



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution	DADI INSTITUTE OF ENGINEERING AND TECHNOLOGY
Name of the head of the Institution	Dr. Ch.S. Naga Prasad
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	09247178372
Mobile no.	9963993229
Registered Email	principal@diet.edu.in
Alternate Email	iqac@diet.edu.in
Address	NH-5, Anakapalle, Visakhapatnam- 531002
City/Town	ANAKAPALLE
State/UT	Andhra Pradesh
Pincode	531002

2. Institutional Status					
Affiliated / Constituent		Affiliated			
Type of Institution		Co-education			
Location		Rural			
Financial Status		Self financed			
Name of the IQAC co-ordinator/Director		Dr. K. S. Eswara Rao			
Phone no/Alternate Phone no.		09247178372			
Mobile no.		9963994042			
Registered Email		viceprincipal@diet.edu.in			
Alternate Email		iqac@diet.edu.in			
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)		http://diet.edu.in/cmoon_pdf/Submission_of_AQAR_for_th_year_2018-19.pdf			
4. Whether Academic Calendar prepared during the year		Yes			
if yes,whether it is uploaded in the institutional website: Weblink :		https://diet.edu.in/cmoon_pdf/Institutional_Academiic_Calendar_2019-20-pdf1.pdf			
5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B+	2.53	2017	20-Sep-2017	19-Sep-2022
6. Date of Establishment of IQAC			07-Aug-2012		
7. Internal Quality Assurance System					
Quality initiatives by IQAC during the year for promoting quality culture					
Item /Title of the quality initiative by IQAC		Date & Duration		Number of participants/ beneficiaries	

Academic Feedback Second Semester (First Year B.Tech)	17-Feb-2020 6	164
Academic Feedback First Semester (First Year B.Tech)	09-Sep-2019 6	164
Mathematics Day	21-Dec-2019 1	150
Academic Feedback Odd Semester (2,3,4 B.Tech Classes)	24-Jun-2019 6	740
Academic Feedback Even Semester (2,3,4 B.Tech Classes)	02-Dec-2019 6	723
Academic Audit Odd Semester	30-Dec-2019 6	15
Academic Audit Even Semester	09-Sep-2019 6	15
Academic & Administrative Audit	28-Dec-2020 4	15
Collaborative activities for research	12-Jul-2019 2	150
Guest lecture on Present research trends	09-Sep-2019 1	150
View File		

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
Department of CSE	Design and development of the smart stator with help of safety sensors	B-Technologies, Hyderabad	2019 735	72000
View File				

9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

4

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional

Yes

website																			
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)																			
Contributions of IQAC : 20192020 • Conducted Academic Audit for First Semester and Semester • Conducted Academic and Administrative Audit (AAA) • Collected feedback from the stakeholders																			
View File																			
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																			
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14. Whether AQAR was placed before statutory body ?	Yes																		
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15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
Date of Visit	03-Sep-2017
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2020
Date of Submission	10-Feb-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> EZ School ECap Admission Module, Academic Module, Examination Module, Attendance Module, HRM Module, Placement Module, Library Management module, Pay roll module, Feedback module, Certificates module etc </p> <p> Admission Module: Admissions are taken place as per CET convener Quota. Then admit the students in Management Quota. Constitute admission Committee just before the commencement of the institute. The Committee will look after the enquiries for the admissions in different branches and recorded. After Convener quota through EAMCET for B.Tech courses, ICET for MBA course and PG CET for M.Tech Courses admissions shall be taken phase wise and then filled the vacancies in Management Quota in merit basis and categorized. The Committee has prepared categorized phase wise lists for admissions and send to the office and departments. </p> <p> Academic Module: After admissions are closed, prepare the registered Numbers(PIN Nos) on the alphabetical basis and distributed the lists branch wise through EZ software. Academic Coordinators have prepared nominal rolls and class wise time tables. Academic class work will be commencing as per the academic calendar notification issued by the affiliated University i.e JNTUK. </p> <p> Examination module: According to Affiliating University schedules ,generate every thing by our software management, conducting theory and practical </p>

examinations as per the attendance norms. Examinations reforms can be apply regularly as per the guidelines of the University. Examination Committee is constituted with members from each department shall be look after examination related matter for smooth functioning of the examinations and projects. Attendance Module: Depending on daily attendance, EZ software is consolidate the attendance and prepared the monthly attendance statements of all the students. Upload the attendance to University and social welfare departments for allotting scholarships. Every day absentees of the students will be informed to their parents after first hour. HRM Module: HR Executive has prepared the requirement of staff regularly , collecting resumes, conducting interviews by calling the qualified persons, selection will be taken by subject expert committee. Preparation of leaves list, loss of pays, P.F and ESI. Library Module: It has SOUL software to manage purchasing required text books and reference books, issue the books to staff and students through digital barcode. E Library is provided for video lectures through NPTEL, DELNET, JGATE etc. Most of the students are benefitted for getting certificate courses. Pay roll module: Salaries, incentives to the staff has been paid digitally. Directly credited into staff accounts on the first day of every month. and also purchases of every requirement through net banking only. Placement Module: Every year Campus Recruitment training is conducting for final year students organizing by Training and placement Cell of our college and external training agencies like COIGN and FACE etc for train the students in respect of soft skills and specific company technical skills.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

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

- Since the institution is affiliated to JNTUK, Kakinada, the institute has adopted the curriculum designed and developed by JNTUK, Kakinada. • During the

academic year 2019-20 the students of the institute had undergone the syllabus framed under R 16 & R 19 regulations of the affiliating University. • In order to enrich the curriculum and to empower the student's employability skills, life skills etc., the relevant add-on and value-added courses have been incorporated to their curriculum. • To improve the problem-solving skills tutorial classes also have been executed. • ICT technologies, blended and flipped mode of teaching techniques have been adopted in addition to regular classroom teaching. • Project based and experiential learning has also been adopted and executed. • Course files, timetables, assignments, lecture plan and lecture notes, previous question papers, question bank, E-learning materials have been documented and shared to the students.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employability/entrepreneurship	Skill Development
Analog Communication (NPTEL)	Certificate Course	29/07/2019	84	Employability	Yes
Strength of Materials (NPTEL)	Certificate Course	29/07/2019	84	Employability	Yes
Digital Design (NPTEL)	Certificate Course	29/07/2019	84	Employability	Yes
Problem Solving through Programming in C - Online (NPTEL)	Certificate Course	29/07/2019	84	Employability	Yes
Problem Solving through Programming in C - Online (NPTEL)	Certificate Course	29/07/2019	84	Employability	Yes
Global Navigation Satellite Systems And Applications (NPTEL)	Certificate Course	29/07/2019	84	Employability	Yes
Interpersonal Skills (NPTEL)	Certificate Course	29/07/2019	84	Employability	Yes
Problem Solving through Programming in C -	Certificate Course	29/07/2019	84	Employability	Yes

Online (NPTEL)					
Problem Solving through Programming in C - Online (NPTEL)	Certificate Course	29/07/2019	84	Employability	Yes
Design of Reinforced Concrete Structures - Online (NPTEL)	Certificate Course	29/07/2019	84	Employability	Yes
Bioinorganic Chemistry - Online (NPTEL)	Certificate Course	29/07/2019	84	Employability	Yes
Management Accounting - Online (NPTEL)	Certificate Course	29/07/2019	84	Employability	Yes
Strength of Materials - Online (NPTEL)	Certificate Course	29/07/2019	84	Employability	Yes
Strength of Materials - Online (NPTEL)	Certificate Course	29/07/2019	84	Employability	Yes

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
Nil	-	Nil
No file uploaded.		

