Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY**
Name of the head of the Institution	**Dr. T.K. Rama Krishna Rao**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**08842326212**
Mobile no.	**9000276662**
Registered Email	**principal@acet.ac.in**
Alternate Email	**ramakrishnatk@gmail.com**
Address	**ADB Road, Surampalem, Peddapuram Mandal, E.G. Dist.**
City/Town	**Surampalem**
State/UT	**Andhra Pradesh**
Pincode	**533437**

2. Institutional Status

Affiliated / Constituent	**Affiliated**
Type of Institution	**Co-education**
Location	**Rural**
Financial Status	**private**
Name of the IQAC co-ordinator/Director	**Dr. RVS Lalitha**
Phone no/Alternate Phone no.	**08842326212**
Mobile no.	**8008379819**
Registered Email	**iqac_coordinator@acet.ac.in**
Alternate Email	**office@acet.ac.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://acet.ac.in/acet/All_commitees/AQAR%20ACET%202018-19.pdf

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	http://acet.ac.in/?p=examination&category=&committeename=Examination%20Committee#tab6

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**B**	**2.68**	**2016**	**11-Jul-2016**	**10-Jul-2021**

6. Date of Establishment of IQAC	**15-Nov-2015**

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries

Inculcating research paper writing and uplifting coding skills in Faculty	09-Dec-2019 6	40
Webinar on Writing Research proposal	24-Jul-2019 1	122
Awareness program on preparing online AQAR	22-Jul-2019 1	52
Short Time Training program on Effective Teaching organized by NITTTR, Kolkota	15-Jul-2019 5	52
Orientation Program on Startup initiation, Research projects and Certifications by Faculty	16-Mar-2020 6	96
Impact Lecture Session on Intellectual Property Rights by Institute of Innovation Council	07-Mar-2020 1	54

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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
ACET - IIC - ECE Department	Funding support by MHRD for conducting IMPACT Lecture sessions (IPR)	MHRD	2020 2	26000
ACET - Mechanical Department	Grant for Technical activities by Institutional members of IEI (IM000543/8) for conducting National workshop on Hands on experience on Welding Technology	IEI	2019 2	20000
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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes	

Upload latest notification of formation of IQAC	[View Link](#)
10. Number of IQAC meetings held during the year :	**2**
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	**Yes**
Upload the minutes of meeting and action taken report	[View Uploaded File](#)
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	**Yes**
If yes, mention the amount	**62120**
Year	**2020**

12. Significant contributions made by IQAC during the current year(maximum five bullets)

Inter disciplinary projects in collaboration with other departments are encouraged.

As the institution is allotted with HIBI center, the research ideas that can be transformed into business ideas are encouraged.

Faculty publications in reputed journals and conferences will be awarded with incentives.

All faculty members are advised to create their own digital libraries in the subjects they taught and create blogs on their names.

In order to procure NIRF ranking faculty publications need to be enhanced. Research paper writing workshops are conducted by eminent resource persons to encourage research scholars and research initiatives for making them understand and focus on research paper writing skills.

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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
Students are encouraged to do Online certifications	**Many students have undergone special technical training and did certifications through CISCO, Microsoft and CCNA, TCS,VMWARE, IBM, UIPATH,**

	APSSDC, UDEMY etc.
Students are encouraged to participate in online coding competitions.	Many students have participated in Google Week, Google Kick Start, Google Jam, etc
Students are encouraged towards International Fellowships	Students from CSE,ECE,IT are selected to do University Innovation Fellows Program (UIF), Silicon Valley, US.
Project exhibition is to be conducted to exhibit the final year projects	Project expo for all the final year students and for all branches was conducted to disseminate the project oriented knowledge to juniors.
Faculty members are encouraged to do certifications	Many faculty have done certifications in HackerRank, NPTEL, Coursera etc.
Technology training and coding practice to students is to be conducted from 3rd year onwards.	Many students have done certifications in HackerRank, NPTEL, Coursera etc.
Campus Recruitment Training	Campus Recruitment Training is given to students before lockdown and during lockdown period online training is conducted.
Online assessment through COCUBES	Secured placements through COCUBES rank with high package.
Encourage students towards Coding challenges	Students participated in Google code jam
Identify students for Campus Ambassador	Students from CSE have selected as Campus Ambassador for Coding Ninjas and Atos Syntel
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14. Whether AQAR was placed before statutory body ?	Yes

