



## Yearly Status Report - 2019-2020

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>		DNR COLLEGE OF ENGINEERING AND TECHNOLOGY
Name of the head of the Institution		Dr G.V. Raju
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		08816-221237
Mobile no.		9440711775
Registered Email		dnr cet@gmail.com
Alternate Email		principaldnr cet@gmail.com
Address		BALUSUMUDI, BHIMAVARAM, WEST GODAVARI DISTRICT, ANDHRA PRADESH, INDIA
City/Town		BHIMAVARAM
State/UT		Andhra Pradesh
Pincode		534202

<b>2. Institutional Status</b>	
Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Urban
Financial Status	private
Name of the IQAC co-ordinator/Director	Dr B.V.S VARMA
Phone no/Alternate Phone no.	08816221238
Mobile no.	9121214528
Registered Email	dnr cetnaac1@gmail.com
Alternate Email	principaldnr cet@gmail.com

<b>3. Website Address</b>	
Web-link of the AQAR: (Previous Academic Year)	<a href="https://dnrcet.org/web/igac">https://dnrcet.org/web/igac</a>
<b>4. Whether Academic Calendar prepared during the year</b>	Yes
if yes, whether it is uploaded in the institutional website: Weblink :	<a href="https://dnrcet.org/web/academics/academic-calendar/">https://dnrcet.org/web/academics/academic-calendar/</a>

<b>5. Accrediation Details</b>
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Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B++	2.77	2019	15-Nov-2019	14-Nov-2024

<b>6. Date of Establishment of IQAC</b>	04-Jul-2016
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<b>7. Internal Quality Assurance System</b>
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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
awareness program on safety in construction	28-Dec-2019 1	66

works		
Various approaches to crack the GATE	01-Oct-2020 1	51
lecture on PLC and Automation	20-Dec-2019 1	85
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**8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Institution	For Conducting the AICTEISTE refresher programmes	AICTE	2020 6	300000
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<b>9. Whether composition of IQAC as per latest NAAC guidelines:</b>	Yes
Upload latest notification of formation of IQAC	<a href="#">View File</a>
<b>10. Number of IQAC meetings held during the year :</b>	6
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	<a href="#">View File</a>
<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	No
<b>12. Significant contributions made by IQAC during the current year(maximum five bullets)</b>	
Effective content delivery using ICT Tools.	
Facilitation and support to the students for their co-curricular activities.	
Initiated the Industry-Institute Partnership Centre (IIPC) of the institute is a dedicated to promote the close interaction of industry and various departments of the institute	
Timely submission of AQAR to NAAC.	

Participation in NIRF.

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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
To enhance the knowledge in beyond the syllabus.	Knowledge in beyond the syllabus, supported by the online NPTEL Courses.
To encourage all the faculty to take up at least one NPTEL online course per year to enhance the technical knowledge	11 faculty members were successfully completed the NPTEL Courses in all the programmes.
To conduct academic audit for all the programmes for each semester	The internal and external audit to all the programmes was conducted during the academic year 2019-20.
Alumna Meet	Organized the Alumnae meet for all UG alumnae.
To encouraging students to certificate courses and value added courses	82 students attended certificate courses and 175 students are attended to value added courses.
To implement Garnishing Talent program for S.E. students.	It helps the students to improve their soft and communication skills, personality and other skills.
To carry out English Language Training Program	Weak student in English Language identified and special sessions conducted for vernacular medium students and also Diploma students.
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**14. Whether AQAR was placed before statutory body ?**

Yes

Name of Statutory Body	Meeting Date
Governing body	19-Nov-2020

**15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?**

Yes

Date of Visit

14-Nov-2019

**16. Whether institutional data submitted to AISHE:**

Yes

Year of Submission

2020

Date of Submission	02-Mar-2020
<b>17. Does the Institution have Management Information System ?</b>	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>Institution is Managing Information System (MIS) through ECAP software. The data pertaining to faculty, staff and students is made available in this system. The transparent communication is in place through this MIS. Parents can track the attendance and performance of their ward, officials can monitor the class work, organization of training programs, workshops, etc. and other activities of the college. Students counselling and guidance is possible in this system. The issue and return of the library books can also be done through this MIS. The details regarding the fee payments, dues can be read. The following are the Mainmodules incorporating in this MIS. 1. Admin 2. Admissions, 3. Academics, 4. Examinations , 5. Employee 6. Correspondence The following are the Submodules incorporating in this MIS.</p> <p>1. Admin : Academic Calendar, College Details, Diary, Holidays, News Events, Circulars, Library Books, Leaves History 2. Admissions : Admission Register, Circular, Library Books, Leaves History 3. Academics : Absentees Report, Academic Register, Attendance Report, Counselling, Current Time Table, Disciplinary Action, Faculty, Internal Marks, Leaves, Lesson Plan, Projects, Resources, Students, Student Profile, Syllabus Coverage, Teaching Plan, Teaching Schedule, etc. 4. Examinations : Examination Schedule, External, Internal, Invigilation Charges, etc., 5. Employee : Leave Management, Payroll, Report, etc. 6. Correspondence : Complaint / Suggestions, Greetings, Inbox, Parents Address, Parent Correspondence, Staff list, Students List, etc.</p>

## Part B

### **CRITERION I – CURRICULAR ASPECTS**

#### **1.1 – Curriculum Planning and Implementation**

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

? Department calendar of events is prepared well in advance before the commencement of the semester based on college calendar of events. It consists of the activities planned for the semester which includes internal test dates, conduct of events like organizing guest lectures, work-shops, conferences etc.