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	CIVIL Engineering	05/08/2019
BTech	CIVIL Engineering	10/06/2019
BTech	CSE	05/08/2019
BTech	CSE	10/06/2019
BTech	ECE	05/08/2019
BTech	ECE	10/06/2019
BTech	EEE	05/08/2019

BTech	EEE	10/06/2019
Mtech	PID, SSP, CSE	16/09/2019
Mtech	PID, SSP, CSE	05/08/2019
MBA	MBA (HR & Finance)	16/09/2019
MBA	MBA (HR & Finance)	08/07/2019

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

	Certificate	Diploma Course
Number of Students	121	Nil

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Campus Recruitment Training	25/11/2019	431
Bridge Course	20/09/2019	160
Brain Storming Session for EEE Inductees	27/08/2019	93
Music Classes	17/06/2020	157
Classical Dance Training	12/06/2020	78
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	CIVIL	15
BTech	EEE	20
BTech	CSE	46
BTech	ECE	11
MBA	HR/Finance	35
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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
<ul style="list-style-type: none"> Feedback is obtained from all the stakeholders. Collected feedback from students on quality parameters related to curriculum, teaching, learning and

evaluation processes. • The feedback collected from various stakeholders has been compiled and analyzed for further processing. • The consolidated action taken reports (ATR) were sent to the relevant authorities for effective design and implementation of curriculum. • The Institution conducts a systematic, Sequential, Fool-proof and goal-driven feedback Mechanism. Feedbacks are collected from the students and Teachers at the end of every Semester and from parents and alumni at the end of every academic year. • The feedback forms were collected and analyzed by a team of coordinators nominated and designated by the Principal. Actions taken based on the analysis of the Feedback is followed up by the Departmental Heads and the Vice Principal. • All departments conduct parent teachers meet and information about attendance position and academic performance of students are shared with them. • All the Departments have taken remedial measures for the slow learners based on the feedback of Alumni. • In the Department of CSE, a Courses entitled "python programming "and "Internet of things was introduced based on the Alumni feedback. • In the department of BSH, based on the statistical report of the Feedback 80 of the parents were satisfied with the facilities, learning resources, guidance of staff members and about 20 of the parents requested to conduct more campus drives and to introduce a diploma courses to develop entrepreneur skill and language skill • Feedback is also collected on institutional resources and services such as class room, laboratory and computer center facilities and also on other supporting facilities and services like library, sports and games. A consolidated result was forwarded to the appropriate departments for necessary improvements

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	CIVIL	120	96	9
BTech	CSE	180	389	121
BTech	ECE	180	345	38
BTech	EEE	120	285	12
Mtech	PID	36	42	12
Mtech	SSP	36	23	2
Mtech	CSE	24	42	14
MBA	MBA	60	126	36

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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	1213	111	117	20	20

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
137	128	6	16	Nil	10

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

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

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

Yes. Students mentoring system is available in our institute. 15 students are assigned to a teacher counsellor/mentor for providing career guidance and counselling. Mentor monitors the students in the following aspects 1. Student general information 2. Monthly consolidated attendance 3. Internal examinations and evaluation 4. University examinations 5. Bi-weekly report of academics, 6. Behaviour and extracurricular activities 7. Academic development 8. Personality development. 9. Indiscipline activities if any 10. Details of Parent's visit 11. Conducting parents meet 12. Feedback from parents 13. Mentor overall report 14. CRT 15. Suggestions of the mentor for further development

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1324	137	1:10

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
137	122	15	15	20

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
2019	Dr. K. Sujatha	Professor	Best teacher award from International Science organization
2019	Dr. L. Prasanna Kumar	Professor	Best Convenor for Organizing One Week National level FDP on "Outcome based Education"
2019	Mr A Krishna Nag	Assistant Professor	Nominated as Student Activity Chair for IEEE Vizag Bay Sub Section
2020	Mr A Krishna Nag	Assistant Professor	Nominated as the first Student Activity Chair for IEEE Vizag Bay

			Section
2020	Ms P Jagruthi	Assistant Professor	Secured First Prize in National Level Design Synthesis Competition at RETRECSE 2020 organized by EICT Academy, NIT - Patna
2020	Mrs K ALfoni Jose	Assistant Professor	Received appreciation certificate from Texas Instruments for mentoring NPTEL course on Embedded System Design
2020	Ms P Jagruthi	Assistant Professor	Gesture Control Robot Prototype Guided by her is Shortlisted in National Innovation Contest 2020 - IIC - MoE's Innovation Cell, AICTE, New Delhi
2020	Mr Ch Ravi Kumar	Assistant Professor	Smart Helmet Prototype Guided by him is Shortlisted in National Innovation Contest 2020 - IIC - MoE's Innovation Cell, AICTE, New Delhi
2020	Mr D R Ch Nookesh	Assistant Professor	Agriculture Field Supervision from remote location Prototype Guided by him is Shortlisted for Vishwakarma Awards 2020
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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	I/I	25/01/2020	21/02/2020
BTech	01	I/II	20/07/2020	18/09/2020
BTech	01	II/I	02/11/2019	12/12/2019

BTech	01	II/II	18/04/2020	26/05/2020
BTech	01	III/I	02/11/2019	12/12/2019
BTech	01	III/II	06/04/2020	21/05/2020
BTech	01	IV/I	02/11/2019	12/12/2019
BTech	01	IV/II	06/04/2020	21/05/2020
Mtech	02	I/I	15/02/2020	25/03/2020
Mtech	02	I/II	20/07/2020	31/08/2020

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

1. Conduct of two midterm examinations and one semester end examination as per the JNTU Kakinada Calendar 2. The two midterm examinations are conducted by the concerned department and paper is set by the internal faculty. The evaluation is done by the concerned subject teacher. As per R19 Evaluation - Distribution and Weightage of Marks are as follows. B.Tech. Theory : 100 Marks Internal : 25 Marks (Descriptive 10 Online 10Assignment 5) for both Mid I Mid II Final Internal Marks (Best Mid marks 0.8 Other Mid marks 0.2) External : 75 Marks Practical: 50 Marks Internal : 20 Marks (Day to Day - 5 M Record -5M Internal Test - 10 M) External: 30 Marks M.Tech. Theory : 100 Marks Internal : 25 Marks for both Mid I Mid II Final Internal Marks Average of marks secured in two mid examinations External : 75 Marks Practical: 100 Marks Internal : 25 Marks (Day to Day - 5 M Record -5M Internal Test - 15M) External: 75 Marks MBA Theory : 100 Marks Internal : 25 Marks [Seminar 10 Marks (5 marks Report5 Marks Presentation) 15 Marks Mid Term Exam] for both Mid I Mid II Final Internal Marks Average of marks secured in two mid examinations External : 75 Marks Practical: 50 Marks Internal : 20 Marks (Day to Day - 5 M Record -5M Internal Test - 10M) External: 30 Marks 3. For mid examination, the question bank is prepared by the concerned subject faculty member with 30 questions and the same is used for paper setting. 4. The mid examination results are published immediately after the examination. 5. The semester end examinations are conducted by Controller of examinations of the University. The University has been adopting grading system for all courses. 6. The double valuation system is adopted for all PG Courses as directed by JNTUK. 7. There is a provision of the recounting, revaluation and challenged revaluation of answer script after publication of results by University.