Name of Statutory Body	Meeting Date
Governing Body	18-Mar-2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No

16. Whether institutional data submitted to AISHE:	Yes

Year of Submission	2020

Date of Submission	11-Mar-2020

17. Does the Institution have Management Information System ?	Yes

If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	Aditya College of Engineering and Technology has designed E Governance Policy, with the primary objective of implementing E Governance in various interactions and services of the Institution. This policy will help in achieving efficiency in all the various operations of the Instructions in an integrated manner to enable transparency, clarity in different functionalities of the instructions about Teaching Learning (Academic), Administration, Examinations, Finance accounting, Library, Admissions, etc. To have integrated user friendly Enterprise Resource Planning (ERP) solutions to automate various modules of Institutional functioning, adequate training to all the staff for effective use is also planned. By the direction of the Institutions Governing Body suitable ERP has to be deployed and put into the appropriate use, required training has to be provided for the staff members of the College to get the optimal benefits from the software and connect with stakeholders. The website is put to full use as a vital information source to all the stakeholders and all important communications/circulars notices are made available on web site to ensure reaching of information to the needy any time anywhere. The access has been given to various stakeholders to maximize the use to stay connected with parents, students, and staff to intimate absentees, academic performance, holidays, and other required information. 1. Administration 2. Finance and Accounts 3. Student Admission and Support 4. Examination 5. Library

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

Aditya College of Engineering and Technology (ACET) has well-planned curriculum delivery and documentation mechanism. The Institute is affiliated with the Jawaharlal Nehru Technological University Kakinada (JNTUK), Kakinada. The Institute implements the academic calendar events meticulously through Continuous Internal Evolution (CIE). The Institute implements various teaching delivery methods and performance assessment items. Teaching methodologies like

chalk and talk, PPTs, tutorials, online classes, communicating with students by electronic media, proctoring and discussions are followed. The Institute implements CIE through assessment items such as short or long answer tests with written explanations, assignments, quizzes, mid examinations, laboratory experiments, student projects, field works, seminars, and presentations, etc. Also the Institute enriches the University curriculum by introducing value-added courses, certificate courses, skill development programs in the thrust areas to attain Institute objectives, and also suggestions and advice raised by the stakeholders. Further, the Institute has Department Academic Committees (DAC) to monitor and control curriculum delivery by conducting their internal meetings and developing academic plans for the coming academic year. Keeping in view, the number of working days available, the syllabus is divided according to the teaching plan so that the course delivery is finished in a given span. Each department of the Institute meticulously follows the academic calendar issued by the affiliating University, while implementing the curriculum delivery task. Furthermore, the teachers are encouraged to utilize instruction delivery before and to impart the curriculum through innovative teaching methods such as presentations, assignments, discussions, workshops, seminars, industrial visits, and other means apart from regular, traditional teaching methods and preparing course files. The course file contains a lesson plan, assignments, tutorials, previous question papers, lecture diary, and lecture notes. The course file of each course is reviewed by HoD on a continuous basis so that the Department is attaining the "Institute objectives, course outcomes, and stakeholders' requirements". If there is any gap in these attainments the Institute takes necessary steps to reduce the gaps.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development
Certificate Course on Python for ECE	Nil	25/11/2019	6	Employabil ity	Technical
Certificate Course on Digital Signal Processing with MATLAB	Nil	23/12/2019	6	Employabil ity	Technical
Certificate Course on Signals and Systems with MATLAB	Nil	20/01/2020	6	Employabil ity	Technical
Certificate Course on Robotics	Nil	02/03/2020	10	Empolyabil ity	Technical
Certificate Course on PLC	Nil	05/08/2019	10	Employabil ity	Technical