? Subject allotment is done well in advance for the staff to prepare lesson plans, course plan, soft and hard copies of the lecture notes. ? As per the university guidelines experiments are conducted. ? The faculty of department adopts various Teaching & Learning methodologies to create the best learning environment for students. These methodologies include traditional black board teaching, presentations and video lectures (NPTEL). ? Assignments are given to students for their better performance. ? Invited talks and seminars on the current trends are done regularly from the industry persons. ? Remedial classes are conducted for the slow learners based on their performance in exams . ? Industrial visits are conducted to reduce the gap between industry and institute. ? Workshops, seminars and guest lectures are organized to help the students to understand concepts beyond curriculum

#### 1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
certificate programme on Totat station survey	Nil	03/02/2020	6	Employability	Field work skills were developed
certificate Course on STAAD PRO	Nil	27/01/2020	12	Employability	Design skills were developed
Certificate programme on E-Tabs	Nil	10/02/2020	12	Employability	Design skills were developed
certificate program on Modeling, Simulation and Implementation using MATLAB and Simulink	Nil	22/07/2020	7	Employability	Technical skills were developed
workshop on Emerging Trends in VLSI Signal Processing	Nil	10/02/2020	7	Employability	Technical skills were developed
Two week workshop on Electrical power systems	Nil	30/12/2019	14	Employability	Technical skills were developed

A Two day workshop on Programmable logical controllers	Nil	24/02/2020	02	Employability	Design skills were developed
certificate program on ANSYS software	Nil	26/08/2019	06	Employability	Design skills were developed
one week workshop on ROBCAD	Nil	10/02/2020	06	Employability	Technical skills were developed
certificate program on Data Science Using R Programming	Nil	09/09/2019	05	Employability	Technical skills were developed
certificate program on Advanced Python	Nil	14/02/2020	05	Employability	Technical skills were developed

## 1.2 – Academic Flexibility

### 1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BTech	CE, ME ECE, CSE EEE	10/06/2019
Mtech	SE, DECS,MD, CSE	16/09/2019
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### 1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	CE, ME, ECE, CSE, EEE	10/06/2019
Mtech	ECE, CSE, CE, ME	16/09/2019

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

	Certificate	Diploma Course
Number of Students	1093	0

## 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
Training on Aptitude and Reasoning	17/06/2019	35
Training on Interpersonal skills	15/07/2019	35

Training on Leadership Qualities	12/08/2019	40
Training on Emotional intelligence	02/03/2020	35
Training on Communication skills	16/03/2020	35
<a href="#">View File</a>		

### 1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	CIVIL	150
BTech	EEE	50
BTech	MECH	100
BTech	ECE	150
BTech	CSE	100
Mtech	CIVIL	5
Mtech	CSE	3
Mtech	ECE	3
Mtech	MECH	1
<a href="#">View File</a>		

## 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)

<p><b>Feedback Obtained</b></p> <p>At the end of first month of each semester, feedback is collected from students by HOD. The collected feedback is summarized and the consolidated report is sent to Principal. The faculty with average and poor feedback are counselled by Principal in the presence of HOD. After the completion of I mid exam, once again the online feedback is collected. The collected feedback is summarized and a consolidated report is prepared by feedback coordinator and submitted to HOD. Based on the report of HOD, Principal will take the necessary action to solve the issues. The feedback from outgoing students also is taken and a consolidation report is prepared by feedback coordinator. The report is sent to Principal and Management. The points and suggestions given by the outgoing students are taken into consideration and effort is put to implement the points suggested by the students. For the effective implementation of the Academic system, the following feedback methods are adopted. Direct Feedback from Students: Each Section of the department has a Class Committee consisting of students, class teacher and HOD. Students are invited to express their views on various subjects, pedagogical methods and academic environment of the</p>
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department. Interactive Feedback: Principal and HOD interact with students directly in the absence of teachers for unbiased feedback covering performance of teachers, coverage of syllabus etc. Online Feedback: The consolidated feedback of all subjects is collected online and analysed by HOD.

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

#### 2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BTech	ENGINEERING & TECHNOLOGY	540	400	365
Mtech	ENGINEERING & TECHNOLOGY	72	50	29

[View File](#)

### 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	1337	68	75	7	26

### 2.3 – Teaching - Learning Process

#### 2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
108	108	6	11	3	3

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

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

The college has well established mentoring system for all round development of students. From the date of joining the institution, the students are monitored on regular basis to excel in Academic Curricular, Co curricular and Extra Curricular activities. A group of 15 to 20 students are allotted a faculty counselor to personally monitor allround development of the students. The counselors inform the attendance details and academic performance of the students to their parents, weekly once. Also faculty member counsel the students monthly once and guide them on various academic and curricular aspects. The progress report of the students is sent to the parents through letters after each mid exam and after the announcement of University results. Aptitude training and Communication training are provided by the department for the professional development of students. Various cocurricular and extracurricular activities are conducted every week under Department's students Association and Professional association Chapters

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1337	108	1:12

## 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
108	108	0	16	3

### 2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2020	D D D SURI BABU	Associate Professor	NATIONAL AWARD FOR IMPACT CREATORS IN ENGINEERING EDUCATION IN COMMEMORATION OR 150th BIRTH ANNIVERSARY CELEBRATIONS OF MAHATMA GANDHI

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## 2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BTech	01,02,03,04,05	8/4	01/08/2020	25/10/2020
Mtech	87,15,38,58	4/2	20/07/2020	20/08/2020

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### 2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

As an affiliated institution of JNTUK, evaluation norms of the university are followed. The university has adopted major reform in evaluation by introducing credit based grading system from the academic year 2016-7 and the institute has adopted the same. The College has its own system of continuous internal evaluation of the students within the frame work of university regulations. There is a two stage process at the institution level for continuous evaluation of students: Formative Assessment and Summative Assessment. Formative Assessment: • The IQAC mandates the teachers to use classroom tests for the evaluation of students. • The College has the practice of conducting Question-Answer sessions to understand the learning levels of students and evaluate the concept clarity. • Student Seminars to assess presentation skills and ability to participate • Assignments for each unit. Summative Assessment: Continuous assessment in theory subjects: As per the JNTUK regulations, two internal mid-term examinations will be conducted. As per R16 regulation, the better performance will carry 80 and other one carries 20 of weight age in the total 25 marks allotted for internal tests. As per R19 regulation, the total 25 marks allotted for internal tests. Continuous assessment in practical subjects: As

per R16 regulation, There shall be a continuous evaluation during the semester for 25 sectional marks and 50 end-examination marks. Out of the 25 marks for internal, day-to-day work in the laboratory shall be evaluated for 15 marks and internal examination for practical shall be evaluated for 10 marks conducted by the concerned laboratory teacher. As per R19 regulation, There shall be a continuous evaluation during the semester for 20 sectional marks and 30 end-examination marks. Out of the 20 marks for internal, day-to-day work in the laboratory shall be evaluated for 10 marks and internal examination for practical shall be evaluated for 10 marks conducted by the concerned laboratory teacher. Continuous assessment in projects: As part of the internal assessment of projects which are done in IV year, college follows the following framework.