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

Academic plans for the academic year 2019-2020 is here with Attached in annexure 1)JNTUK Academic Calendars JNTU Kakinada, which is affiliating University releases the academic calendar for every academic year including instructional period and examination schedules for both odd and even semester. 2) IQAC Academic Plan Institute Internal Quality assurance cell has prepared the academic plan at the beginning of the academic year 2019-2020 based on the curriculum. It includes Co-curricular and Extra-curricular activities related to latest and updated information to improve the quality during the semester break and other leisure periods. The activities comprises of communication skills, soft skills and technical skills from first year onwards. 3) Institutional Academic calendar At the beginning of the academic year, Institutional academic calendar has been prepared by using the JNTUK academic calendar and IQAC academic plan by adding the extension activities without any correlation and disturbances to the Academic plans of the academic year 2019-2020.It is herewith Attached in annexure

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://diet.edu.in/cmoon_pdf/2_6_1.pdf

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	6	5	84
42	Mtech	PID	5	1	20
45	Mtech	SSP	4	1	25
00	MBA	MBA	35	35	100
01	BTech	CIVIL	64	50	78.12
04	BTech	ECE	68	59	86
02	BTech	EEE	70	56	79.24
05	BTech	CSE	115	94	82

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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://diet.edu.in/cmoon_pdf/2_7_1.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
Total	1277	Nil	1.61	1.04
Students Research Projects (Other than compulsory by the University)	182	Dadi Institute of Engineering Technology	0.25	0.25
Projects sponsored by the University	365	Dadi Institute of Engineering Technology	0.64	0.64
Minor Projects	730	B.Technologies, Hyderabad	0.72	0.15

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3.2 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
six days on Python Programming	CSE	03/02/2020
Six days on Revit Architecture	CIVIL	26/08/2019
two days on Internet of Things	ECE	04/03/2020
Seven days on Associate Cloud Architect	CSE	19/08/2019
Two days on Solar Ambassador	EEE	01/10/2019
Six day on PCB design	ECE	16/09/2019
Two day on Introduction of Robotics	RD Cell	12/07/2019
Entrepreneurship development lecture-2k20	EEE ISTE	20/02/2020
Entrepreneur ship Lectures series-3	EEE EDC Cell	05/05/2020
Entrepreneur ship Lectures series-2	EEE EDC Cel	23/05/2020
Entrepreneur ship Lectures series-1	EEE EDC Cell	21/05/2020
Faraday Memorial Lecture -2019	EEE IEEE	22/09/2019
PWSIM tool-in Power Electronics and Power Systems	EEE	01/06/2020

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
Best Researcher	Dr. Ch. Nageswara Rao	Institute of Scholars	05/06/2019	Academics
Best Researcher	Dr. K. Sujatha	Institute of Scholars	05/06/2019	Academics
Best Teacher Award	Dr. K. Sujatha	Institute of Scholars	05/06/2019	Academics
Best Principal	Dr. Ch. S. Naga Prasad	Institute of Scholars	25/07/2019	Academics

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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
Institute Innovation Council	DIET Institute Innovation	IIC, MHRD Initiative	--	-	24/10/2019

Council

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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
3	5	6

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

Name of the Department	Number of PhD's Awarded
ECE	2

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)
National	CSE	4	Nill
National	ECE	3	Nill
International	CSE	18	Nill
International	ECE	9	Nill
International	EEE	12	Nill
International	CIVIL	11	Nill
International	HBS	8	Nill
International	MBA	6	Nill

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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
CSE	2

[View File](#)

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

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Classification Of Caesarian Data Using Machine Learning Models	Prasanna Kumar Lakineni	European Journal of Molecular Clinical Medicine	2020	Nill	Dadi Institute of Engineering Technology	Nill
Opinion Mining using Machine Learning	Prasanna Kumar Lakineni	Mukt Shabd Journal - Indexed in UGC	2020	Nill	Dadi Institute of Engineering Technology	Nill

Approaches		Journal				
Person Tracking and Counting System Using Motion Vector Analysis for Crowd Steering	Dr. K. Sujatha	Lecture Notes on Data Engineering and Communications Technologies book series (LNDECT, volume 28)	2019	Nil	Dadi Institute of Engineering Technology	Nil
A cloud based smart car parking system based on internet of things technologies	Komali kalla	Mukt shabd journal	2020	Nil	Dadi Institute of Engineering Technology	Nil
IOT BASED GARBAGE MONITORING SYSTEM	Ch Dinesh	BULLET IN MONUMENTAL JOURNAL	2020	Nil	Dadi Institute of Engineering Technology	Nil
Secure Routing in MANETS and IoT	Dr. M. Srinivasa Rao	Science, Technology And Development Journal	2019	Nil	Dadi Institute of Engineering Technology	Nil
BLOCKCHAIN APPROACH TO CYBER SECURITY VULNERABILITIES ATTACKS AND POTENTIAL COUNTERMEASURES	Dr. M. Srinivasa Rao	International Journal of Security and Its Applications (IJSIA)	2020	Nil	Dadi Institute of Engineering Technology	Nil

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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
A systematic study of cobalt-zinc	T.R.K. Pydi Raju	Journal of Alloys and Compounds	2019	1	21	Dadi Institute of Engineering

ferrite nanoparticles for self-regulated magnetic hyperthermia		Volume 794, 25 July 2019, Pages 60-67				Technology
A Systemic Study Of Cobalt-Zinc Ferrite Nanoparticles For Self Regulated Magnetic Hyperthermia	P. Appa Rao	Journal Of Alloys And Compounds	2019	1	21	Dadi Institute of Engineering Technology
View File						

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	4	74	2	2
Presented papers	2	Nil	4	Nil
Resource persons	1	Nil	1	Nil
View File				

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
World Environment day celebration on 5th June 2019	NSS	34	96
World Music Day celebrations on 21st June 2019	Literary and Cultural Club	12	94
Rainwater Harvesting Campaign on 25th June 2019	NSS	16	86
Rainwater conservation Rally on 7th July 2019	NSS	38	124
Independence day celebrations on 15th Aug 2019	NSS	100	456
Internship programme on 25th	Training and Placement Cell	23	94

Aug 2019			
Ganesh Designing Competition on 30th Aug 2019	IEEE Branch, DIET	21	102
Ecofriendly innovative Ganesh on 3rd Sept 2019	Literary and Cultural Club	15	26
Teachers day celebrations on 5th Sept 2019	Literary and Cultural Club	95	346
Freshers day celebrations	NSS and Literary and Cultural Club	76	436
View File			

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
President Nominations, NYCI	District Wing President	National Youth council of India	1
Council Member Nominations, NYCI	District Council Member	National Youth council of India	1
IEEE SN Nominations	Student Network Member	IEEE Vizag Bay Section	2
IEEE SSR Nominations	Jt Section Student Representative	IEEE Vizag Bay Section	1
IEEE Student Section Congress	Lead Designer	IEEE Hyd Section	1
Divisional youth Festival 2019	Extempore	Govt of Andhra Pradesh	1
Divisional youth Festival 2019	Mimicry	Govt of Andhra Pradesh	1
Divisional youth Festival 2019	Dance	Govt of Andhra Pradesh	2
Divisional youth Festival 2019	Singing	Govt of Andhra Pradesh	1
Divisional youth Festival 2019	Fancy Dress	Govt of Andhra Pradesh	1
View File			