	Nil				
Programming applications					
Certificate course on reinforced cement concrete drilling	Nil	22/07/2019	6	Employability	Technical
Certificate course on software testing using selenium	Nil	17/02/2020	6	Employability	Technical
Certificate course on Revit	Nil	09/12/2019	10	Employability	Technical
Certificate course on Tekla	Nil	09/03/2020	10	Employability	Technical
Certificate course on visulization tools in Python	Nil	09/12/2019	6	Employability	Technical
Certificate course on RPA (Uipath)	Nil	09/03/2020	10	Employability	Technical
Certificate Course on AWS machine learning	Nil	22/07/2019	6	Employability	Technical
Certificate course on Power systems analysis on MATLAB	Nil	17/02/2020	6	Employability	Technical
Certificate Course on AWS SYS OPS	Nil	22/07/2019	7	Employability	Technical
Certificate Course on WEB	Nil	05/08/2019	10	Employability	Technical

development using PHP					
Certificate Course on CCENT	Nil	19/08/2019	6	Employabil ity	Technical
Certificate Course on CCNA Routing and Switching: Introduction to Networks	Nil	02/09/2019	5	Employabil ity	Technical
Certificate course on Cyber Security Essentials	Nil	07/10/2019	6	Employabil ity	Technical
Certificate course on UI Designing	Nil	04/11/2019	5	Employabil ity	Technical
Certificate course on Industrial Automation	Nil	09/12/2019	6	Employabil ity	Technical
Certificate course on IOT training to ECE	Nil	23/12/2019	10	Employabil ity	Technical
Certificate course on Machine Learning using python	Nil	20/01/2020	6	Employabil ity	Technical
Certificate course on MEAN Stack	Nil	03/02/2020	7	Employabil ity	Technical
Certificate course on RHCSA(Red Hat Certified System Admin istrator)	Nil	24/02/2020	6	Employabil ity	Technical
Certificate	Nil	05/08/2019	10	Employabil ity	Technical

course on AUGUMENT REALITY					
Certificate course on Artificial Intelligence	Nil	25/11/2019	6	Employability	Technical
Certificate course on Data Visualisation using R	Nil	17/02/2020	6	Employability	Technical
Certificate course on Banking Products Services	Nil	09/12/2019	6	Employability	Technical
Certificate course on Devops	Nil	16/12/2019	6	Employability	Technical
Certificate course on CATIA	Nil	12/08/2019	10	Employability	Technical
Certificate course on Solidworks	Nil	09/09/2019	10	Employability	Technical
Certificate course on Drafting Modelling using AUTOCAD	Nil	19/08/2019	6	Employability	Technical
Certificate course on Introduction to Ansys Using CFD	Nil	17/02/2020	6	Employability	Technical

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
Nill	NIL	Nill
[View Uploaded File](#)		

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
Mtech	Computer Science and Engineering	16/09/2019
Mtech	Power Electronics	16/09/2019
Mtech	Embedded Systems	16/09/2019
Mtech	CAD/CAM	16/09/2019
Mtech	Thermal Engineering	16/09/2019
Mtech	Structural Engineering	16/09/2019
BTech	Civil Engineering	10/06/2019
MCA	Master of Computer Applications	16/09/2019
MBA	Master of Business Administration	16/09/2019
BTech	Mechanical Engineering	10/06/2019
BTech	Electrical and Electronics Engineering	10/06/2019
BTech	Computer Science and Engineering	10/06/2019
BTech	Information Technology	10/06/2019

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

	Certificate	Diploma Course
Number of Students	1964	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
Value added course on NDG LINUX ESSENTIALS	17/02/2020	58
Value added course on BUILDING ROBOTS WITH TJBOT	09/09/2019	72
Value added course on Machine Learning	24/02/2020	41
Value added course on 2D GAMING	22/07/2019	45
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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 ENGINEERING	69
BTech	ELECTRICAL & ELECTRONICS ENGINEERING	74

BTech	MECHANICAL ENGINEERING	229
BTech	ELECTRONICS & COMMUNICATION ENGINEERING	242
BTech	COMPUTER SCIENCE & ENGINEERING	125
BTech	INFORMATION TECHNOLOGY	57
MBA	MBA	21
MCA	MCA	14
Mtech	STRUCTURAL ENGINEERING	6
Mtech	POWER ELECTRONICS	2
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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

