And Communication Engineering	231	198	86
03	BTech	Mechanical Engineering	226	196	87

02	BTech	Electrical And Electronics Engineering	124	117	94
01	BTech	Civil Engineering	110	94	85
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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://drive.google.com/drive/folders/1XF_lc66BNZNRT7sNROAfdnZYCFugvTN

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

Yes
Name of the teacher getting seed money
<p>Mr. K. N. V. Chandra Shekar, Mr. B. Ramanjaneyulu, S.Suguna Mallika, G.Balakrishna, N.Satyanarayana, M.Sathya Devi, Ch.Sarada, N.Satyanarayana, M.Sunitha, D.Shanthi, A.Swathi, Mr.B.Shanker, S.Ravi Kanth, J.Jyostna, T.Chalam, Mr.L.Manjunath, Mr.D.Bha</p>
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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	365	JNTUH	250000	250000
Major Projects	365	AICTE	2423529	0
Minor Projects	365	JNTUH	255000	255000
Minor Projects	365	JNTUH	250000	250000
Major Projects	365	AICTE	1633000	0
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

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
Three Day Workshop on Research Methodology	ECE	30/10/2019
Two Day Workshop on Arduino Based Robots	ECE	02/08/2019
Two Day Workshop on Raspberry Pi Using Python	ECE	07/09/2019
Front End Engineering (FDP)	IT	27/08/2019
Demystifying Blockchain (Seminar)	IT	13/12/2019
Research Methodology	CIVIL MECH	10/08/2019
Workshop on "Entrepreneurship in Upcoming Business Ideas"	EDC CELL	10/02/2020
Workshop on "Entrepreneurship in Agritech"	EDC CELL	17/02/2020
Entrepreneurship Awareness Camp	EDC CELL	26/09/2019
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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
Enigma99	4th year ECE students, Rohan Vamshi, Robin Wilson, SanthoshKumar, Rohit Patil, Sahithi Ammana, TRasgana)	MHRD	08/07/2019	Smart India Hackathon 2019 Hardware Edition
Silicon Farming	P Renu, Kandukuri Ratna Prakarsha, Tenneti Srimanth, Rajoli Valli Nikhitta of ECE	JNTUH-Innovation Hub	28/12/2020	RURATHON
Farmway worked on updates and the ways to improve farming technique	Garine Akhil Varagani Hemanth Kumar from IT	JNTUH-Innovation Hub	28/12/2019	RURATHON
Road Safety Device for Preventing	Mr. Srimanth Tenneti II Year ECE Student	BITS Hyderabad	17/12/2020	National Technical Fest

11CVRCE 19CVRCE 19CVRCE 19CVRCE 19CVRCE 19Accidents on Highways under Difficult Driving Conditions	(18B-4N6), Ms. K. Ratna Prakarsha (18B-4M2), Mr. S. SriHari (18B-4N3) and Ms. K. Sarika (18B-4M9)			
he Annual Techno Cultural Fest ofMahindra Ecole Centrale	Ms. Pavitra, Mr. Siri Chandan Reddy and Mr. U. Praveen	AETHER	09/11/2019	Bridge IT
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
NewGen Incubation Center	CVR Incubation Center	NewGen IEDC (DST)	Automatic Drying Protection of Clothes from rain	Student Centric Startup	05/08/2019
NewGen Incubation Center	CVR Incubation Center	NewGen IEDC (DST)	Smart Aqua Culture System	Student Centric Startup	05/08/2019
NewGen Incubation Center	CVR Incubation Center	NewGen IEDC (DST)	Efficycle	Student Centric Startup	05/08/2019
NewGen Incubation Center	CVR Incubation Center	NewGen IEDC (DST)	Corporatz App	Student Centric Startup	05/08/2019
NewGen Incubation Center	CVR Incubation Center	NewGen IEDC (DST)	Solar Panel Cleaner	Student Centric Startup	05/08/2019
NewGen Incubation Center	CVR Incubation Center	NewGen IEDC (DST)	Corn Removal Machine	Student Centric Startup	05/08/2019
NewGen Incubation Center	CVR Incubation Center	NewGen IEDC (DST)	Smart Trolley	Student Centric Startup	05/08/2019
NewGen Incubation Center	CVR Incubation Center	NewGen IEDC (DST)	Medium Range Payload Copter	Student Centric Startup	05/08/2019
NewGen Incubation Center	CVR Incubation Center	NewGen IEDC (DST)	All Terrain Vehicle	Student Centric Startup	05/08/2019
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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
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Computer Science and Engineering	2
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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)
No Data Entered/Not Applicable !!!			
View File			

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
MECH	8
IT	10
Humanities and science	6
EIE	4
EEE	26
ECE	13
CSIT	1
CSE	6
CIVIL	19
No file uploaded.	

3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
No Data Entered/Not Applicable !!!			
View File			

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
No Data Entered/Not Applicable !!!						
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3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
No Data Entered/Not Applicable !!!						
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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	762	112	110	82

Presented papers	244	69	0	0
Resource persons	10	4	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)
MECHANICAL ENGINEERING	Machining of Turnstile Junction Low pass filter E-Plane Bent, Straight wave guide, C-Band OMT.	COMSAT	500000
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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
EEE	FDP On SPARK-II Design and implementation of power electronic converter circuits	Faculty	42000	14
EEE	2. 3rdNational Conference on EFIDC	Faculty and students	30000	31
ECE	FDP	Faculty	80000	100
CSE	Front End Engineering (FDP)	Faculty	18000	24
Civil Engg	Two-Day National Workshop on "Geotechnical Practices Challenges" (GPAC-2020)	Faculty and students	44000	40
Civil Engg	Three Day National Workshop on "Material sustainable Infrastructure Development" (MSID - 2019)	Faculty and students	53750	30
Civil Engg	Three Day	Faculty and	29250	32