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
I Stand for the Nation	Brain O vision	Support to Cycle Rally on 14-2-2020	20	86

Skill events	APSSDC	Skill Competition on 27th Jan 2020	12	300
Voter enrollment Programme	Mandal Development Office, Anakapalle	National Voters Day on 25th Jan 2020	15	316
Govt employees Traing Scheme	MBA Department and ITI Principals	Post employment Training on 29th Nov 2019 ITI Principals	3	26
IEEE Extreme 13.0	IEEE Head Quarters , USA	Awareness on IEEE extreme 13.0 test(24 hrs)	4	189
Industry-academia relation	APITA	Industry, academia, Training partners and Stakeholders meet on 31st October 2019	15	93
Gender Issue	Fitness coach Cancer awareness centre	Women empowerment on 8th March 2020	34	213
Health awareness	Govt Hospital, Anakapalle	Aids awareness Rally on 1st Dec 2019	8	58
View File				

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
Two day Workshop on introduction to Robotics150	18	e-Yantra IIT Mumbai team	2
View File			

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
Technical Support	Industry Interface	NSK E Tech Consultancy and Construc tions	08/05/2019	31/12/2020	Students

Technical Support	Industry Interface	KBR Structures	10/07/2019	31/12/2020	Students
Project work	Industry Interface	B.Gechnologies	13/06/2019	31/07/2020	CSE faculty and Project work students
Research Facility	IPR Support	National Research Development Corporation	01/06/2019	31/12/2020	Faculty & students
View File					

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
National Research Development Corporation	13/06/2019	IPR Support and Funding	24
NIT Warangal ICT Academy	10/06/2019	Train Faculty in Emerging Technologies	200
Eswarsai Consultants	10/07/2019	Civil Consultancy Works	12
KBR Structures	10/07/2019	Civil Consultancy Works	13
NSK E Tech Consultancy and Constructions Geafix Tally	08/05/2019	Design and Drawings	12
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
20	18.37

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Laboratories	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Classrooms with LCD facilities	Existing
Number of important equipments	Newly Added

purchased (Greater than 1-0 lakh) during the current year	
Others	Newly Added
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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
SOUL (Software for University Libraries)	Fully	2.0	2009

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	21875	5541970	418	140030	22293	5682000
Reference Books	3501	840649	286	96098	3787	936747
e-Books	840	71515	246	20910	1086	92425
Journals	191	1050122	57	119000	248	1169122
e-Journals	14358	3182122	4070	72216	18428	3254338
Digital Database	1	87570	1	13570	2	101140
CD & Video	15102	Nil	973	Nil	16075	Nil
Library Automation	Nil	20000	Nil	Nil	Nil	20000
Weeding (hard & soft)	320	90882	48	13745	368	104627

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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
Dr. K.Sujatha	Software Design	Electrical Signals	20/11/2019
Dr. L.Prasanna Kumar	Programming Design	Programming	12/02/2020

[View File](#)

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	425	10	55	3	1	20	6	55	0
Added	100	0	5	1	0	0	0	5	0
Total	525	10	60	4	1	20	6	60	0

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

60 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
Institutional Video Lectures in E-Library	https://youtu.be/a5dXVWI0-fI
Institutional Video lectures in e-Library	https://www.youtube.com/channel/UCcNm8gbXyIiYG_dfwDm-RRBw?view_as=subscriber

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
75	80	185	187

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)

Policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms 2019-20. The college ensures optimal allocation and utilisation of the available financial resources for maintenance and upkeep of different facilities by holding monthly meetings of various functional committees constituted for this purpose and using the grants received by the college as per the requirements in the interest of students. Maintaining the campus with plastic free environment, rainwater harvesting with Groundwater recharge pit arrangement. Utilizing the solar energy for the street lightening in the campus. 1. Laboratories: Record of stock account is maintained by lab technicians, Lab In charge and supervised by HODs of the concerned departments. All the laboratories are maintained by the calibration repairing and maintenance of sophisticated lab equipment are done by the technicians of related owner enterprises and always maintain the annual maintenance policy regularly. 2. Library: a). The requirement and list of books is taken from the concerned departments and HODs are involved in the process. The finalised list of required books is duly approved and signed by the Principal. b). Suggestion box is installed inside the reading room to take users feedback. Their continuous feedback helps a lot in introducing new ideas regarding library enrichment. c). To ensure return of books, 'no dues' from the library is mandatory for students before appearing in exam. d). Other issues such as weeding out of old titles, schedule of issue/ return of books etc. are chalked

out / resolved by the library committee. e). SOUL (Software for University Libraries) fully automated software with version 2.0 is using since inception of the Institute 2006 in Library and also maintain the digital Library by providing NPTEL lectures , DELNET , J Gate etc., f) The maintenance of the reading room and stock verification of library books are done regularly by library staff. 3. Sports: Regarding the maintenance of sports equipment the college has deputed Sports In charge. The students of our Institute have participated in Volleyball, Cricket, Kabaddi during the session 2019-20 in inter-collegiate championship. And also Inter Collegiate Volley ball selections have been conducted in our Institute using our play ground. During 2019-20. Intra Mural Sports Competitions are organised in the campus. 4. Classrooms and computers: The ambiance of all class Rooms have been monitored by Respective class teachers under the supervision of HOD. The Hygiene environment of the class room is maintained by supportive staff. The electrician will continuously monitor class room appliances (Fans, lights and switch boards) , class room Notice boards (Time tables, Roll list, exam notifications and circular related to events) Regularly updated by Lab technicians. Every Department has a Deputy HOD who will periodically check the condition of class room amenities like benches, chairs, black boards, fans, lights and LCDs.. Computers and software in the laboratories are maintained by system/network administrators in each department. • Major problems and repairs will be attended in consultation with the suppliers following the central purchase procedure

https://diat.edu.in/cmoon_pdf/4_4_2.pdf

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Sarada Educational Trust Sponsorship	321	4479900
Financial Support from Other Sources			
a) National	NIL	Nil	0
b) International	IEEE Headquarters, USA [Annual Rebate for IEEE Activities]	102	21675

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

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Newspaper Reading	17/06/2019	249	EEE Department
Brain Storming Session for EEE Inductees	28/08/2019	93	EEE Department
Soft Skills - Classroom Activity -Extempore	12/11/2019	93	DIET EEE SPARKS Club
Campus	16/12/2019	178	COIGN consultancy

Recruitment Training Classes			
Campus Recruitment Training Classes	16/12/2019	186	FACE consultancy
Cambridge english Language class asses	08/01/2020	128	English Dept
Personality Development Programme	26/08/2019	300	Sri Satish Valiveti
Technical Seminars	03/03/2020	91	EEE Department
SPARKS Club Stall Activities	03/01/2020	185	DIET EEE SPARKS Club
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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	GATE and PG CET	317	360	1	19
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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
2	2	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
2	280	19	25	284	50
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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	2	B.Tech	ECE	JNTUK Affiliated	M.Tech

				colleges	
2020	1	B.Tech	CIVIL	JNTUK Affiliated colleges	M.Tech
2020	5	B.Tech	EEE	JNTUK Affiliated colleges	M.Tech
2020	11	B.Tech	CSE	JNTUK Affiliated colleges	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
GATE	Nil
No file uploaded.	