- Project Review Committee (PRC) is formed for every department consisting of Head of the Department, Project In charge and two senior faculty members to identify the projects.
- Students are formed into groups of 4 or 5. The groups collect the literature on a topic and review the literature and submit the title with objective, plan of action for title approval to PRC.
- Project Review Committee assesses and approves projects for each group. After obtaining the approval of the PRC the groups are allotted with a faculty member as a Guide for the project and can start the Project work.
- Review meetings are conducted for the continuous assessment in project. Review 1 covers abstract and block diagram, Review 2 covers implementation and Review 3 covers final results with code. The Institution scrupulously follows the norms set by the University for conducting the internal and external examinations.

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

The academic calendar will be issued by the Affiliating University JNTUK, which has to be followed meticulously.

- The Principal and the HODs, together in consultation with faculty, prepare the academic and examination calendar, based on the university calendar incorporating curriculum, co-curricular, extracurricular activities.
- Each department has its own calendar, which strictly follows the university calendar. Each member of faculty plans his/her lessons in compliance with the university academic calendar.
- Academic activities of the institute are scheduled in the academic planner in tune with university academic calendar at the beginning of each academic year. It is mandatory for students / faculty to strictly adhere to the academic calendar for completion of academic activities.
- The academic year shall be divided into two semesters. The Semester that begins in June shall be called as odd semester and the semester that begins in December is known as even semester.
- The total duration of the each Semester shall include registration, teaching, continuous internal evaluation, tests, end of semester examination, evaluation, result declaration and vacation.
- First midterm examination shall be conducted for the first 3 units of syllabus second midterm examinations shall be conducted for the remaining 3 units as per the dates specified by the university.
- The internal examinations for practical sessions will be conducted before the end theory examinations as per the schedule given by the university.
- The end examination shall be conducted as per the timetable fixed by the university.
- College should upload the internal marks of theory subjects, lab work, mini project, technical seminar, comprehensive viva and main project in the stipulated time given by University. Hence being an affiliated college, it adheres to the academic calendar decided by the university.

## 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://dnrcet.org/web/cos-and-pos/>

## 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
58	Mtech	CSE	8	5	75
38	Mtech	DECS	2	2	100
15	Mtech	MACHINE DESIGN	4	2	50
87	Mtech	STRUCTURES	6	6	100
05	BTech	CSE	92	55	59.78
04	BTech	ECE	90	61	67.78
03	BTech	ME	58	36	62.07
02	BTech	EEE	34	21	61.76
01	BTech	CE	49	38	77.55
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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://dnrcet.org/web/wp-content/uploads/2021/01/Student-Satisfaction-Survey.pdf>

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Any Other (Specify)	18	AICTE/ISTE	300000	0
<a href="#">View File</a>				

### 3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
A One day seminar on "Basics of Finite Element Methods"	ME	21/12/2019
Intellectual Property Cultural heritage in digital world	BSH	15/02/2020
A One day workshop on "3-D printing"	ME	11/02/2020
One day Seminar on 5G Wireless Technologies	ECE	27/06/2019

Two day workshop on PCB Design	ECE	13/09/2019
Two day workshop on Emerging Trends in Optical Communication Systems and Networks	ECE	11/03/2020
A Three Day Workshop On " Python Programming and its Applications"	CSE	21/07/2019
A Two Day Workshop On " Industrial Oriented Programming with C"	CSE	16/12/2019
A Three Day Workshop On "Mobile Application Development Using Android"	CSE	19/12/2019
A Three Day Workshop on "DATA SCIENCE"	CSE	24/02/2020
Strategies For IPR Plagarism	BSH	20/08/2019
Seminar on "Bulding Information Modelling- its importance"	CIVIL	29/02/2020
A three day workshop on RIVIT ARCHITECTURE	CIVIL	26/02/2020
A one day seminar on artificial intelligence	EEE	13/08/2019
A two day workshop on electrical power systems	EEE	30/12/2019
A two day workshop on plc	EEE	24/02/2020
A One day seminar on " Natural Fibers Synthetic Fibers"	ME	24/06/2020
A One day seminar on " Career Opportunities for Mechanical Engineering students"	ME	02/07/2019

### 3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
UTHAMA ACHARYA PURASKAR	Mr. D D D SuriBabu	IMPACT	10/02/2019	National Award for Impact Creators in Engineering Education in Commemoration or 150th Birth anniversary Celebrations of Mahatma Gandhi
BEST	Mr.Y.Srinivas	SIR C R R	14/11/2019	FDP on

PERFORMER		Engineering college, Eluru, A.P.		Biomedical Signal Processing
BEST PROJECT	V.NAGA BHAVANA	GVIT Engineering college, BHIMAVARAM, A.P.	04/03/2020	Circuit-X
BEST CODER	V.NAGA BHAVANA	GVIT Engineering college, BHIMAVARAM, A.P.	04/03/2020	Code Debugging
First Prize	S. Tanooj Kumar	Vishnu Institute of Technology, Bhimavaram	21/12/2019	Ideathon-Overall Championship
BEST PROJECT	A.AJAY VARMA	GAYATRI VIDYA PARISHAD College Engineering college, Visakhapatnam, A.P.	03/12/2020	ROBOTICS
CERTIFICATION OF EXCELLENCE	Dr.KVBSR SUBRAHMANYAM	JOURNAL OF SCIENTIFIC RESEARCH	10/02/2020	JOURNAL OF SCIENTIFIC RESEARCH IN RECOGNITION OF AN OUTSTANDING CONTRIBUTION TO THE QUALITY OF THE JOURNAL
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### 3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
Nil	Quality Awareness Cell	DNRCET	Nil	Consultancy	02/01/2019
<a href="#">View File</a>					

### 3.3 – Research Publications and Awards

#### 3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

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

Name of the Department	Number of PhD's Awarded
BSH	1

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	CIVIL	2	Nil

International	CSE	9	Nil
International	ECE	4	Nil
<a href="#">View File</a>			

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

Department	Number of Publication
CIVIL	1
<a href="#">View File</a>	

3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Mining Popular Crime Patterns in Spatial Database	Dr.B V S Varma	International Journal of Computer Application	2019	16	Middlesex University London(Middlesex University Research Repository)	1
Powder Metallurgical Production of 316L Stainless steel based on Injection Moulding	Dr.Md.Ahasan	Journal of Critical Reviews	2020	0	JNTUK	0
<a href="#">View File</a>						

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

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Experimental works on Self compacting concrete by Partial replacement of Rick Husk Ash With Subjected to Acid attack	R Ramya Swetha(1st author)	International Journal of Innovative Technology and Exploring Engineering	2020	0	0	DNRCET