	National Workshop on "Solid Waste Management Practices" (SWMP-2019)	students		
IT	Python for Data Sciences (Workshop)	Faculty and students	16800	42
IT	Demystifying Blockchain (Seminar)	Faculty	12300	41
EIE	LABVIEW PLC	Faculty	15600	25
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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
Essay Competition and Painting Competition - On the occasion of "RashtriyaEktaDiwas" NSS unit	NSS	0	60
Distribution of Dengue Preventive Medicine on the occasion of NSS DAY	NSS AND CVR COLLEGE OF ENGINEERING	200	1600
Fit India Movement	NSS	102	400
Blood Donation Camp in CVRCE	NSS	14	33
Free Medical Camp at Pocharam Village	NSS	12	30
International day against drug abuse and illegal trafficking	NSS	10	800
International yoga day	NSS	40	70
Path Guidance Stationery Distribution at Patelguda and Mangalpally	CVR College of Engineering	3	7
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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
RURATHON	First Prize	JNTUH	4
RURATHON	Second Prize	JNTUH	2
National Techno Fest	Second Position with cash prize of Rs. 35000	BITS Pilani	4
Smart India Hackathon-2019	First Prize cash prize of one lakh rupees	MHRD	6
Smart India Hackathon-2019	Rs. 50,000 Cash Prize	MHRD	6
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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
10th National Voters Day	NSS	Voter ID Data Collection as part of 10th National Voters Day through Google Form - Collected data on this occasion and encouraged all to have Voter ID cards.	2	16
Rural Immersion	MGNRCE-MHRD-GOI at Ramakrishna Mission, Hyderabad	complete training program on all the various rural programs	4	50
National Green Corps	NSS	GREEN PLEDGE	100	600
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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/	Duration From	Duration To	Participant

		industry /research lab with contact details			
No Data Entered/Not Applicable !!!					
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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
DVN Infra Projects (P) Ltd	08/11/2019	Enhancing the quality of educations	2
View File			

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
584	291.74

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with Wi-Fi OR LAN	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Others	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Existing
Video Centre	Existing
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing
No file uploaded.	

4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
newgen lab	Fully	3.1.5 Helium	2020

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	78121	21921056	1413	612936	79534	22533992
Reference Books	15533	7075781	190	107467	15723	7183248
e-Books	10109	303740	91	98530	10200	402270
Journals	369	4039072	0	521207	369	4560279
e-Journals	7821	5509795	2842	1109001	10663	6618796
Digital Database	0	186077	0	14160	0	200237
CD & Video	5280	0	0	0	5280	0
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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
No Data Entered/Not Applicable !!!			
No file uploaded.			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	1950	28	225	6	10	165	1440	225	45
Added	150	7	0	2	2	10	60	0	10
Total	2100	35	225	8	12	175	1500	225	55

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

225 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
No Data Entered/Not Applicable !!!	

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
466	312.49	650	482.95

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

Laboratories: Annual maintenance of existing equipment is carried out by the concerned department. Any new equipment to be added Head of the department proposes the details with quotations for approval by the Principal and Chairman of the college. Most of the department add new equipment to meet RD activities in addition to academic requirements

Library: All the departments put up proposals for additional library facilities, interms of reference books and text books. The proposals are normally approved by the college. Every departments adds new books and new additions.

Sports Complex: College has Six Physical Directors including one women Physical Director in the department of Physical Education. Every year inter collegiate games are conducted involving about 10 engineering colleges. In addition sports and games competitions are held every year on the occasion of college annual day. Prizes and certificates are awarded in the college annual day. Many boys and girls students participate in the competitions. In some events faculty also compete with students. Day and night cricket match ground has been developed with flood lights. There are separate three practice nets for practice by students and staff. Inter college competitions are held including this facility.

Computers: College always keep about 30 more than the AICTE norms for the availability of computers in the college. 150 laptops are distributed to Assoc.Professors and faculty doing Ph.D. With the recent norms of AICTE and NBA requirements every department has established computer centre and project lab. All the laboratories, faculty rooms, library have net facility. College maintains Wifi for entire campus. With the upgradation of computers about 200 computers of old configuration have been donated to nearby Government schools to maintain their records and student backup. Faculty of this college have also given training to teachers of those Govt. Schools.

Class Rooms: College has class rooms equal to or more than number of divisions even though the norms of AICTE states that class rooms can be 75 of divisions. College has about 90 class rooms with LCD and OHP facility. Total class rooms available in the college are 122 for the purpose of B. Tech and M. Tech Class rooms and tutorial rooms.

https://drive.google.com/drive/folders/1XF_lC66BNZNRT7sNROAfdNfNZYCFugvTN

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	Gate and Post Metric Scholarships	2068	94955900
b) International	0	0	0

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

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Students Mentoring System	01/07/2019	4800	Faculty Members and Placement cell of the college

Remedial Coaching System	05/08/2020	300	Faculty Members
Personal Counseling	19/08/2020	500	Faculty Members, Placement Cell and External Trainers.
Language Lab	05/08/2019	1200	Faculty Members
Bridge Course	12/11/2019	1200	Faculty Members, Placement Cell and External Trainers
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
No Data Entered/Not Applicable !!!					
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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
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
No Data Entered/Not Applicable !!!					
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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
No Data Entered/Not Applicable !!!					
View File					

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
No Data Entered/Not Applicable !!!	
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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
CIENCIA(Technical Fest)	National Level	400
Annual Day	College Level	4000
Traditional Day	College Level	1500
5K Run	State Level	700
Intercollegiate Sports Festival	State Level	230
Women's Day	College Level	150
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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
No Data Entered/Not Applicable !!!						
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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)