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

Activity	Level	Number of Participants
Treasure Hunt	Institutional Level	421
Pot Painting	Institutional Level	31
Kite Flying	Institutional Level	57
Rangoli Competition	Institutional Level	126
Role Play	Institutional Level	79
Food Carving	Institutional Level	27
Craft making	Institutional Level	32
Dance Competition	Institutional Level	337
Singing Competition	Institutional Level	56
Volley Ball competition	Inter Collegiate	8
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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
2019	93kg Power Lifting	National	1	Nil	18U45A0240	M Lalite swara Rao
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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)

Contribution of IQAC in enhancing awareness about Student Support Services. IQAC has coordinated with all the academic and administrative committees and Director, Physical Education to prepare the academic calendar for student

support system. They organized meeting with placement officer and the coordinators of the constituent departments and provided guidance for conducting training programmes to the students. Academic Committee has also conducted a periodic meeting with members of supporting facilities and gave suggestions for improvements. As a result of IQAC monitoring, the placement officer has conducted job melas inviting prominent corporate and industries.

Efforts made by the institution for tracking the progression. Academic Committee and IQAC have conducted review meetings in which the student progression is discussed and initiatives are taken for quality education. At department level the departmental committee has a structured system for tracking and monitoring the student progression based on examination results. The Principal review the student progression with the Heads of the department

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Registered at Institute Level.

5.4.2 – No. of enrolled Alumni:

1536

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

DADI INSTITUTE OF ENGINEERING AND TECHNOLOGY has organized the Alumni Meet on 29.02.20 (Saturday) in Seminar Hall 1. The alumni meet is conducted every year in order to reconnect with the Alumni and celebrate their success and various achievements. The Alumni started arriving in college by 10.00 a.m. and they were received by the registration team and were taken on a campus tour where they revisited the familiar place where they had studied and were shown the various developments that had taken place since then. The Alumni Meet started with an Prayer song by S.Chandrakala 3rd ECE. The hosts of the event, Mr.K.Joginaidu , convener invited the dignitaries to occupy the dais. Around 130 Alumni attended the meet and gave their valuable feedback and suggestions for the betterment of Institute and Alumni Association. the Alumni students of batches, CSE ECE MBA EEE, CIVI. They addressed the gathering by firstly thanking the management for inviting them. All alumni students expressed their happiness in meeting in persons, his batch mates on the occasion all of whom are well connected via Whatsapp and social media. Students was very happy to note that the cultural fest, "VIBRANT 2020" which was started during their time at DIET still continues Chairman Sri Dadi Ratnakar garu, welcomed all the alumni for responding to the invitation from college and being present for the alumni meet inspite of their busy schedule. He then proceeded and highlighted the various milestones reached in the past years. The Alumni meet at the DIET Campus was a great success in its prime motive of Connecting and Networking the alumni and the present management, faculty and some of the final years.

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)

Vision: To evolve into a Premier Technical Institution with Value based Education to nurture Competitive Technologists to Build New World Mission: To promote Personality Development, Academic Excellence, Creative Technology,

Disciplined Career, Human Service, Ethical Values and Indian Culture for the uplift of the Global Society. Decentralisation :Organisational chart The Organisational Structure is as follows. 1. The Governing Body is the top most body of the institute. It will govern the entire activities of the institute 2. The Governing Body is Headed by Chairman 3. The Academic and Administrative Head is the Principal 4. The Principal is assisted by Vice Principal 5. The Administration has been organised into Departments, Functional Units. Each Department is headed by Head of the Department. Each Functional Unit has a committee of Members and is headed by Convenor. 6. The College Office is headed by Administrative Officer 7. The Library is headed by Librarian 8. The Physical Director is assigned with all Sports and Games related activities. 9. The important Functional Convenors are Academics Convenor, Research and Development Convenor, Officer In-Charge Examinations, Training and Placement Officer. 10. The Quality of the institute is monitored by IQAC Convenor. Participative Management In order to achieve the participative management, the institute has come up with different bodies comprising of the management, principal, convenors/co-ordinators at the institute level, HODs, Functional committee co-ordinators, students, alumni, parents, employers and other stakeholders. The bodies namely: Governing Body College Academic Committee RD Committee IQAC Committee Training and Placement committee Administrative Committee Academic Review Committee Food and Canteen Committee Examinations Committee Grievances committee Internal Complaints Committee Discipline Committee Knowledge Information and Media Committee Anti Ragging Committee Admissions Committee Literary and Cultural Committee National Social Services Committee Sports Committee Transport Committee The above committees at department level and at institute level conducts meetings monthly, quarterly, and yearly to discuss about the following issues. Curriculum and Research Development Institution Organises workshops at department level involving experts from industry/research organisations. The Staff Theory and Lab Readiness Programme (STLRP) has been prepared before the commencement of the classes and Staff Theory and Lab Completion Programme at the closing of the semester by preparation of workloads, Time Tables, Course files, Mentor books at PG and UG levels. The feedback collected from students, parents and alumni for curriculum and suggestions/ATR was placed in Academic Committee Meetings. Employ ability and value based education. Choice Based credit system/Elective Courses as directed by the affiliating university. Curriculum enrichment by incorporating Value added and add-on courses. Remedial and skill oriented sessions to meet the requirement of slow learners and active learners respectively. Organising of seminars/workshops / training programmes / Faculty Development Programmes. Sponsoring faculty for conferences /seminars/workshops. Establishment of research forum with Doctorates. Encouraging faculty towards getting projects. Publication of two or more research papers in journals. Inviting visiting fellows. Industry Interaction / Collaboration: The Institution is having interaction and collaboration with reputed research organisations, industries and institutions. It has 15 MOUs with these organisations of Professional Bodies until now those are IEEE, ISTE, IETE,

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	The Institution has a well organized and a transparent admission mechanism. Admission into various courses is carried out by the Admission Committee.

All the admissions are completely on merit basis in accordance with the rank obtained in the Common Entrance Tests like [EAMCET, ICET, ECET, PG CET] or marks obtained in qualifying examinations in case they are applying for direct admissions which needs to follow the rules of reservations as specified by Government of Andhra Pradesh. The entire admission process is carried out online and a computerized maintenance of all the records is being done. The candidates seeking admission are required to submit applications either online or offline. Based on the options given by the candidates, admission process will take place through CET counseling for qualified candidates and for Non-qualified candidates the merit obtained in their qualifying exam is considered. In order to support the students in selecting the course, admission counseling is arranged during the scheduled dates and prior communication is given to the registered candidates. As a result, students belonging to O.C., S.C., S.T., B.C and other minority categories will get a justified admission as per the branch chosen. Moreover, Girl students constitute more than 50 percent in all the departments.

Industry Interaction / Collaboration

The Institution has collaborated with industries and research organizations like NRDC. Implementing AICTE initiatives such as IIC, NISP It has 15 MOUs with reputed organizations. Organizing Workshops, FDPs, Seminars, Webinars in association with Industries, Academic Institutions

Human Resource Management

Faculty and Staff recruitment of the institution is conducted as per the AICTE and university guidelines. The institute has implemented Self appraisal procedure to promote its faculty. Institution has recruited Assistant Professors, Associate Professors and Professors during this year by constituting a panel comprising of Senior faculty, subject experts, Principal and external Professors drawn from State universities. Institution also recruited staff for the vacancies available in nonteaching during this academic year by constituting internal panel. Providing faculty and staff with

employ benefit schemes like EPF, Group Insurance, ESIC, Academic, Maternity, Medical and earn leaves as per the eligibility criteria.