Aditya College of Engineering and Technology understands planning and implementation curriculum system followed by continuous refinement through a well-structured Feedback system. The Departments collects feedback from all directions to its growth in achieving the objectives of the institution. Mainly documented feedback (online or offline) taken from students, faculty, employers, and parents. The student feedback is taken two times in each semester. This covers program and course design, curriculum design and implementation, syllabus coverage, faculty performance, various certificate courses (certificate, value-added, Bridge courses, skill development), etc. The faculty feedback is documented in each semester, which includes various factors such as program relevance courses, curriculum design, and development, course design, instruction delivery, assessment, and evolution, etc. The employer feedback is documented in each semester the parameters measured are subject knowledge and competence level, course design to narrow the gap between industry and academia, the quest for new learning, job fit, communication skill and attitude, overall rating, aptitude, and behavioral skill. Students can able to link the knowledge they gain with real-world situations, level of creativity, interest, and involvement in the profession. The Alumni and parent feedback is documented in each academic year. This includes the depth of knowledge and intellectual enrichment acquired through the course content. Skill-related courses included in the program, Value added courses offered in the Program. Teaching method followed by Teachers. Research orientation obtained during the program, Computer/Internet/ICT Facility. Library Reprographic Facility Career Guidance and Placement Activities, Cleanliness of campus, Mechanisms available to redress academic grievances. The helpful attitude of administrators, staff, and non-teaching staff to provide suitable campus culture and atmosphere. These feedback measures are used in the thrust areas to attain Institute objectives and also suggestions and advice raised by

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	CE	120	95	91
BTech	EEE	120	100	97
BTech	ME	240	165	158
BTech	ECE	24	250	240
BTech	CSE	120	123	120
BTech	IT	60	62	59
Mtech	CSE	24	2	2
Mtech	PE	18	2	2
Mtech	ES	18	1	1
Mtech	CAN/CAM	18	1	1
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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	2955	221	145	18	12

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	Numberof smart classrooms	E-resources and techniques used
185	185	7	61	61	5
[View File of ICT Tools and resources]()					
[View File of E-resources and techniques used]()					

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

The Institute has an effective proctoring or mentoring system that covers both academics and career issues. A faculty member is assigned with a group of 20 students for proctoring. The faculty member who is called as Proctor will monitor the student attendance, performance in the examinations, classroom behavior and so on. Each proctor maintains a register of their respective students and records their activities. Periodically the proctors will call the parents and inform progress of their ward, attendance and marks obtained in the class tests, semester end examinations and so on. The proctors also counsel their group students in academics, psychological and career issues. In the beginning of the academic year, Head of the Department allocates the students of their department to the proctor in 1:20 ratio. The proctor will meet the students in group and in

person. In personal interaction the proctor collects information about socioeconomic background, education, hobbies and so on. The proctor will encourage their group of students to participate in curricular, co-curricular and extra-curricular activities.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3176	185	1:17

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
185	28	0	28	9

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	KANDERI SHANTHI	Assistant Professor	Elite-Silver
2019	SUJATHA PALIKA	Assistant Professor	Elite-Silver
2019	TANGUDUPALLI MAHESH KUMAR	Assistant Professor	Elite-gold
2019	PULLELLA SAI SITARAMA PAVAN KUMAR	Assistant Professor	Elite-Silver
2019	Dr. R.V.S. Lalitha	Professor	Reviewer for Conference ICTIEE 2019 from IUCEE
2020	Dr. R.V.S. Lalitha	Professor	Resource person for Research paper writing Workshop for Research Scholars and Doctorates for Aditya Group of Engineering Colleges
2020	Dr. Chaluvadi V Raghavendran	Professor	Resource person for Research paper writing Workshop for Research Scholars and Doctorates for Aditya Group of Engineering Colleges
2019	KAGANA SARATH ABU	Assistant Professor	NPTEL-Elite
2020	Dr. R.V. Vijaya	Professor	IEEE Senior

	Krishna		member	
2020	Dr. B. Rajani	Associate Professor	Technical Program Committee Member, ICIATE	

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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	A01	1/1	29/01/2020	23/06/2020
BTech	A02	1/1	29/01/2020	23/06/2020
BTech	A03	1/1	29/01/2020	23/06/2020
BTech	A04	1/1	29/01/2020	23/06/2020
BTech	A05	1/1	29/01/2020	23/06/2020
BTech	A12	1/1	29/01/2020	23/06/2020
BTech	A01	1/2	26/12/2020	27/02/2021
BTech	A02	1/2	26/12/2020	27/02/2021
BTech	A03	1/2	26/12/2020	27/02/2021
BTech	A04	1/2	26/12/2020	27/02/2021