Activity of Student Council representation of students on academic administrative bodies/committees of the institution (maximum 500 words) The following are the methods of counseling of students followed every year. 1. Orientation programmes: On the day of admission orientation programme is organized by the college for all the first year students and their parents. Chairman, Principal, Deans etc address the gathering. Orientation programme follows in the concerned department. 2. Three weeks Induction programme: Based on guidelines issued by UGC/AICTE , a three week special induction programme has been organized for the first year students of 2018 19. Programmes in the areas of Psychology, Culture, Behavioral aspects, Yoga, Sports and games, Personality development were scheduled continuously for three weeks. Specialists from Vivekananda Yoga centre, Psychologists, etc were invited. Senior students also interacted with first year students. This has resulted in good beginning for the first year students. 3. Mentoring: The College adopts mentor/ tutorial system to look after the learning capabilities of students individually. • For 20 students, one faculty is assigned as mentor • Mentor monitors attendance details and academic performance of students • Mentor will assist mentee as a total career councilor • One period per week is allocated in time table for tutorial. 4. Placement and counseling cell of the college: Placement cell and counseling of college organizes number of activities involving industry specialists to guide the third year and fourth year students to be ready for placement interviews. These involve skill development, personality development, attitude, body language etc. About 70 speakers are invited annually to address on various topics. These efforts have materialized to maximum placements of 751 in 2018 2019, offered by various companies. Amazon offered Rs. 28.5 Lakhs for annum for one student and there are 70 students with annual pay packet of 7 Lakhs. CRT : College organizes CRT (Campus recruitment training) programmes for three weeks during winter vacation for B.Tech III year of all branches which is a continuous and compulsory programme. This program is conducted every year. All these programmes have resulted to many students

getting placed by companies. 6. The following are the Committees functioning in the college in which student are members along with Professors and senior faculty. These Committees meet atleast twice a year to propose recommendations for effective functioning in the college. The Committees are: • Library Committee • Extracurricular activity Committee • The internal Grievance Committee • Grievance Committee for Woman • Equal Opportunity Committee etc. 7. Anti Ragging Committee and Anti Ragging Squads: At the beginning of the academic year college constitutes Anti Ragging Committee and Anti Ragging Squads Each Committee consists of senior faculty and students members from each section of the B. Tech II Year . The Committee will have both boys and girls. Anti - Ragging Squads are also constituted as different teams. All these Committees play effective role in seeing that no ragging incidence takes place in the college. The contact numbers of the all the members are widely circulated

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of registered Alumni:

7500

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

1200000

5.4.4 – Meetings/activities organized by Alumni Association :

1. Alumni members are important stake holders of each department. 2. Alumni meetings are held at college level twice in a year. Their ideas and suggestions are taken for development of infrastructure and adding new courses. 3. Boards of Studies, Academic Council of the college and IQAC have alumni as members. 4. In SWOT survey, alumni feedback is valuable. 5. Each department will have interaction using emails or holding meetings two or three times in every year. 6. Their ideas and opinions are invited for framing Vision, Mission, PEOs, POs and PSOs by way of emails or convening meetings in the department

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)

Case Study 1: The college has always promoted decentralization and participative management as a form of democratic governance. Institute has a mechanism for delegating authority and providing operational autonomy to all the various functionaries to work towards decentralized governance system. For decentralized governance system, college grooms the leadership at various levels like Principal, Vice Principal, Deans, Associate Deans, Controller of exams, Heads, Teaching and Non-teaching staff .The College makes its footprint in its academic and administrative tasks through various committees. Important policy-making decisions are taken by these committees. The Management encourages the involvement of stakeholders at all levels of organization in the analysis of problems, development of strategies, and implementation of solutions. The College encouraging faculty, staff and students to contribute through participation at various levels and forums such as: 1. The College Academic Council constituted as per UGC guidelines for all execution related and academic plans for the institution. This committee comprises all Heads of

Departments and senior faculty members of the institution besides the eminent academicians' professionals from various neighboring renowned institutions and industries. 2. Various Committees viz Academic Committee, Board of Studies, R D Committee, Anti Ragging committee, NPTEL/FDP Committee, ISTE, IEEE, Women protection committee, Grievance Redressal committee, Purchases committee, Alumni Association, NSS, Library committee, EDC, Transportation committee, College magazine committee, Cultural Committee, Finance Committee, Placements Committee and IQAC committee constituted for overseeing different operational aspects of the institute functioning is the best example of participative management in action. At any given point of time most of the faculty is involved in at least one committee. These committees define their own plans and are completely responsible for executing them. Regular review meetings are convened by the management and the Principal with the Heads of Departments and the Deans. Monthly meetings are also organized by the Heads with their respective faculty members. One interaction session is held with alumni and parents every year. Interactions are also held with students through class-committee meetings. All these interactions have common agenda of driving the college towards pursuing excellence. Case Study 2: College activities like Annual Day, Graduation Day, Technical Fest (Ciencia) come under best case study. College Annual Day would be the best case study to explain the decentralization and participative management. It is an indicator of the amazing events of the college where decentralization and participative management is implemented right from the management level to the student level. The management conducts a meeting with the Principal to announce the event. The Principal calls for a meeting with all the department heads and College Annual Day Committee would be formed in this meeting. The members of this committee in turn guide and distribute the responsibilities to Student Council heads. The Council heads ensure the participation of all the students. Industry representatives address the gathering. Various Cultural Sports competitions are conducting to encourage students, faculty and non teaching staff. College believes in the culture of participative management.

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
Admission of Students	<ul style="list-style-type: none"> Curriculum revisions take place in every 2 or 3 years Syllabus of leading institutions like IITs, NITs are considered New courses are introduced exposing the latest technology to the students. Regulations were framed in 2012 13 called, R12 Regulations. Choice Based Credit System was introduced in 2015 16 called R15 regulations. Model Curriculum framed by AICTE has been implemented from 2018 19 onwards, called R18 Regulations. As many as 16 open electives are introduced such as Foreign Languages, Ethics etc..in R18 Regulation
Industry Interaction / Collaboration	Departments include their courses of study relevant to industry in the

curriculum. Industrial visits, internships for students, lectures by industry experts and domain experts are regularly arranged. College has MoUs with NRSC, Hyderabad, DRDO , ECIL, MITSUBISHI ,COMSAT,NIEPID etc. There are many Professors on rolls who have worked in Industries like DRDO, BHEL, ECIL etc and their availability in the college has been helping to maintain good industry interaction. It materialized receiving research and consultancy projects. College has ongoing research projects worth about Rs.70 lakhs from various organizations including UGC.