Library, ICT and Physical Infrastructure / Instrumentation

The institute is providing the space for library beyond the requirements of AICTE. The Library is having more than required number of titles. DIET Central Library possesses Integrated Library Management Software (SOUL 2.0) which supports for automation. It maintains separate Online Public Assess Catalogue (OPAC) for students and faculty to visualize the status of books. Moreover, maintains separate book bank for SC, ST, students. The Library provides additional books for the top three students in every academic year. Annually, the Central Library takes the privilege to reward both faculty and students with Best Library User Awards. It also provides Reprographic Service for students and staff members. To encourage and help students develop communication skills, The Central Library conducts Book Talk to students. Prevalence of student centric learning environment provided in the campus where in students are provided with digital library facility which enables them to have access to video lectures on their related subjects. Digital library at DIET provides a variety of digital information sources. It reduces the physical space, the user can access information remotely and it also provides access to distributed information resources. Digital library at DIET is made up of digital collections including document surrogates like bibliographic records and indexes in addition to full-text documents, videos, images some of which cannot be represented or distributed in printed formats. These digital works include both internal and external resources. The digital library at DIET provides students with access to educational materials, i.e. solved and unsolved problem sets, course ware modules (drills, simulations, models, virtual lab benches, and class presentation materials. Extensive use of ICT in teaching learning. Regular monitoring of physical infrastructure and repairing as per requirement.

Research and Development

Some of the departments are having RD

laboratories with state of art infrastructure. The institute encourages the faculty and students by providing seed money and incentives to the Journal publications and projects. The institute encourages the cross cultured and multi-disciplinary research among the faculty and students by providing the industry and academia connectivity and also by providing necessary assistance through Institute Innovation Cell. Journal Paper and Book Chapter Publications Patents, Designs, Copyrights encouragement and support Projects and Grant proposals Awards and Research Incentives Ideas, Innovations Mentoring and Funding Competitions on logo design, Innovative Ideas, patents Organization of seminars and workshops on research. Review meetings are conducting by research forum on regular basis to encourage researchers.

Examination and Evaluation

Since it is affiliated to JNTU Kakinada, the institute is following policies and reforms made by the university from time to time. In the process of internal evaluation, the institute is come up with certain policies and reforms. Internal question papers are being prepared basing on the Bloom's taxonomy to meet the requirements of OBE. In order to evaluate the internal assessment as recommended by University the institute has given the Assignment questions one in pre mid and one in post mid. Online Quiz examinations are being conducted as directed by affiliating university in order to assess the internal evaluation Two midterm examinations and one Semester end examination are conducted. The practical/laboratory internal assessment is being made basing on the day-to-day performance, record and internal examination and viva. Mid examination analysis is carried out. The process of evaluating UG/PG Projects, The institute PRC conducted three internal reviews and external viva-voce as per the directions of affiliating university. Videography and Double valuation in internal examination for all PG Courses. Revaluation Recounting and challenge valuation as per university norms. Photo Copy of the script is provided to the student on demand as per university norms. Grievances cell

	for examination related grievances is in operation. Online publication of results and performance analysis.
Teaching and Learning	Organizing Seminars, conferences and competitions to promote creative thinking to extract desired competencies. Extensive use of ICT in teaching and learning beyond classrooms Involving experts from industry and other research and academic institutions. Focus on experiential learning and participative learning Effective implementation of academic schedule and teaching plans Student seminars, assignments, projects and field work are part of the curriculum in majority of the programs. The students are provided with academic guides for interaction beyond classrooms. The advanced learners take partnership in innovative projects with the faculty members Different approaches are adopted to support slow learners and advanced learners. Remedial and backlog class are being conducted for slow and backlog students respectively. Focusing on diversified students basing on different approaches suitable measures are being implemented.
Curriculum Development	Adopted elective based Curriculum prescribed by Affiliating University. Open electives across the programs to enhance the strength, knowledge and professional competency of the students. Curriculum enrichment Programmes Flexibility in registering for the courses offered by various competent institutions like IIT, NIT etc., encouraging and mentoring for online courses like Coursera, NPTEL and other MOOCs

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

E-governance area	Details
Planning and Development	The following mechanisms are adopted by the Institute for a smooth planning and development across the campus • Resources for E-Governance are provided like smart phones and SIM cards • Sending messages to students and parents through point SMS software tools and bulk marketing pro whatsapp software. • Online classes are being conducted through Google Classroom • A dynamic website is in practice for all necessary information to all the stake

	<p>holders of the institute • Intercom facility is also provided to all the departments, laboratories, library, office etc., for effective communication within the college premises • A separate face book and Instagram account are being maintained by the college for updating the ongoing activities of the institute • Institute has also purchased a dedicated Online Meeting Account - Zoom for conducting online webinars workshops • Official Mail IDs for all the students and staff are purchased through Google Suite Platform.</p>
Administration	<p>All the HR works, Transportation, Civil and construction, Maintenance works are monitored through E Governance. Moreover, E-CAP and E Z School software are available as a part of E Resources</p>
Finance and Accounts	<p>The Salaries and Payments and Fee dues are collected through Online Digital Payment facility Tally and E CAP software tools are in practice for maintaining a record of all the financial transactions</p>
Student Admission and Support	<p>The admission enrollment, registration and related process is carried out using the E CAP software Timely updates are provided to all the aspiring students through the bulk SMS and Bulk Whatsapp software in addition to a vibrant college website and facebook/Instagram accounts</p>
Examination	<p>ECAP software is used for examination related issues.</p>

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Mr.K.Sasidhar	Outcome Based Education -NIT Warangal- Electronics ICT Academy	Nill	2500
2019	S.Panigrahi	Outcome Based Education -NIT Warangal- Electronics ICT Academy	Nill	2500

2019	Trk.PydiRaju	Outcome Based Education -NIT Warangal- Electronics ICT Academy	Nill	2500
2019	S.Vanaja	Outcome Based Education -NIT Warangal- Electronics ICT Academy	Nill	2500
2019	K.Murali	Outcome Based Education -NIT Warangal- Electronics ICT Academy	Nill	2500
2019	P.Madhuri	Outcome Based Education -NIT Warangal- Electronics ICT Academy	Nill	2500
2019	D.Swapna	Outcome Based Education -NIT Warangal- Electronics ICT Academy	Nill	2500
2019	B.Ch.K.Preethi	Outcome Based Education -NIT Warangal- Electronics ICT Academy	Nill	2500
2019	P.Venkat Murali	Outcome Based Education -NIT Warangal- Electronics ICT Academy	Nill	2500
2019	Dr.Ch.Prabhakar Rao	Outcome Based Education -NIT Warangal- Electronics ICT Academy	Nill	2500
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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	OBE(Outcome Based Education)	Nill	27/05/2019	01/06/2019	76	Nill