Experimental works on Self compacting concrete by Partial replacement of Rick Husk Ash With Subjected to Acid attack	Dr. U Ranga Raju(3rd author)	International Journal of Innovative Technology and Exploring Engineering	2020	0	0	DNRCET
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### 3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Presented papers	1	Nil	Nil	Nil
Attended/Seminars/Workshops	24	56	Nil	Nil
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### 3.4 – Extension Activities

#### 3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
<b>No Data Entered/Not Applicable !!!</b>			
<a href="#">View File</a>			

#### 3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
A Study on the Impact of Sanitation Program and Its Campaign: With Special Reference to Swachchh Bharat Abhiyan	BEST ECO PROTECT CAMPAIGNERS	NSS ADVAISORY COMMITTEE ADIKAVI NANNYA UNIVERSITY	65
AIDS AWARENESS PROGRAMME	APPRICIATION CERTIFICATE	NSS ADVAISORY COMMITTEE ADIKAVI NANNYA UNIVERSITY	78
PULS POLIO PROGRAMME	BEST MOTIVATNG TEAM	GOVT HOSPITAL BHIMAVARAM	86
PLANTATION PROGRAMM	APPRICIATION CERTIFICATE	MUNICIPALITY BHIMAVRAM	96
<a href="#">View File</a>			



3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
<b>No Data Entered/Not Applicable !!!</b>				
<a href="#">View File</a>				

**3.5 – Collaborations**

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

Nature of activity	Participant	Source of financial support	Duration
<b>No Data Entered/Not Applicable !!!</b>			
<a href="#">View File</a>			

3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
WORKSHOP	ELECTRICAL POWER SYSTEMS ,	CHINMAYA MICRO TECHNOLOGIES	30/12/2019	11/01/2020	STUDENTS
WORKSHOP	PROGRAMMABLE LOGIC CONTROLERS	CHINMAYA MICRO TECHNOLOGIES	24/02/2020	25/02/2020	STUDENTS
WORKSHOP	DATA SCIENCE	MATCHWELL TECHNOLOGY SOLOTIONS	24/02/2020	26/02/2020	STUDENTS
WORKSHOP	RIVIT ARCHITECTURE	DESIGN LABS	26/02/2020	28/02/2020	STUDENTS
SEMINAR	BIM- ITS IMPORTANCE	DESIGN LABS	29/02/2020	29/02/2020	STUDENTS
WORKSHOP	PYTHON PROGRAMMAIN G AND ITS APPLICATIONS ANDROID	COIGN	21/07/2019	23/07/2019	STUDENTS
WORKSHOP	MOBILE APPLICATION DEVELOPMENT USING	COIGN	19/12/2019	21/12/2019	STUDENTS
<a href="#">View File</a>					

3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of
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			students/teachers participated under MoUs
VIDAL NDT	13/11/2018	PROJECTS ,WORKSHOPS ,SEMINARS	59
APSSDC	18/11/2017	INDUSTRIAL TRAINING , INTERNSHIPS	61
YUCAN	22/01/2019	INDUSTRIAL TRAINING , INTERNSHIPS , EMPLOYMENT TO THE STUDENTS IN INDUSTRY	68
DESIGN LABS	17/05/2019	PROJECTS ,WORKSHOPS	55
CHINMAYA MICRO TECHNOLOGIES	18/12/2019	PROJECT ASSISTANCE , WORKSHOPS	35
<a href="#">View File</a>			

#### 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
47.17	47.14

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	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing
<a href="#">View File</a>	

##### 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
Ecap	Fully	2.3	2018



Total	479	330	107	0	0	14	20	140	8
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4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

140 MBPS/ GBPS
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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
Smart board, youtube	<a href="https://youtu.be/b0ZH5LAv76I">https://youtu.be/b0ZH5LAv76I</a>
Smart board, youtube	<a href="https://youtu.be/3hyVaWnlzWY">https://youtu.be/3hyVaWnlzWY</a>
Smart board, youtube	<a href="https://youtu.be/JWejYEZ_ypQ">https://youtu.be/JWejYEZ_ypQ</a>
Smart board, youtube	<a href="https://www.youtube.com/watch?v=ICZfn2b7hIU&amp;list=PLjFAEOEHhHVTnXF7rXFq31BEYFYiIfOt&amp;index=3">https://www.youtube.com/watch?v=ICZfn2b7hIU&amp;list=PLjFAEOEHhHVTnXF7rXFq31BEYFYiIfOt&amp;index=3</a>

**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
101.69	101.54	65.57	64.56

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

Maintaining and utilizing physical, academic and support facilities - Class Rooms/Laboratory The physical facilities such as Laboratories, Classrooms, Library and Sports Complex are maintained by House Keeping under the supervision of Floor Supervisors. Utilization of the classrooms is facilitated to the students in working days and it is also made available to the other governmental / nongovernmental organizations for conducting exams during vacations and holidays. The masonry and plumbing works are carried out with local skilled persons. Lab equipment's are serviced by service personnel during summer and winter vacations. Stock registers are maintained regularly. House Keeping 1. Checking water availability in Toilets 2. Checking Drinking water availability every day 3. Cleaning Class Rooms, Labs, Veranda, Office Room, Staff Rooms 4. Cleaning of Toilets every day 5. Cleaning the campus 6. Checking Furniture's in Class Rooms and Office every month 7. Checking Electrical, Plumbing, Waterline and Sewage line every month Computers The college has an adequate computer with high speed internet connections and software's, distributed in different locales like department's laboratories, library and office. Computers are maintained by internal Staff members. Each laboratory has a programmer, who ensures proper usage of the computers and hazardous equipment's are handled with care. Library The working hours of the library is from 8.30 a.m to 6.00 p.m on working days and from 8.30 a.m to 4.00 p.m. on holidays. Maintenance activities are made periodically to keep library clean. The activities like fumigation, preservation of books from insects, dusts and shelving of reading materials promptly on regular basis by the housekeeping /Library Staff. Sports Complex/ Activities Through best practices, the students outshine in the field of sports. Excellent infrastructure is provided for sports with 400meter running track and Synthetic Courts for indoor sports activities. The play field are maintained by markers and the field equipment

like post, umpire stand, score boards are also maintained regularly. The college uses labourers on daily wages to keep the play field clean and condition during the tournaments and sports day celebrations. The markers control the play equipment like ball, bat, net etc., provided to the students and to collect it back safely and register them in the Equipment movement register Power Supply and Electrical Maintenance Power supply is maintained by regular staff through proper system captive gensets as backup for 24hours. A Kirloskar Make power generator (250KVA) is installed in the campus to handle the occasional power shut down, is under AMC by M/S Network Diesels, authorized Dealer of Kirloskar. Garden Maintenance Tree plantation and garden maintenance are done by the gardener appointed by the Institute. NSS maintain certain areas of the college clean for planting Saplings. Certain areas are allotted for departments.