Human Resource Management

- Before commencement of academic year, faculty and staff requirements are assessed. The vacancies are advertised in leading dailies besides placing in college website. Duly constituted selection committees recruit the faculty and technical staff.
- The requirement of faculty and staff is assessed based on the workload as per the AICTE norms.
- Requirements of number of Ph.D holders for each program are met with.
- College has 93 Ph.Ds among 375 faculty . About 54 faculty are doing Ph.D.
- Regular updating of knowledge of teaching and non teaching staff is encouraged
- College has 32 percent excess faculty.

Library, ICT and Physical Infrastructure / Instrumentation

College library is fully computerized and power backed . The overall physical infrastructure is arranged to meet requirements of persons with disabilities. Big class rooms, separate and sufficient number of rest rooms, outdoor and indoor games, day and night cricket ground, gym , state of art laboratories, gardens for the beautification, fully computerized administrative office and Sports departments are in place. Security guards are available. Existing peaceful and healthy environment is supportive for education. Lift , ramps, wheel chairs, ambulance and health center, CC Cameras, fire safety measures, landscape development, solar power panels on all building roof tops are available

Research and Development

1. College provides many incentives and encouragement towards Research and Development.
2. Leave is granted for six months with pay, two to three times

during period of Ph.D work 3. Incentive of Rs.20,000/ per publication is given.

4. Deputation and support towards travel and registration is given to attend conferences. 5. Leave is granted to attend short term programmes 6.

Laboratory Infrastructure is continuously updated to meet not only the academic requirements but also research needs. 7. Each department has separate Research and Design labs. 8.

Each department has more than 25 percentage doctorates.

Examination and Evaluation

- Concept of continuous evaluation is followed with two mid examinations, two assignments, end examinations etc. •
- Transparency is maintained. • Examination committee to ensure smooth conduct of examinations. • Practical program consists of day to day evaluation and end practical examination • The end exam question papers are received from external paper setters whose names are approved by Dean, Academics. • The evaluation of answer scripts are done by senior internal faculty and external experts whose names are approved by Chairman, Board of studies . • The Results Committee meets to finalize and announce results, which has University Nominee.

Teaching and Learning

The content delivery methods used to deliver the course are lectures with interactive discussions, tutorials, demonstration such as laboratory instructions, field visits etc., group discussions, seminars, major and mini projects are all part of the program. Feedback from the students collected twice in a semester helps for knowledge of effective implementation of teaching learning practices. Academic calendar is followed regularly. Teaching plans and course files are available to students at the beginning of the semester .All class rooms have LCD. Real time and practical examples during lecture sessions are encouraged

Curriculum Development

- Curriculum revisions take place in every 2 or 3 years • Syllabus of leading institutions like IITs, NITs are considered • New courses are introduced exposing the latest technology to the students. • Regulations were framed in 2012 13 called, R12 Regulations. • Choice Based

Credit System was introduced in 2015 16 called R15 regulations. • Model Curriculum framed by AICTE has been implemented from 2018 19 onwards, called R18 Regulations. As many as 16 open electives are introduced such as Foreign Languages, Ethics etc..in R18 Regulation

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

E-governance area	Details
Planning and Development	Infrastructure : All the departments plan for purchase of equipment and other infrastructure. This involves inviting quotations, processing and obtaining approvals. This entire job is done by e correspondence. Planning of buildings: College always will have 20 percent excess building space than minimum required. For existing buildings and new buildings under construction, digital plans are available. The allocation of class rooms, tutorials etc. are identified for the academic year by reorganization of rooms from the digital plans. All financial transactions are online and computerized. Salary remittances are online to banks.
Administration	The administration of office dealing with students, faculty, admissions are fully computerized
Finance and Accounts	All the salaries of teaching and non teaching staff are computerized and remittances are online. 80 purchases leading to accounts are digitized
Student Admission and Support	The admission of students at college is based on online data furnished by the Convener, State level Admissions Committee. All the students allotted to college furnish admission data in the online application form and are registered at college. All the students IDs are issued in digital form. The course registrations, including professional and open electives are done online before the last date.
Examination	Students registrations for examinations and hall tickets generation are automated . Internal exam results are put up in college website for access to students and parents under password control The answers scripts are evaluated and processed through a special purpose software in the examination branch. The results are put

on the college website. Marks memos and certificates are also generated through special purpose software. All provisional certificates are generated with high security identification marks. All correspondence to University like communicating the end exam results, copies of provisional certificates are all as soft copies and through emails

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
No Data Entered/Not Applicable !!!				
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)
No Data Entered/Not Applicable !!!						
View File						

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 !!!				
View File				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
39	39	15	15