2019	problem solving Programming using Python	Nil	04/09/2019	14/09/2019	43	Nil
2020	Nil	An Orientation programme on Hydraulics Lab	20/03/2020	21/03/2020	3	4
2020	Nil	Training on MS Office tools	06/03/2020	07/03/2020	1	3
2019	Nil	MATLAB ON Ramp	18/11/2019	23/11/2019	2	4
2020	Nil	Training on MS Office Tools	06/03/2020	07/03/2020	1	10
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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
Tata steel Capability Development certificate course on PLCs	1	15/05/2020	22/05/2020	8
National online FDP on covid-19 as global crisis application and depreciation of language and literature from	1	12/05/2020	14/05/2020	3
FDP on Research Challenges and Innovations in Renewable Energy Systems	1	11/05/2020	16/05/2020	6
Online Teaching Etiquette Best Practices	5	10/05/2020	15/05/2020	5
Math works	1	02/05/2020	10/05/2020	9

Training services AICTE Approved course				
FDP on online college Management Online Content Creation Tools	1	30/04/2020	02/05/2020	3
Universal Human values Online course on examination reforms	1	24/04/2020	29/04/2020	5
Life skills education to project intellectual property and Leverage Ethical Behaviour	2	10/07/2019	23/07/2019	14
Outcome based Education-FDP	52	25/05/2019	01/06/2019	6
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
137	137	58	58

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Provident Fund, Group Insurance, increments and incentives	Provident Fund, ESI, Group Insurance, increments and incentives	Sponsorship of fee to poor and merit students, Group insurance, cash prizes and silver medals for meritorious students.

6.4 – Financial Management and Resource Mobilization

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

The institute has an effective mechanism for auditing the accounts. The accounts of the institute are audited by chartered accountant regularly as per Government rules. When there are additional expenses over and above the budget proposals, special sanction is to be taken from the management. The accounting and Audit Committee looks after the Internal Audit and it is presented to the certified Chartered Accountant. External and Internal Financial Audits were done for the financial year 2019-20

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose

-	Nil	-
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6.4.3 – Total corpus fund generated

00

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	ISO	Yes	IQAC
Administrative	Yes	ISO	Yes	IQAC

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

<p>1.Parent – Teacher meet: Activities and support from the Parent – Teacher Association, Institute organizes periodic parent – teacher meetings to understand the perceptions and expectations of the parents. The parents have periodically appraised the department activities through their wards and through Phone calls. 2. Parents feedback and Action taken: Outcome 1: Outcome 2: The feedback back from parents on various academic and non academic activities are collected and analyzed. 3. Regular Phone calls to parents by Mentor/Class teacher to inform the attendance and performance of their wards 4. Institute believes and maintains a holistic relationship of teacher and parents can improve the quality of education and it adopts several initiatives in this direction.</p>
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6.5.3 – Development programmes for support staff (at least three)

<p>1. To give increments and incentives 2. To give personal loans on occasional basis. 3. Helping hand for the development of support staff</p>

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

<p>1.Linkages with academic, research institutions and industries of national and international importance. 2.Participated in national ranking systems. 3.Outcome based education</p>

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	Academic Feedback Odd Semester (2,3,4 B.Tech Classes)	24/06/2019	24/06/2019	29/06/2019	740
2020	Academic	02/12/2019	02/12/2019	07/12/2019	723

	Feedback Even Semester (2,3,4 B.Tech Classes)				
2019	Academic Audit Odd Semester	30/12/2019	30/12/2019	04/01/2020	15
2020	Academic and Administrative Audit (AAA)	28/12/2020	28/12/2020	31/12/2020	15
2020	Academic Audit Even Semester	14/12/2020	14/12/2020	19/12/2020	15
2019	Collaborative activities for research	12/07/2019	12/07/2019	13/07/2019	150
Nil	Mathematics Day	21/12/2019	21/12/2019	21/12/2019	150
2020	Entrepreneurship Development Programme	20/02/2020	20/02/2020	20/02/2020	252
Nil	Academic Feedback Odd Semester (First Year B.Tech)	09/09/2019	09/09/2019	14/09/2019	164
Nil	Academic Feedback Even Semester (First Year B.Tech)	17/02/2020	17/02/2020	22/02/2020	164
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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
International Women's Day	07/03/2020	07/03/2020	120	Nil
Human Rights Day	10/12/2019	10/12/2019	40	80
National	11/11/2019	11/11/2019	40	20

Education Day -Birthday of Moulana Abul kalam Azad				
World Students' Day- Birthday of Dr.A.P.J.Abdul Kalam	15/10/2019	15/10/2019	80	60

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
Percentage of power requirement of the University met by the renewable energy sources As an initiative to adopt renewable energy generation, the institute has encouraged the students of Electrical engineering department to work on a real time project of illuminating street lights in the campus with solar energy. As a part of this, the department of EEE at DIET collaborated with EFFISOL Energy Solutions PVT Ltd., to erect an off-grid solar photo voltaic system with an installed capacity of 2 KVA MPPT Technology based solar inverter, 6 solar panels rated at 1.92kwp 8 solar batteries with individual capacity of 150 Ah to meet the street light illumination needs at college premises. Solar energy resource is available and it is mostly used for street lights at night time in the campus

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	2
Provision for lift	Yes	180
Ramp/Rails	Yes	4
Rest Rooms	Yes	10
Scribes for examination	Yes	2

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	21/06/2019	3	International Yoga Day	Awareness on Yoga and Asanas	40
2019	1	1	20/08/2019	10	Road safety awareness	Wear helmet No triple riding Wear seat belt	102
2019	1	1	01/10/2019	7	Mega		50

			019		Blood Donation Camp	Awareness the importance of donating blood	
2019	1	1	10/12/2019	2	Human Rights Day	Awareness on Human rights , need and importance	120
2020	1	1	05/06/2020	4	World Environment Day	Save and protect earth Plantation	60
2020	1	1	21/06/2020	2	International Yoga Day	Awareness on Yoga and Asanas	60

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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)
Student Manual	12/04/2019	<p>1.Students shall maintain Discipline in the campus. Self-discipline will help the students to handle their work, maintain consistency in work and manage their time well.</p> <p>2.A student should be diligent and determined towards studies or any work allotted to them. They should be ready to work hard in order to achieve his laid objectives. This is one quality that keeps the student consistent and eliminates procrastination.</p> <p>3. Every student must value time. Punctuality should be the first policy of a student, as that would lead them to be a successful person in life. Students should be on time in college, in the classes and complete the assignments helps the</p>

students to value their time and the remaining time they must indulge in building their technical skills 4.A student must be Courteous. They should respect teachers, college staff, seniors and fellow students as a sign of good etiquette. The students should be humble and nurture morality and ethics, being such, they would be loved by all. 5.A good student should always be a team player. They shall motivate and inspire others and cooperate with all. They should be positive, and build an amicable environment in the campus. They should be able to develop goodwill among all. These all skills would develop leadership skills among students. 6.A student should be responsible and capable of making their career successful. Determination and perseverance should be the main quality of a student. These qualities would make them aware of their strength and weakness and they would be able to overcome the challenges. 7. A student can be a role model and can set up a benchmark for their juniors to follow. They should be all-rounders in terms of academics and extra-curricular activities. This would help other students to magnify their career and be successful in life. 8. Students should be able to project their Confidence. They should have self-belief in their ability. This quality should be developed and in long run this would help them to

		be a successful leader in future
Administration Manual	10/04/2019	<p>1. A teacher shall live and lead by example in every sphere of conduct particularly to inculcate a culture in students to respect parents, teacher, and elders and to love the nation</p> <p>2. A teacher shall always listen to students with concern, whether it be in respect of doubts in lessons or it be relating to any personal help</p> <p>3. A teacher shall attend to parents as a true representative of the institution. Clarify their doubts with concern and help them understanding the system in a better manner.</p> <p>4. A teacher shall always accept the entity of fellow teachers' honour their sentiments and respect their value system.</p> <p>5. A teacher shall never gossip or discuss unauthentic information with peers or other members or public which might provoke a sensation or ill feeling of any sort.</p>