<https://dnrcet.org/web/facilities/others/>

## 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	FreeShips by DNR CET	518	3369000
Financial Support from Other Sources			
a) National	Fees reimbursement by Andhra Pradesh Govt	1079	55621650
b) International	Nil	Nil	Nil

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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
SOFT SKILLS DEVELOPMENT	23/09/2019	773	COIGN
BRIDGE COURSE	08/07/2019	137	DNR CET
PERSONAL COUNSELLING	10/06/2019	1115	DNR CET
REMI DIAL COACHING	03/02/2020	360	DNR CET

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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
2020	Guidance for career	320	716	Nil	Nil

counselling  
and  
competitive  
exams

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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
5	5	3

## 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
15	300	229	2	50	4

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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
2020	10	B.TECH	CSE,ECE,ME CHANICAL	Nil	M.TECH

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

Items	Number of students selected/ qualifying
Any Other	6

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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
Sports, Game and Cultural Activities	college Level	342

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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/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2020	Nil	National	13	11	Nil	Nil

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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

The active role of student representatives will be clearly evident in all walks of various committees initiated by the college which includes IQAC, Academic Administrative bodies. Students participate in meetings along with the faculty members and put forward their requirements based on the current trends such as Industrial visits, Trainings and Internships. The various academic and administrative bodies, which have student representations in them, are 1. AntiRagging Committee 2. Women welfare/ sexual harassment eradication committee 3. Library committee 4. Transport committee 5. Canteen committee 6. Hostel committee 7. Student activity center 8. Sports committee 9. NSS committee.

## 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Alumni association has been formed with registration number as 25 of 2019 with office of the Andhra Pradesh Societies Registration act of 2001. • DNR CET feels proud of its Alumni association which extends its direct and indirect help for the welfare of our college. Majority of the alumni have their foot prints in top notch companies. Our alumni association helps in supporting our organization goals through creating awareness about the job opportunities accessible in the present world, to craft their juniors for various competitive exams like GRE, TOFEL, and other job oriented exams like RRB, SSC, Groups, Bank, Public Service Commission examinations, and etc., • Alumni help students in creating awareness about special scholarships and free ships available to different categories of students by government and non-government organizations based on their qualification and skills. • The association suggests conducting guest lectures, industrial tours, internships, workshops and seminars, trainings and organizing skill development programs to enhance the knowledge of the students. • The young graduates are in consistent touch with the college through different social networking sites. • The college alumni association has its portal/link available in college website for the fresh graduates, who have completed their course to get registered in the portal by providing their basic information. • Alumni association was probably instrumental in college success. Alumni association is an added feather in the crown of DNR CET.

5.4.2 – No. of enrolled Alumni:

200

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

50000

5.4.4 – Meetings/activities organized by Alumni Association :

One Alumni meeting was organized on 22nd December 2019. 68 members attended.

## CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

### 6.1 – Institutional Vision and Leadership

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

• The institution extended to supports the practice of decentralization and participative management at various levels to meet the institute's vision and mission. The college administrative body comprising of Governing Body (GB), The Principal, Vice- Principal, IQAC coordinator and HODs frames policies to satisfy the needs of the society through involvement of each in the process and



make them effective implementation. Faculty members are nominated as members in various committees and are allowed to recommend their proposals/ suggestions for academic and administrative activities which can enhance the academic excellence. • IQAC playing a significant role in ensuring the quality benchmark of academic activities and this cell initiates/frames the quality policies driven by the needs of the stakeholders. • To ensure participative management the chairperson and coordinators pursue various committees like Alumni, NSS, Training Placements, Library, Women Empowerment Cell etc. and conducts meetings timely (to encourage the faculty and assigns with the roles and responsibility to work in an amicable environment with complete transparency).the committee function on the respective objectives and resolve problems to meet the academic excellence. • Stakeholder's and student's feedback plays vital role in framing the revising polices that create harmonious teaching -learning environment. • The institution strongly believes involvement of staff in decision making and implementing the decentralized decision policy for academic and administrative activities which leads to the realization of institutes vision and mission.

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
Curriculum Development	The institution follows the curriculum prescribed by the JNTUK, Kakinada. To ensure the institutes vision and mission of the institute maintains stakeholder's feedback policy. The purpose of this policy is to ensure the stakeholders perceptions in framing the quality and effectiveness of curriculum implementation. To ensure the curriculum delivery The Institute follows Time tables, work allotment, preparation of study material both soft and hard copies, video lectures, PPT Lectures etc. additional strengths will be provided to the students by organizing workshops, seminars and guest lectures.
Teaching and Learning	Institution provided minimum two smart class rooms for each department supported with smart boards and LCD projectors to create visualization. The academic calendar is strictly followed and monitored for delivering course contents prepared by the concerned faculty. To ensure the student's learning excellence teacher conducts regular assignments and mock quizzes. Feedback is taken from the students in every semester to provide necessary inputs and address the issues related to teaching learning. To increase the effectiveness in teaching- learning the



faculty is encouraged to make use the ICT facilities, video lectures and providing e-content materials. Mentors are allotted for each 20 students they identify weak students and conducts remedial classes between semesters. Encourages the faculty to attend FDPs and workshops to improve their teaching excellence. To ensure the total personality development students are also encouraged to participate in various competitions and activities.

**Examination and Evaluation**

The institute follows the university prescribed academic calendar for process of examinations and evaluation. The internal evaluation process assessed transparently. The Institute conducts mid-term and semester end examinations strictly as per the JNTUK guidelines. Evaluation of end-practical examinations is assessed with written test/oral presentations by the internal examiner and university appointed external examiner.

**Research and Development**

The institute is having research and development cell with the following objectives. To encourage the research culture among the learner community. To create awareness for research and development among faculty and students. Encourages the faculty and students to register Ph.D and paper publications in both national and international journals. Motivates and facilitates students to solve social challenges through technological innovations. During the academic year 2019-20 faculty achieved one Ph.D, 9 papers published in journals and 1 papers published in conferences/ seminars .