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

There are various strategies to meet the evaluation methods, we are strictly adhering to JNTUK, Kakinada norms and conditions for Continuous Internal Evaluation. There are various time slots allocated to conduct Descriptive and Online Tests for each and every department. Based on the University academic schedule, we are planned in such a way the evaluation is completed time to time and submitted through the exam cell. The same has been displayed in the concerned department notice board and every student may be aware of their own performance. In addition to that, to enrich student's knowledge, we are conducting the Guest Lectures, Seminars and technical workshops on recent trends. It will help the students to interact with the resource persons from reputed Educational Institutions and Industries. Also, the Tech-Fest like "VEDA" increases the student's strength, quiz and design contest participation establishes good relationships among the neighborhood Institutions. Moreover the students are allowed to engage themselves in social activities like NSS, Swachh Bharat the same has been evaluated on their quality of work culture.

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

The Institute planned the calendar systematically and develops necessary plans for effective implementation of the academic calendar every year. In this regard, the Principal conduct meetings regularly with the IQAC Coordinator, Heads of Departments and respective coordinators, Tech-Fest committee and Sports committee. It helps to develop various strategies at academic level and for effective implementation of Co-curricular and Extra-curricular activities. Finally, the detailed academic calendar is distributed among the Head of the

Departments, Exam cell, students and placed on the College Website. The semester plan is well organized and prioritizing academic action plans on the basis of the academic calendar issued by JNTUK, Kakinada. In this, we schedule the date of commencement, conduction of internal assessments test duration, and last working date also. Besides the use of conventional methods, adapting the effective way of ICT techniques showed an improvement in the understanding levels of the slow learners. To meet industry standards many more Value Added courses, Training programs, Workshops, Hack-a-thons, coding competitions and more activities will be planned and implemented .

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)

http://acet.ac.in/?p=EEE

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
A01	BTech	CE	66	54	81.82
A02	BTech	EEE	65	40	61.54
A03	BTech	ME	210	149	70.95
A04	BTech	ECE	228	171	75
A05	BTech	CSE	115	76	66.09
A12	BTech	IT	51	38	74.51
D55	Mtech	ES	1	1	100
D58	Mtech	CSE	2	2	100
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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)

http://acet.ac.in/acet/All_commitees/2019_20_SSS_report.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)	3	Institute of Engineers(IEI), Kolkata	0.2	0.2
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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

Marketing	HBS	21/01/2020
Investment and capital methods	HBS	30/12/2019
HRM	CSE	19/12/2019
Accountancy for managers	CSE,EEE	12/09/2019
Global opportunities for students	EEE	28/08/2019
Design Thinking and Innovations	ECE	26/02/2020
IMPACT Lecture Session Intellectual Property Rights	ECE	07/03/2020
Entrepreneurship Development	HBS	20/02/2020

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
2020 University Innovation Fellows Silicon Valley Meetup	Aditya College of Engineering and Technology	UIF, USA	11/01/2020	Innovative projects
3.5 Star rating for IIC	Aditya College of Engineering and Technology	IIC, MoEs Innovation Cell, GoI	22/09/2020	Innovation and Startup in Campus
[View Uploaded File](#)				

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
Aditya College of Engineering and Technology	V Bharath	Self	Trigid Innovations Pvt. Ltd.	Designing	12/09/2019
[View Uploaded File](#)					

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

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

Name of the Department	Number of PhD's Awarded
NIL	0

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	ECE	2	0.15
International	CSE	9	0.11
International	IT	6	0.12
International	HBS	6	2.15
International	EEE	5	0.38

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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
ECE	11
IT	3

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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
Performance Analysis of Direct-quadrature in Three Phase Induction Motor drive	G.Seshadri, B.Rajani, S. Arul kumar, C. K. Kishore, V.C. Jagan mohan, S. Sivaganesan	Studia Rosen thaliana	2020	0	Aditya College of Engineering Technology	0
Performance Analysis of Grid Synchronization Method for Three Phase Three-wire Networks under Grid fault conditions	Tirumala Anitha Rajani Boddepalli G Seshadri Ch Kamal	Waffen-und Kostum kunde	2020	0	Aditya College of Engineering Technology	2
Enhancing clinical decision support systems using supervised learning	T.Srinvivasulu, S.Srujan, Ch.V.Raghavendran	The International Journal of analytical and experimental modal analysis	2020	0	Aditya College of Engineering Technology	0