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Student Induction 2019-2020	09/08/2019	16/08/2019	160
Personality Development Programs	10/08/2019	10/08/2019	160
Goal Setting	11/11/2019	11/11/2019	160
Personality Development Programs	24/02/2020	24/02/2020	160

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

1. Plantation and Go green Programs. 2. Plants are given to guests instead of bouquets. 3. Clean and green and hazardous waste management programs on every Saturday 4. Constructed water harvesting pits for rain water harvesting. 5. "No

plastic usage" awareness programs. 6. E-waste management. The e-waste is disposed of by calling tenders from the vendors who use it for recycling.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best practice 1-Professional bodies and connectivity. • DIET is a self-financed Private Engineering College associated with a greater number of International and National Level Professional Bodies having active student branches. Student branches of The Institute of Electrical Electronics Engineers (IEEE), Association for Computing Machinery (ACM), The Institute of Engineering Technology (IET), Indian Society for Technical Education (ISTE), Computer Society of India (CSI), The Institute of Electronics and Telecommunication Engineers (IETE), The Institute of Engineers (INDIA), Confederation of Indian Industries (CII) AP Information Technology Academy (APITA) Andhra Pradesh Society for Mathematical Sciences (APSMS), Andhra Pradesh Chambers of Commerce and Industry Federation Infosys Campus Connect, Some programs have been conducted in association with these professional Bodies. 01. DIET IEEE Student Branch is one of the vibrant and active Student Branches in the Vizag Bay section of Region R10 02. Students of DIET IEEE Student Branch have been nominated as SN Members of the section across the state. 03. Faculty member of DIET IEEE SB is nominated as the SAC Chair [Student Activity Chair] of IEEE Vizag Bay Section . 04. DIET IEEE students consistently take part in the IEEE Extreme global 24-hour programming competition with record no. of teams participating and grabbing good number of world rankings. Best Practice 2- Counseling and Mentoring Mentor monitors the students in the following aspects- 1. Student general information 2. Monthly consolidated attendance 3. Internal examinations and evaluation 4. University examinations 5. Bi- weekly report of academics, 6. Behavior and extracurricular activities 7. Academic development 8. Personality development. 9. Indiscipline activities if any 10. Details of Parent's visit 11. Conducting parents meet 12. Feedback from parents 13. Mentor overall report 14. CRT 15. Suggestions of the mentor for further development 16. Motivate the students to do the project works in innovation and incubation Center. Best Practice 3- Green Campus A Green Campus is a place where environmentally friendly practices and education combine to promote sustainable and eco-friendly practices in the campus. The green campus concept offers an institution the opportunity to take the lead in redefining its environmental culture and developing new paradigms by creating sustainable solutions to environmental, social and economic needs of the mankind. Greening the campus is all about sweeping away wasteful inefficiencies and using conventional sources of energies for its daily power needs, correct disposal handling, purchase of environment friendly supplies and effective recycling program. Institute has to work out the time bound strategies to implement green campus initiatives. These strategies need to be incorporated into the institutional planning and budgeting processes with the aim of developing a clean and green campus. In addition to being learning centers, college and university campuses are self-contained communities that are supported by vast systems of institutional and operational functions. A Green Campus is one that carries out these functions according to a system-wide culture of environmental sustainability, balancing function and design with existing and foreseen resources. A Green Campus is a place where environmentally responsible practice and education go hand in hand and where environmentally responsible tenets are borne out by example. The Green Campus institution is a laboratory of self-scrutiny, experimentation, and application. At its best, it is a model environmental community where operational functions, business practices, academic programs, and people are interlinked, providing educational and practical value to the institution, the region, and the world.

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

institution website, provide the link

https://diet.edu.in/cmooon_pdf/best_practice_1_27_1_.pdf

7.3 – Institutional Distinctiveness

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

In addition to performing the scholastic and non-scholastic activities the institute encourages the students and staff to perform some outreach activities. The institute encourages and supports the interested students to realize the social responsibilities in the form of conducting activities as well as service support to the needy people. A survey was conducted as part of special camp in the adopted villages Akkireddipalem and Maredupudi. Various activities conducted: • Swatch Bharath Abhiyan was conducted and volunteers actively cleaned the premises of ZPH school at Akkireddipalem. • The volunteers informed the local people about the State Government Welfare Schemes. • Energy Conservation tips were shared and pamphlets on the same were distributed. Some people required a medical camp in the local area and in this connection a medical camp was conducted. • The school pupil and management local president supported the survey activity and even the school blackboard was also painted on 8-1-2020. As per school management request, provision for mike facility was provided in the primary school. 1. Adoption of nearby villages 2. Student Academic Awards and Felicitation to the parents of topper students.

Provide the weblink of the institution

https://diet.edu.in/cmooon_pdf/7_3_1_institution_distinctiveness.pdf

8.Future Plans of Actions for Next Academic Year

FUTURE PLAN OF ACTION 2019-20 To Prepare Institutional academic plan for odd and even semesters comprises with all the curricular, co-curricular, extra-curricular and extension activities 1. To collect feedback from students on 15 quality parameters related to curriculum, teaching, learning and evaluation processes. 2. To collect the feedback from parents and alumni. 3. To encourage meritorious faculty by distribution of awards with silver medals, cash prizes and certificates by management in Teacher's day celebrations. 4. To encourage students, awards will be issued to the meritorious students with presentation of silver medals, prizes, cash awards along with merit certificates on Graduation day celebration. 5. Conduct quality awareness campaigns 6. Continue the best quality initiatives 7. Conduct workshops on latest and updated topics 8. Conduct seminars on technical skills 9. Conduct Campus Recruitment Training classes from II B.Tech onwards and also for I and II MBA students 10. Conduct one or two Faculty Development Programmes 11. Conduct Coaching for Competitive examinations i.e GATE and PG CET to outgoing students 12. Conduct skill development programmes through C.M's skill Excellency centre in association with APSSDC APITA, NITs, IITs and professional bodies 13. Conduct extension activities like celebrations of International and National days, Mega blood donation camp, Swatch Bharath, NSS activities with monthly themes like No plastic usage, Road safety, anaemia, cancer awareness etc, special camp at adopted villages, Music classes, Dance classes etc., 14. To improve the teaching pedagogy through Information and Communication Technology (ICT) 15. To improve innovative projects 16. To concentrate on Research and Development activities like paper presentations and publications in reputed journals, patents and consultancies 17. To expand the activities as student -centric in all the Departmental clubs 18. Conduct the departmental club activities and tech fests 19. Conduct Literary and cultural activities in Fresher's day, valedictory day and college annual day i.e DIET utsav, Tech Fests, Engineer's day and Graduation day celebrations. 20. Conduct Academic and Administrative Audits (AAA) by two internal audits and one surveillance audit by external agency towards quality measurements and

enhancement.