**Library, ICT and Physical Infrastructure / Instrumentation**

DNRCET has a modern centralized library with the collection of 36258 with volumes of 7425 titles and 50 national and international journals providing technical dissemination. Digital library equipped with 71 systems connected with internet caters e- resources through DELNET, NDL, NPTEL-SWAYAM, JOURNALTOCS and SHODHGANGA. The campus has a fully Wi-Fi facility with adequate fire safety and security measures. OPAC software is provided for quick and efficient access. The institution maintains ECAP software. ICT classrooms, well equipped laboratories and air conditioned seminar halls providing healthy and

	enthusiastic environment to both teachers and student to focus on their aim. Department libraries are maintained with adequate volumes to create research environment. To ensure the academic standards Software and hardware facilities are up graded as per norms.
Human Resource Management	The institution maintains HR management as per AICTE norms. Faculty has provided casual leave and on duty leaves . The institution follows the transparent process for recruiting required staff by advertising in a leading news paper and college website. Staff requirements are obtained from the Head of the departments and reviewed by the principal is taken to the approval of the management. The institution monitors rules and regulations strictly. The feedback system is maintained. Faculty appraisal system was introduced.
Industry Interaction / Collaboration	Industrial interaction provides industrial exposure to the students. Focus on improving teaching learning process. Institution encourages each department for planning industrial visits. At the beginning of semester every department plans industrial visit and conducts expert talks, workshops, seminars by industrial experts. Number of MOUs is signed with the industries.
Admission of Students	The admission process in the institute is done as per the rules laid by APSCHE through EAMCET, ECET PGCET. 70 percentage of admission through APEAMCET counseling and remaining 30 percentage of admissions of management quota seats are filled directly by the APEAMCET guidelines. Lateral entry admission through APECET counseling. M. Tech students are admitted through AP PGCET.

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

E-governance area	Details
Planning and Development	The institution maintains college automation pack ECAP for academic planning and in various activities. Complete data of every student is uploaded. Student's and stakeholders feedback is taken and is used for teaching learning process and developing new methodologies. Academic calendar is framed as per university

	norms and uploaded in ECAP.
Administration	ECAP Software is used for maximum administrative functions. Employees (Teaching and Non teaching) and students attendance is monitoring through the biometric system. Students and stakeholders feedback is taken for providing quick administrative functions and quality education. Encourages Paperless governance.
Finance and Accounts	The institute maintains all financial transactions through "TALLY". To ensure the speed, transparent and better security online (e-banking) transactions are maintained.
Student Admission and Support	Admission and maintenance data of each student is done through the ECAP software.70 percentage of admission through APEAMCET counseling and remaining 30 percentage of management quota seats are filled directly by the APEAMCET guidelines. Lateral entry admission through APECET counseling. M. Tech students are admitted through AP PGCET.
Examination	An exclusive examination cell looks after all the activities pertaining to the examinations. As per the university schedule this cell conducts theory and practical examinations. The examinations strictly supervised by the chief superintendent of the examination section and university appointed observer. Exam cell executes the following tasks 1. Number of rooms required 2. Seating plan 3. Number of invigilators required etc for the theory examinations. Practical examinations are conducted strictly by Internal and university appointed external examiners. Student's marks are uploaded in college automation software ECAP.

### 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
2020	A N G LAKSHMI	"Seminar On Future Of Biomedical Engineering"	Nil	4334

2020	M PRABHAVATHI	Three day FDP on Advanced Web Technologies	Nill	2400
2020	B SOMANNA BABU	A Workshop on Out come Based Education	Nill	1600
2020	K L S LALITHYA	A workshop on "Computer Aided Design"	Nill	8280
2019	S RAMA LAKSHMI	Seminar on Machine learning and its Applications48	Nill	4800
2019	G SURESH KUMAR	Three days Seminar on Cloud infrastructure and Services	Nill	3333
2019	D JOSEPH KUMAR	Restructured power system modelling simulation	Nill	5000
2019	D JOSEPH KUMAR	a one-day Technical Lecture on "Energy Conservation and Management"	Nill	5000
2019	K SEK HAR BABU	Embeded systems for iot applications	Nill	4800
2020	A N G LAKSHMI	Reasearch Trends in Signal Processing, Antennae, VLSIIOT	Nill	4333
<a href="#">View File</a>				

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	One day FDP on Internet Of Things	Nill	03/07/2019	03/07/2019	15	Nill

2019	A faculty development programme on computational fluid dynamics and its applications	Nil	06/08/2019	06/08/2019	14	Nil
2019	Workshop on advancements in power electronics	Nil	19/08/2019	20/08/2019	11	Nil
2019	A Workshop on Recent Advances in Science Technology	Nil	24/08/2019	24/08/2019	26	Nil
2019	EMBEDED SYSTEMS FOR IOT APPLICATIONS	Nil	14/10/2019	18/10/2019	21	Nil
2019	Workshop on smart grid	Nil	13/12/2019	14/12/2019	11	Nil
2020	Faculty Development Program on ADVANCED COMMUNICATION AND SIGNAL PROCESSING	Nil	09/01/2020	11/01/2020	21	Nil
2020	A faculty development programme on STAAD PRO	Nil	27/01/2020	08/02/2020	16	Nil
2020	Three day FDP on Advanced Web Technologies	Nil	13/02/2020	15/02/2020	12	Nil
2019	A faculty development programme on ETABS	Nil	17/06/2019	22/06/2019	16	Nil

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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
FDP on SCILAB	3	29/04/2020	03/05/2020	5
Python 3.4.3 Training	1	18/04/2020	18/04/2020	1
Practical aspects of finite analysis using ABAQUS	2	18/04/2020	24/04/2020	7
FDP on SOFT COMPUTING TECHNIQUES AND ITS APPLICATIONS	5	27/01/2020	08/02/2020	13
FDP on AI( Artificial Intelligence),ML(Machine learning),DL(Deep learning)	1	20/01/2020	01/02/2020	13
Recent trends in sustainable design of structures	1	18/11/2019	30/11/2019	13
Product design engineering using fusion 360	1	19/08/2019	23/08/2019	5
Research Methodology	2	08/07/2019	12/07/2019	5
"Research Challenges and Opportunities Post COVID-19 (RECOP 2020)	5	04/05/2020	09/05/2020	6
Automotive structures design using catia	2	30/04/2020	02/05/2020	3
<a href="#">View File</a>				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
128	128	76	76