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Research: The College has been giving top priority for quality of teachers and acquiring higher	• Medical reimbursement of Rs.5,000/ per year is given to all the nonteaching staff whose	• Prime Minister's Scholarship scheme Central Armed Police Forces and Assam Rifles Ministry of

qualification. To see that faculty pursue Ph.D, incentive is available to have 67 months of paid leave with salary and twice during Ph.D. work. Further an amount of Rs. 25,000 each is sanctioned thrice at different stages. This has helped many faculty to register with Universities like JNTU, OU, University of Hyderabad other JNTU universities. Research Publications: College is known for awarding many incentives to encourage research. For every publication an incentive of Rs.20,000/ is awarded based on the recommendation of Research Committee. College has a research inhouse journal published biannually with ISSN number 22773916 with 10 volumes already published. Faculty members writing a text book are rewarded with Rs. 20,000. A. Incentives for service Security • Contributory Provident Fund for Faculty • Employees Provident Fund for Nonteaching Staff • Group Insurance Scheme • Interest free loan So far, 56 employees are availing loan with outstanding amount of Rs. 20 Lakhs • For NonTeaching Technical staff with salary below Rs.15000/ medical reimbursement of Rs.5000/ per annum is allowed. • Crèche for infants and toddlers • Maternity leaves are provided to the lady faculty • Medical leaves are provided to the staff • Free travel in college buses for all employees. • Professors are provided Car travel. B. Incentives

salary is below Rs.15,000/. • Three months paid maternity leave is provided for the nonteaching staff who have completed 2years of continuous service. • Leave on medical grounds 6 months on half pay is given for the nonteaching staff in every 5 years of their service.

Home Affairs. • Under State Government Reimbursement of tuition fee. • Under Central Government Central Sector Scheme of Scholarship applicable for minority students based on merit. • Under Central Government Central Sector Scheme of Scholarship (MHRD) applicable for meritorious students. • Book Bank service is provided for SC ST students for all semesters. • Scholarship is provided for the M.Tech students who have qualified in GATE

for skill up gradation and professional advancement • Higher start for Higher qualifications • 2006 Revised Pay Scales implemented from 1st July 2011 • Incentive of Rs. 20,000/ for each textbook published by standard publisher • Incentive for improvement of qualification. Yearly financial grant of Rs.10000/for doing M.Tech. while in service on parttime basis for each of the 3 years period • Incentive for Presentation of Paper in Conferences/ Seminars- Rs. 10,000/ is given to staff for a paper presented in Conferences / Seminars. • Payment of Rs.20000/ for an article/ paper published in a standard research Journal • A staff member doing Ph.D. is given a total incentive of Rs.75000/- in three phases. In addition he / she is given study leave with full pay for periods ranging of 7.5 months. This will be granted twice during Ph.D work. Travel Grant for presentation in the conferences. International Travel Grant.

6.4 – Financial Management and Resource Mobilization

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

INTERNAL AUDIT: College invites budget proposals from each department under different Heads like infrastructure, R D, Maintenance, Travel etc. These proposals are reviewed in two or three meetings, keeping in view the availability of funds. The proposals are received not only from academic departments but also from College Administration which involves salaries, campus infrastructure, building activity, maintenance and repairs etc. All these proposals, after finalization internally, are placed before the Finance Committee. The recommendations of the Finance Committee are placed before Governing Body for approval. The approved budget is communicated to all departments and units. This exercise is completed before the commencement of next financial year. **MONITORING:** College has Dean, Planning, who reviews and

interacts with Heads and other Incharges for monitoring of extent of spending of the allocated amount. Review meetings are held once in two months to monitor and guide the departments. The purpose is to ensure that proportionate expenditure is incurred. Any problems like delay by suppliers etc. are reviewed periodically. Where ever necessary re appropriation is done for the budget allocation. **INTERNAL AUDIT:** Dean, Planning and Vice Principal of the college conduct internal audit periodically so that the expenditure is incurred within the time limit. Spending of the allocated amount by every department is primary goal in internal monitoring and auditing. **DEPARTMENTAL ACADEMIC AUDIT:** Each department will have Academic Audit done every year. Data is collected from the department in required format, which includes budget and expenditure statements under different Heads. These reports are reviewed by a senior internal professor of the department. Separate External Audit is conducted by a senior professor from University like OU, JNTU etc. This body will inspect each department for all infrastructure facilities, R D, allocation of budget, expenditure statement etc. The observations are furnished by the External Professor. The observations and Action Taken Report for each department are displayed in the college website with link of the concerned department **EXTERNAL ADMINISTRATIVE AUDIT:** External Administrative Audit is conducted by a two member committee of Professors from other Universities, assisted by internal professors, department wise. This committee not only does the review of each department but also items related to college. Faculty involvement, their salary details, college budget and allocation are all covered in this audit. The Committee visits the common facilities also. The remarks of the Committee are furnished to the college including financial aspects. The Action Taken Report and remarks of the Committee are displayed in the college website under Administrative Audit Report. This is available in the college website. The observations of Academic Audit and Administrative Audit are helpful for improvement and taking corrective measures. Each Department and College will takeup necessary action on the observations for better functioning. The remarks are also helpful for preparing next year Budget.

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
CVR College of Engineering	350000	UAV Research Project and NANO
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6.4.3 – Total corpus fund generated

2097215

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	Senior Professors of Osmania university Engineering College, Hyderabad	Yes	Deans and Senior Professors of CVR College of Engineering, Hyderabad
Administrative	Yes	Senior	Yes	Deans and

		Professors of Osmania university Engineering College, Hyderabad		Senior Professors of CVR College of Engineering, Hyderabad	
6.5.2 – Activities and support from the Parent – Teacher Association (at least three)					
1. Feedback on curriculum 2. Feedback on overall discipline 3. Performance monitoring of their wards					
6.5.3 – Development programmes for support staff (at least three)					
1. Organizing communication skills training thrice a year. 2. Soft skills training programmes. 3. Technical staff to undergo training for new software and equipment.					
6.5.4 – Post Accreditation initiative(s) (mention at least three)					
1. Continuous assessments of POs and PSOs based on the results of every student in internal and external examinations, direct and indirect feedback 2. Re examining the syllabus content of each course and addition/ deletion of existing courses/ Chapters . 3.Recruitment of faculty with higher qualification Ph.D 4. College has about 93 faculty with Ph.D qualification 5.Adding new courses – college has started new B.Tech program in Computer Science and Information Technology (CSIT) after approval by AICTE and Affiliated University, JNTU, Hyderabad.					
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		Yes			
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	IQAC Guidelines to conduct workshops, guest lectures, industry visits etc	02/12/2019	02/12/2019	30/04/2020	1200
2020	CRT Programme for Students of 3rd Year, Guest Lectures, FDP etc.	02/12/2019	27/02/2020	29/04/2020	1200
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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
a separate course of Gender Sensitization has been introduced as a Mandatory course in B.Tech second year level	01/07/2019	30/11/2019	360	840