methods						
Chunk Irrigation of Farm Field-Through Wireless Sensing Technique	Shaik Vahida, Rayudu Srinivas, Rama Reddy T, Sheik Shabuddin, B.Durga Anuja	International Journal of Innovative Technology and Exploring Engineering	2020	0	Aditya College of Engineering Technology	0
Performance and emission characteristics of variable compression ratio CI engine fueled with dual biodiesel blends of Rapeseed and Mahua Fuel	M. Murugan,A.Saravanan, M.Sreenivasa Reddy, SatyajeetParida	Fuel	2020	0	Aditya College of Engineering TechnologyAditya College of Engineering Technology	66
Study of microstructure and mechanical properties of aluminium alloy (AA-6351-T6) using friction stir welding.	Pramod Kumar, RajeshKumar, BideshKumar Hembram, M.Murugan, AbdulArif, M.Veerababu	Materials Today:Proceedings	2020	0	Aditya College of Engineering Technology	4
Investigation of numerical modelling of TIG welding of austenitic stainless steel (304L)	Pramod Kumar, RajeshKumar, AbdulArif, M.Veerababu	Materials Today:Proceedings	2020	0	Aditya College of Engineering Technology	9
Exploiting Ensemble Learning for Rainfall Prediction	Kovvuri N Bhargavi, G.Jaya Suma	International Journal of Engineering and Advanced Technology	2020	0	Aditya College of Engineering Technology	0

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 studies on damping behaviour of nickel electroplated A356.2 alloy	NitlaStanley Ebenezer, P.S.V.V.Srihari, Chitturi Ram Prasad	Materials Today:Proceedings	2020	0		Aditya College of Engineering Technology	8
Synthesis, structural, dielectric and magnetic properties of cobalt ferrite nanomaterial prepared by sol-gel autocombustion technique	Tulu Wegayehu Mammo, N. Murali, Ch VijayaKumari, S.J.Margarette, A.Ramakrishna, RaghavendraVemuri, Y.B.Shankar Rao, K.L.Vijaya Prasad, Y.Rama Krishna, K.Samatha	Physica B: Physics of Condensed Matter	2020	0		Aditya College of Engineering Technology	22

Note: the above two rows also contain a trailing value (8 and 22) in the last visual column.

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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
Performance Analysis of Direct-quadrature in Three Phase Induction Motor drive	G.Seshadri, B.Rajani, S. Arul kumar, C. K. Kishore, V.C. Jagan mohan, S. Sivaganesan	Studia Rosen thaliana	2020	6	0	Aditya College of Engineering Technology
Performance Analysis of Grid Synchronization Method for Three	Tirumala Anitha Rajani Boddepalli G Seshadri Ch Kamal	Waffen- und Kostum kunde	2020	2	2	Aditya College of Engineering Technology

Phase Three-wire Networks under Grid fault conditions						
Enhancing clinical decision support systems using supervised learning methods	T.Srinvivasulu, S.Srujan, Ch.V.Raghavendran	The International Journal of analytical and experimental modal analysis	2020	0	0	Aditya College of Engineering Technology
Chunk Irrigation of Farm Field-Through Wireless Sensing Technique	Shaik Vahida, Rayudu Srinivas, Rama Reddy T, Sheik Shabuddin, B.Durga Anuja	International Journal of Innovative Technology and Exploring Engineering	2020	40	0	Aditya College of Engineering Technology
Performance and emission characteristics of variable compression ratio CI engine fueled with dual biodiesel blends of Rapeseed and Mahua Fuel	M. Murugan,A.Saravanan, M.SreenivasaReddy, SatyajeetParida	Fuel	2020	213	66	Aditya College of Engineering Technology
Study of microstructure and mechanical properties of aluminium alloy (AA-6351-T6) using friction stir welding.	Pramod Kumar, RajeshKumar, BideshKumar Hembram, M.Murugan, AbdulArif, M.Veerababu	Materials Today:Proceedings	2020	47	4	Aditya College of Engineering Technology
Investigation of	Pramod Kumar, Raj	Materials	2020	47	9	Aditya College of