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<ul style="list-style-type: none"> <li>Yearly 12 casual leaves. Monthly one casual leave and two emergency / personal work permissions for an hour is allowed to avail.</li> <li>Transport facility is provided for faculty.</li> <li>EPF facility</li> <li>ESI facility</li> <li>Summer vacation leaves</li> <li>On Duty leave for attending FDPs, Seminars and workshops.</li> <li>Research facility is available for faculties pursuing Ph.D.</li> <li>Gym ,yoga facility</li> <li>Indoor and out door games are conducted once in a year.</li> </ul>	<ul style="list-style-type: none"> <li>Yearly 12 casual leaves. Monthly one casual leave and two emergency /personal work permissions for an hour is allowed to avail.</li> <li>Transport facility is provided for faculty.</li> <li>Summer vacation leaves</li> <li>EPF and ESI facility</li> <li>OD leave for attending training programs.</li> </ul>	<ul style="list-style-type: none"> <li>Merit scholar facility</li> <li>NGOs and private donors provide financial support to the merit and economically backward students.</li> <li>Library book bank for SC and ST classes</li> <li>College bus transport facility</li> <li>Indoor and out door games are conducted</li> </ul>

#### 6.4 – Financial Management and Resource Mobilization

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

The institution has internal and external audit mechanism. We have our own internal audit mechanism which conducts internal audits in an ongoing continuous process. In addition to the external auditors to verify and certify the entire financial transaction in the financial year a qualified staff member from our finance department is appointed as an internal auditor who do a thorough check and verifies all vouchers and transactions. Similarly, an external statutory audit is also carried out on an elaborate way once in a year and prepares audit statement duly signed by principal and chartered accountant is submitted to the management. Therefore, no major objections are found and minimize the minor errors. This system of internal and external financial audit is followed in the institute strictly. The affiliating university checks the internal and external audit yearly once.

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
vasudha foundation, AS Raju foundation, DNR Walker association, Smt K Naga venkata padmavathi	828000	Scholarships for students
<a href="#">View File</a>		

6.4.3 – Total corpus fund generated

3500000

#### 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	JNTUK-Kakinada	Yes	Principal
Administrative	Yes	JNTUK-Kakinada	Yes	Principal

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

The institute arranges class work inauguration function to the first year students every year on the occasion parents are invited the function and takes their valuable suggestion and their expectation for their ward's career. Mentor and class teachers identifies slow learners and counsel them and reports to the HOD. HOD contacts parents to inform their ward's performance. Feedback from parent collected and takes necessary actions for implementation.

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

- Skill development programs are conducted in the campus and encouraged them to excel in basic computer skills.
- Encourages them to attend technical workshops to make use latest machinery.
- Life skills

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

Institute initiates to go for permanent affiliation Planning to apply for UGC 12(B) and 2(F) Institute plans to appoint more Ph.D candidates. Encouraging the faculty to publish papers in reputed journals.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	Yes
d) NBA or any other quality audit	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	Awareness programme on safty in construction works	28/12/2019	28/12/2019	28/12/2019	66
2019	Lecture on PLC and AUTOMATION	20/12/2019	20/12/2019	20/12/2019	85
2020	Guest lecture on Road Safety	17/12/2019	17/12/2019	17/12/2019	120
2020	Various approaches to crack the GATE	10/01/2020	10/01/2020	10/01/2020	51

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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





	and disadvantages	contribute to local community					
2019	1	1	28/06/2019	3	CARRIER GUIDELINES IN X CLASS	ABOUT CAREER GUIDELINES FOR FURTHER STUDIES	55
2019	1	1	23/08/2019	3	AWARENESS ON GREEN ENVIRONMENT	ABOUT GREENARY AND PLANTATION	105
2019	1	1	09/09/2019	3	AWARENESS ON BIODIVERSITY	TO CREATE AWARENESS ON HOW TO CONSERVE FOREST, PLANTATION AND INCREASING GREENERY	38

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#### 7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Code of conduct handbook	12/06/2019	1. Responsibilities of Principal. 2. Obligation of Teachers. 3. Liability of Staff. 4. Disciplinary code and action plan for students. 5. Academic integrity encompasses honesty, responsibility and awareness relating to ethical standards for the conduct of Research Scholarship.

#### 7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
BLOOD DONATION CAMP	28/08/2019	28/08/2019	86
REPUBLIC DAY	26/01/2020	26/01/2020	72
NATIONAL SCIENCE DAY	28/02/2020	28/02/2020	50

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

1 Bicycles 2 Public transport 3 Pedestrian friendly roads 4 Plastic free campus 5 Paperless office 6 Green landscaping with trees and plants 7 Roof Top solar

## 7.2 – Best Practices

### 7.2.1 – Describe at least two institutional best practices

**BEST PRACTICE – I**

- Title of the Practice:** MENTORING SYSTEM FOR STUDENTS
- Objectives of the Practice** To minimize dropouts, improve performance and reduce stress of the students through personal counseling.
- The Context** Students undergo various problems of stress- personal, academic, physical, mental. Engineering education is a time bound course with time limitations to complete your work especially during the first two years. Students are new to professional college life and the demands of education create a lot of stress, especially to hostel students who are away from family for the first time. Also, in the economically weaker students and students from educationally weak background, this creates a lot of complex and do not perform well due to inhibitions. Statistics reveal increasing number of suicides and dropouts. Considering the student-teacher ratio in classrooms, it is impossible at times to give personal attention to students in class. One solution therefore is a „Mentor? who can form the bond with students in the true sense. Mentoring is required for students to achieve emotional stability and to promote clarity in thinking and decision making for overall progress.
- The Practice** The practice is that of creating an efficient mentor-ward system. Each teacher is assigned 15-20 students for the complete duration of their study. They meet at least once a week to discuss, clarify and primarily to share various problems which may be personal, domestic, academic, etc. The mentors encourage the students to participate in co-curricular and extra-curricular activities and sports. Their academic performance and other activities are all recorded. Students should inform their mentors on all their movements like their absence from college, sickness etc. The mentors also keep in touch with the parents on their attendance, test performance, fee payment, examinations etc. The teacher is equipped with all the necessary information about his/her wards on a file. The teacher involves local guardians and parents as well, whenever necessary for any advice or help. At the end of every month the mentors prepare a report of their mentees progress. The mentors also counsel the students in need of emotional problems. When the students have any problem in any department either with the staff or with work completion the mentors speak with the respective staff and sorts out the problem. Mentors take special care of slow learners, who are given advice on how to study, prepare a time table for study and clarify the doubts and also given notes to study. The mentors of every batch are advised by department admin and academic incharges. They will meet the mentors once a month and get the report of the progress and achievements of students and complaints of and by the students. These complaints are discussed with the Principal and necessary action taken to rectify the complaints.
- Evidence of Success** It is needless to say that a mentor gets the job satisfaction. Evidence of success of the practice includes better results in the examinations, more regular attendance, less drop outs, increased participation in co-curricular and extra-curricular activities, better discipline on campus and respectful relationship between teachers and students. The students are more relaxed and have a healthy relationship with the staffs.
- Problems Encountered and Resources Required** This practice requires well-committed teaching staff that has the desire to help students beyond teaching hours. There are no limitations or constraints faced during implementing the program.