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
<p>The total capacity of solar PV plants in the campus is 360kWp with seasonal tilt type, single axis oriented and polar tracking type. More than 60 percent of the power requirement of the college is met by these Solar plants. No pollution, less maintenance and it is of grid connected type, where power can be fed to the grid when we do not use. Solar power is used for requirements in Boys and Girls hostel towards heating and lighting systems. Recycling of waste water for watering of plants and landscape development are available. Five multi storeyed buildings have Solar Panels fully on the rooftop. Installation of waste disposal plant with compost, using waste material from Hostels. The biogas produced is supplied to kitchen of canteen for two hours every day. Campus has PLASTIC FREE campaign. Installation of signages and availability of "USE ME " box in the campus at number of places. Re circulation of waste water is a continuous job in the campus for landscape development Sewage treatment plant is functioning in the campus with proper maintenance. CC Cameras are installed in all the corridors of all buildings. The entire campus has lot of trees, energy plants, fountains etc. well laid roads, separate parking facility for buses and cars having clear markings are available. Soak pits, check dams are arranged at required points.</p>

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	18
Provision for lift	Yes	18
Ramp/Rails	Yes	5
Rest Rooms	Yes	12
Scribes for examination	Yes	18
Special skill development for differently abled students	Yes	18
Any other similar facility	Yes	4

7.1.4 – Inclusion and Situatedness

Year	Number of	Number of	Date	Duration	Name of	Issues	Number of
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	initiatives to address locational advantages and disadvantages	initiatives taken to engage with and contribute to local community			initiative	addressed	participating students and staff
2020	1	1	19/02/2020	5	Village survey	Pocharam Village	40
2020	1	1	01/02/2020	8	School Cleaning	Mangalpal li	53
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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Universal Human Values (Mandatory course)	02/12/2019	Topics covered are Understanding Value Education, Its self exploration. The basic human aspiration involving continuous happiness and prosperity programme to fulfill basic human aspirations. Understanding the human being has the coexistence of self and body including harmony to the self. Harmony in the family- understanding values in human relationships.
Essence of Indain Knowledge traidtion (Mandatory Course)	02/12/2019	Topics cover are Basic structure of Indian knowledge system covering Asthadasa, Vedanga, Upanga, Upanisads, Modern Science and Indian Knowledge system to cover growth of Scientific, technical and medical knowledge through ayurveda - vedic mathematics, astronomy, holistic science and vedanta, engineering aspects in ancient traditional literature. Yoga and Holistic Health care, Unity in Diversity in India.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Induction Programme	05/08/2019	16/08/2019	1200

Yoga and meditation	15/06/2019	30/06/2019	1200
Personality Development	15/06/2019	30/06/2019	1200
Yogasannas by Professionals from Hanuman Vyayamasala	15/06/2019	30/06/2019	1200
Motivational workshop by Dr. Veerendranath	15/06/2019	30/06/2019	1200
Universal Human Values	15/06/2019	30/06/2019	1200
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

The college is situated in the lap of green and resplendent natural beauty with a variety of flora and fauna. The inmates of the college are very careful to keep the campus plastic free. Various clubs and forums are actively involved in the maintenance of ecological balance in the campus. The initiatives that have been put in place to promote the concept of 'reduce, reuse and recycle' contribute to protect the environment. The institute have the following eco friendly scenarios. They are • Use of solar energy • Waste Segregation • Waste Water Recycling • Rainwater Harvesting • Replacing tube lights with LED bulbs • C C Cameras • Water Hydrants for fire safety • Sprinklers for landscape and lawns. • Sewage treatment plant • Food waste disposal before and after use from hostels, use of composters, production of Bio Gas ,use of Bio Gas by canteen keep the campus plastic free. Various clubs and forums are actively involved in the maintenance of ecological balance in the campus. The initiatives that have been put in place to promote the concept of 'reduce, reuse and recycle' contribute to protect the environment. The institute have the following eco friendly scenarios. They are • Use of solar energy • Waste Segregation • Waste Water Recycling • Rainwater Harvesting • Replacing tube lights with LED bulbs • C C Cameras • Water Hydrants for fire safety • Sprinklers for landscape and lawns. • Sewage treatment plant • Food waste disposal before and after use from hostels, use of composters, production of Bio Gas ,use of Bio Gas by canteen

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

7.2. Best Practice The "best practices" relevant within the institutional context and pertaining to either academic or administrative or organizational aspects of institutional functioning are as given below: **Best Practice 1:** Student Support services-Career Guidance, innovation Placement Objectives of the Practice: 1. To impart high quality engineering education and achieve high standards of excellence 2. To continuously invest in students support services and prepare them to the ever changing competitive environment. 3. To motivate the students and provide a supportive and professional culture. 4. To constantly upgrade the curriculum by value added courses and to adapt to the rapid changes in technology and innovation in every field of engineering. 5. To make events like Hackathon more relevant and innovative. **The Context** There are numerous factors contributing to successful study outcomes for undergraduate students. Only some of these factors are amenable to influence by the educational institutions themselves There are numerous factors contributing to successful study outcomes for undergraduate students. Only some of these factors are amenable to influence by the educational institutions themselves There are numerous factors contributing to successful study outcomes for undergraduate students. Only some of these factors are amenable to influence by

the educational institutions themselves. The underlying principle of Student Support services is to provide Career Guidance, innovation Placement. The College has a Centre for Student Services and Placement, with major objectives of helping the students in obtaining internships and placements in reputed companies across various industrial sectors.