**BEST PRACTICE – II**

- TITLE OF THE PRACTICE:** RENEWABLE ENERGY RESOURCES (ON-Grid Solar power plant)
- OBJECTIVES OF THE PRACTICE:**
  - To install solar power plant on the roof top and generate solar power.
  - To utilize the generated solar power for institutional power requirement.
  - To export the excess generated solar power to Grid.
  - To impart practical knowledge amongst students from this working station.
  - To augment long term

research in the field of solar power generation. • To become a role model amongst the public in green technologies

3. THE CONTEXT: Solar energy is a renewable source of energy as it can be used to produce electricity as long as the sun exists. Sunshine occurs naturally. As long as we are alive, we are always going to see the sun, which means it is infinite. This energy can be harnessed by installing solar panels that can reduce our dependence on other countries for consistent supply of coal to produce electricity. This makes it an attractive energy prospect for most countries that are looking to go completely green in the future. Although solar energy cannot be produced during night and cloudy days but it can be used again and again during day time. Solar energy from sun is consistent and constant power source and can be used to harness power even in remote locations.

Cuts back on electricity bill: One of the most interesting things about solar energy is that it can help you minimize your annoying utility bills. You can accomplish this by installing solar panels in your home. Solar energy takes up energy consuming activities like heating water and heating homes. Solar energy has the potential to save you up to 20 of your energy costs, even after financing costs are factored in. And with the ever rocketing of electricity costs, you could save up to \$60,000 in the next 30 years. Requires little maintenance: The cost of installing a solar panel can be high. But once it's up and running, you will enjoy the benefits for many years, while injecting just a small amount for its maintenance. If your energy needs change and you desire to add more panels, it would be a lot easier. Initial cost that is incurred once can be recovered in the long run that range from 10 years - 15 years. Apart from this, solar panels do not create any noise or release any toxic substances. Easy Installation: Solar panels are easy to install and does not require any wires, cords or power sources. Unlike wind and geothermal power stations which require them to be tied with drilling machines, solar panels does not require them and can be installed on the rooftops which means no new space is needed and each home or business user can generate their own electricity. Moreover, they can be installed in distributed fashion which means no large scale installations are needed. With the advancement in the technology and increase in the production, the cost of solar panels has come down slightly. Areas where cost of electricity is high, payback times can be even lower. Can Be Used in Remote Locations: Solar energy can be of great boon in areas which have no access to power cables. It Works great in remote locations where running power lines would be difficult or costly. Solar panels can set up to produce solar energy there as long as it receives the sunlight.

4. THE PRACTISE: The college installed roof top ON-Grid solar power station with 130 solar panels and two 50 KVA, three 20 KVA, one 12.5 KVA, one 27.5 KVA inverters. The total generating capacity is 150KW. 5. EVIDENCE OF SUCCESS In the year of 2019-20, 71,914 KWh power was generated from solar power plant. More than 46.6 of power requirement was utilized from the solar power plant. 6. PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED: Daily cleaning of panels is necessary to improve the efficient power generation .We have to take care of obstacles falling on the panels like tree shadows. Man power is required for daily maintenance.

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

<https://dnrcet.org/web/igac/best-practices/>

### 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

DNRCET is provided with a Technical Skill Development Institute. It is used to promote skill development entrepreneurship in and around the rural areas of DNRCET. It is also serving as an important task of providing high quality

skilled manpower as part of the Knowledge and Skills Mission of Government of A.P.As per some estimates, Andhra Pradesh will face an incremental Human resources requirement of approximately ten million skilled workers from 2012 till 2022, across the high-priority and emerging sectors. Thus the main objective of the program is to implement a structured and pragmatic solution to skill up skill the workforce in and around the rural areas of DNR CET and to increase employability, and promote entrepreneurship in sync with Industrial growth. • The institution has provided five labs for training, viz., • The computer based training lab (CBT) • Electrical home lab • Electronics home lab. • Electronics office lab • RAC Lab To facilitate the above, the target population has been divided into seven segments, viz.: Drop outs, Engineering skills, degree PG, in-trade services, agriculture allied, crafts, entrepreneurship development. Separate programmes will be designed for each segment. A hybrid model where t-SDI carries out its own programmes as well as value-adds collates the training being done by other departments is being adopted by the corporation to start with. Some unique best of class training programmes like Siemens Centers of Excellence Clusters, Capital Area Skilling, and Train the Trainer, etc. are part of the whole gamut of trainings to be offered at different levels. In addition to the practice training offered at these t-SDI's, it is considered that the course would be more effective and fruitful if relevant material related to the course is also provided to the participants for revision and ready-reference .Consequently, an attempt was made to create the requisite content by the experienced faculty and the trainers. T-SDI is staffed with best of talent in this sector will partner with leading training providers industry to carry out the training programmes. It aims to develop a best-in-class learning management system and placement and tracking mechanism. Ultimately, it aims to be among the best training provider Organizations in the state. • During the academic year 2019-20 almost 1028 students got training from this project. They are: • 685 DNR Polytechnic students • 58 Intermediate Vocational • 245 ITI Students • 40 Degree Students • This project has evidenced a big success with a huge number of students who got training from this project, enhanced their English communication skills, soft skills and their life skills, increased their self confidence, and learnt corporate etiquettes. • Recently a few students from DNR CET are hired by a reputed MNC, and some more students are waiting for offer letters.

Provide the weblink of the institution

<https://dnrcet.org/web/igac/institutional-distinctiveness/>

### **8.Future Plans of Actions for Next Academic Year**

To further intensify the Activities to reach every student of this College from the very First Year and securing a bright future and Career pathways for 100 of Students. 1. Online feedback system for students other stakeholders. 2. Workshop for students on skill development Programme 3. Introduction of standardized mechanism for reporting to IQAC 4. Clean Green Campus 5. Remedial Classes 6. Strong Alumni Association 7. To Organize various short term courses, workshops, seminars from experts under various Departments. 8. To Organize State / National level Conferences, Paper Presentations project competition.