The Practice 1. Value added courses: University curriculum does not cover all areas of importance or relevance. It is important for higher education engineering institutions to supplement the curriculum by value added courses to make students better prepared to meet industry demands as well as develop their own interests and aptitudes. Being an autonomous college, our college offers a wide variety of value added courses conducted by professionals and industry experts and help students stand apart from the rest in the job market by adding further value to their resume. To meet domestic and global requirements the following skill development courses have been introduced:

1. Verbal Ability
2. Reasoning Logic
3. Data Interpretation
4. Quantitative Ability Lab
5. Industry Oriented Mini Project
6. Advanced English Communication and Soft Skills Lab and Theory
7. Comprehensive Viva at the end of four years.

2. Hackathon: College was one of the centers of Smart India Hackathon (SIH) 2018-2019 which is a nationwide initiative to provide students a platform to solve some of the pressing problems society faces in daily lives, and thus inculcate a culture of product innovation and a mindset of problem solving. The primary objective of this Smart India Hackathon initiative is to create a permanent platform to harvest the creativity and energy of youngsters in the country directly for nation building. Students are encouraged to participate and support given by the faculty and management.

3. NewGen: On July, 2018, DST had approved a maximum grant of Rs. 2.87 Crore over a period of 5 years. This grant will be used for establishment and functioning of NewGen IEDC under the guidance of Entrepreneurship Development Institute of India, Ahmedabad. Altogether 85 projects will be undertaken under this scheme over a period of 5 years. CVR innovation center has been created with a floor space of 5000 sqft with excellent facilities. At any time 10 teams can work for developing modules. The expenditure is completely met from grant sanctioned by NEWGEN- DST Project. From first grant of Rs. 60 lakhs, Rs. 25 lakhs has been allocated for 10 approved modules. Students got benefitted with these innovative works. 15 modules are identified for second year projects.

4. Campus Recruitment Training (CRT): Our College conducts CRT sessions for all the III -B.Tech students during their summer vacation. Classes are conducted on concepts and fundamental principles to crack technical interviews, mock interviews and case based GD's. Leadership talks and competitions are also conducted on a regular basis to help the students during campus recruitment. Ebox is a platform provided to the students in the college to enhance the students' skills in coding on various real world problems more efficiently in different programming languages.

5. Career Guidance: The College has set up a Career guidance and Placement cell which maintains professional relations with the representative of the industry. The HR managers of various companies are invited to the college campus to at a decision making level so that their inputs are considered in the curriculum development. Mitsubishi Industrial Automation Lab was established on 25-02-2015 in collaboration with Mitsubishi Electric India Pvt. Ltd. for the skill enhancement training of students, faculty in the field of Factory automation. Steve Jobs Apple Laboratory has been set up in the Dept. Of Computer Science Engineering (CSE) in May 2017, as an Institutional Resource with the prime objective of imparting Advanced Software Development Skills to the Undergraduate and Postgraduate students of the various engineering disciplines in the state of the art Apple Technologies by conducting Seminars, Workshops, offering UG/PG Projects and Advanced Certificate Level Training programs. It was officially inaugurated by AICTE Chairman Sri Anil D. Sahasrabudhe on 30/03/2018. Evidence of success Hackathon has proved that the students are ready for industry and can handle the problem in the industry. These

innovations make students as a job giver rather than job seeker. CVR College of Engineering had proudly hosted grand finale of Smart India Hackathon for two years in a row. AICTE Chairman, Mr. Anil Sahasrabudhe visited CVR and interacted with students highlighted the significance of Hackathon and appreciated the efforts made by CVRCE. Smart India Hackathon (SIH) :CVR CSE department gave a remarkable performance by a total of 6 teams from the department selected for the Smart India Hackathon Grand Finale 2019, 4 of the 6 teams emerged winners at their respective nodal centers. Problem Encountered and Resources required Students from rural Telangana are in considerable number. The workplace is ever-changing. Employers are demanding increasing flexibility, adaptability, short-term contracts, and project-based work, while job seekers are increasingly demanding job security, higher wages, and better work conditions. Balancing the academics with that of employability skill development programme is a great challenge faced every by year. The college is doing its best by providing student support services and ensuring that students get practical skills and experience that employers are desperately seeking in the students.

Best Practices 2: Research Policy and Support of the Institute

Objectives of the Practice Research is a scholarly and creative activity that supports one of the major academic missions of the institute .The CVRCE is a research-intensive institute that seeks to create and transmit knowledge and understanding through quality research. In order to quantify the outcomes and value of the significant inputs that go into research at the institute are to motivate the faculty:

1. To pursue doctoral programs and research
2. For writing Research Paper.
3. To get various funding projects and patents
4. To organize research based seminars, Workshop FDP

The Context Research is a never ending quest for knowledge.. Today's world is rapidly developing giving way and scope for new research initiatives to have a still better life. To meet such demands a 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 multi-disciplinary research. The Practice Research Policy and Support of the Institute are described below:

1. Policy of paid leave for faculty pursuing Ph.D degree This policy was started in the year 2006. The College has been giving top priority for quality of teachers and acquiring higher qualification. To see that faculty pursue Ph. D, incentive is available to have 6-7 months of paid leave with salary and twice during Ph.D. work. Further an amount of Rs. 25,000 each is sanctioned thrice at different stages..
2. Incentives for publications This has started in the year 2000. For every publication an incentive of Rs.10,000/- is awarded based on the recommendation of Research Committee. Papers received are from other institutions also. Faculty members writing a text book are rewarded with Rs. 20,000. Facilities like individual system, Wi-Fi connection, digital library, equipment's and laboratory are provided to the faculty to promote research.
3. Support for attending and conducting national and international conferences Faculty presenting technical papers in conferences/ workshops TA DA and Registration Fee is sanctioned by the College. The College Management also provides financial support for conducting workshops/seminars/conferences.
4. Patents: Faculty are encouraged to submit innovation results as patents. As of now, College has about 18 Patents published. College provides the necessary financial support for the product development, patent submission and publication and award leading to Rs. 1 Lakh.

Evidence of Success

The College has been giving top priority for quality of teachers and acquiring higher qualification. Owing to the hard work done by the members of faculty, the following achievements have taken place in the Organization

1. About 50 faculty members are availing this facility and doing Ph.D.
2. Already 10 faculty members have availed this facility and obtained Ph. D. Degree.
3. College has about 18 Patents published

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

institution website, provide the link

<http://cvr.ac.in/home4/index.php/igac>

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

The following are the important areas in which the performance of the institute are considered to distinctive to meet its vision and mission. 1. Programmes and Research Centers: Establishing Research Centers will enable admission of Ph.D scholars on regular basis. This facility can be sanctioned by the affiliating University, JNTU. JNTU has sanctioned research centres for ECE and CSE departments and two Ph.D scholars were allotted by JNTU in 2019-20. The stipend is fully paid by the college. Enrollment of Ph.D scholars will help Senior Professors to guide Ph.D level students and offer corresponding courses. 2. Accreditation by NBA AICTE: During the year 2019-20, B.Tech CSE got accreditation for 3 Years based on Tier I from 2019-20. B.Tech ECE and EEE are given extension of Accreditation for 3 more years from the year 2019-20. With this out of 7 eligible programmes of B.Tech six are under accreditation during 2019-20. College has been seeing that the programmes are continuously accredited from the time they acquire eligibility. This gives acceptability from stakeholders and improves placement activities. 3. Entrepreneurship Development Cell: NewGen DST, Govt of India has sanctioned 2.67 Crores for a period of 5 years. 17 innovation projects were started at the beginning of academic year and completed in 2019-20. The approval of projects was given by Advisory Board consisting of Specialist from DST, IEDC Ahmedabad and MSME industrial representatives from Hyderabad. These projects give scope for the students to develop innovative approach. The projects can also help for MSME industries to adopt them. 4. Hackathon: Government of India has been encouraging innovative ideas from the students to solve identified problems of industries by organizing national level Hackathon programmes. Students of the college have participated in Hackathon programme held at IIT Kharagpur. The team received a cash prize of one lakh rupees and further opportunities from the Government of India to extend their product under Ministry of Coal. 5. J Hub: Jawaharlal Nehru Technological University, Hyderabad has launched a University wide Innovation and RD initiative J-Hub- JNTUH Innovation Hub, from the academic year 2017-18. J-Hub made it mandatory to conduct a Hackathon in the colleges. In this regard, CVR College of Engineering conducted 'RURATHON', (Rural development Theme), a 36 hours Hackathon (League level) on 27th 28th December, 2019 in the campus, in association with JHUB - JNTUH. In this Rurathon, 90 teams (each team consisting of 2-4 members) from 13 colleges participated. The total number of participants was 327. Out of 327 participants, a majority of students were from CVRCE (231) and the rest of them were from other colleges. The Chief Guest of the programme was Dr Ch. Subrahmanyam, Senior Technical Officer ECIL, General Manager SBU2 Satyam.

Provide the weblink of the institution

<http://cvr.ac.in/home4/index.php/igac>

8.Future Plans of Actions for Next Academic Year

The following are the future plans for the year 2020-21. 1. New Technology Courses: UGC and AICTE have identified new technology courses which have great demand from parents and industry. College desires to apply for B.Tech programmes in Computer Science and Engineering with specialization of Artificial Intelligence and Machine Learning, Data Science and Cyber Security. These courses are highly preferred in admissions. Interaction with industry personnel and Governing Body of the college encourage the above courses. PG Programmes: Most of the departments in college have M.Tech programmes. In 2020-21 college desires to

encourage the departments having only B.Tech programme to apply for PG programmes in specializations of good demand. Existing departments are also to add few more M.Tech programmes based on demand. Research centers: The affiliating University JNTU, sanctions Research Centers to college. Already departments of ECE and CSE are recognized as Research Centers by JNTU. It is a happy note that two Ph.D regular scholars are allotted to CSE and ECE departments by JNTU. Their stipend is paid by the college. College desires to apply for sanction of Research Centres for the departments of Civil, Mechanical and EEE, keeping in view the availability of senior faculty. Research Activity: College has been continuously encouraging faculty to do Ph.D . Already 120 faculty members are at different stages of Ph.D work. They are also paid many incentives towards encouragement for Ph.D work. College desires to stress on the publications in International Journals, Conferences with Index like Scopus etc. All the departments are continuously encouraged by the Dean, Research to apply for various funding agencies like, AICTE, UGC, DRDO etc. This will enable college receiving additional research grants. Entrepreneurship Development Cell: With the availability of sanction of 2.67 Crores from NewGen DST, Govt. of India, 10 more innovation projects are initiated to be completed by the students under the mentorship of faculty . Each project is sanctioned an amount of 2.5 Lakhs. These 10 projects are to completed and approved by the Advisory Board in 2020-21. Industry Support Labs: Mitsubishi Electric Company has been continuously providing interactive programmes with EIE department. A separate lab was established based on the advance equipment supplied by Mitsubishi. It is proposed to have further interaction with Mitsubishi to organize industry support events/ seminars. Interdisciplinary activities: There are Research areas like Nano technology, Material science etc where the academic and research activities can be jointly taken up by more than one department in the college. Department of Physics, Mechanical Engineering and EIE have ample scope in activising inter departmental academic programmes. This area will be encouraged as future activity. NIRF: The goal of college is to activise all the parameters countable for grading of NIRF.College has a goal to get listed in 1-100 band of NIRF in 2021. Activities of IQAC: The advises given by IQAC will be rigorously implemented, particularly elevating the quality of Conferences, Workshops and publications which will add creditability.