numerical modelling of TIG welding of austenitic stainless steel (304L)	eshKumar, AbdulArif, M.Veerababu	Today:Proceedings				Engineering Technology
Exploiting Ensemble Learning for Rainfall Prediction using Meta Regressors and Meta Classifiers	Kovvuri N Bhargavi, G.Jaya Suma	International Journal of Engineering and Advanced Technology	2020	18	0	Aditya College of Engineering Technology
Experimental studies on damping behaviour of nickel electroplated A356.2 alloy	NitlaStanley Ebenezer, P.S.V.V.Srihari, Chitturi Ram Prasad	Materials Today:Proceedings	2020	47	8	Aditya College of Engineering Technology
Synthesis, structural, dielectric and magnetic properties of cobalt ferrite nanomaterial prepared by sol-gel autocombustion technique	Tulu Wegayehu Mammo, N. Murali, Ch VijayaKumari, S.J.Margarette, A.Ramakrishna, RaghavendraVemuri, Y.B.Shankar Rao, K.L.Vijaya Prasad, Y.Rama Krishna, K.Samatha	Physica B: Physics of Condensed Matter	2020	113	22	Aditya College of Engineering Technology

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	0	25	11	7
Presented papers	39	4	0	0

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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
DENTAL CAMP	LAKSHMI SAI DENTAL CARE KAKINADA	2	181
DISTRIBUTION OF GROCERY KITS TO NEEDY	LOVE TO SERVE FOUNDATION	2	109
ENERY DRINKS AND FOOD DISTRIBUTION TO FRONT WARRIORS	ZEAL FOUNDATON	2	123
7 DAY CAMP AT ANURU VILLAGE	AANURU PRIMAY SCHOOL	9	297
BLOOD DONATION CAMP	GGH KAKINADA	12	323
ESSAY WRITING AND QUIZ ON PEACE AND DEVELOPMENT FOR PHARMACY STUDENTS	ADITYA COLLEGE OF PHARMACY	3	137
ESSAY WRITING ON NATIONAL UNITY FOR ADITYA DEGREE COLLEGE	ADITYA DEGREE COLLEGE	3	124
PLANTATION OF SAPLINGS AT AANURU PANCHAYAT	AANURU PANCHAYAT	2	35
BLOOD DONATION CAMP	SIDDHARTHA BLOOD BANK	9	189
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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
BLOOD DONATION CAMP	APPRECIATION	GGH KAKINADA	323
ENERY DRINKS AND FOOD DISTRIBUTION TO FRONT WARRIORS	KIND HANDS	ZEAL FOUNDATION	123
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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites

			1	25
SAMATVA-Debate on "How effective are Feminist movement"	Aditya College of Engineering and Technology	SAMATVA-Debate on "How effective are Feminist movement"		
Awareness program on Crimes against Women	Aditya College of Engineering and Technology	Awareness program on Crimes against Women	2	60
Debate on "Fight on abuse	Aditya College of Engineering and Technology	Debate on "Fight on abuse	2	50
NATIONAL AIDS CONTROL PROGRAMME (NACP)	PEDDAPURAM PANCHAYAT	AWARENESS RALLY ON AIDS DAY AT PEDDAPURAM	3	256
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3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
NIL	NIL	NIL	0
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Industrial Visit	Learner	All India Radio, Visakhapatnam	29/02/2020	29/02/2020	45
Industrial Visit	Learner	All India Radio, Visakhapatnam	02/03/2020	02/03/2020	93
Industrial Visit	Learner	Dr. Narla Tatarao Thermal Power Station	26/08/2019	26/08/2019	58
Industrial Visit	Learner	Ultra techRMC vijayawada	15/02/2020	15/02/2020	37
Industrial Visit	Learner	All India Radio, Visakhapatnam	13/02/2020	13/02/2020	45
Industrial	Learner		26/02/2020	26/02/2020	48

Visit	Doordarshan HPT, Visakha patnam				

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
APPSSDC	17/04/2018	SKILL DEVELOPMENT AND CERTIFICATION PROGRAMS	439
TCS	01/08/2017	ONLINE EXAMINATIONS	1400
DIZITIVEIT SOLUTIONS	19/08/2016	SKILL DEVELOPMENT, INTERNSHIPS AND GUEST LECTURES	146
EDGATE TECHNOLOGIES	17/10/2015	LAB ESTABLISHMENT	62
UiPATH ACADEMIC ALLIANCE	27/07/2019	SKILL DEVELOPMENT AND CERTIFICATION PROGRAMS	112
REVANTH SOFTWARE SOLUTIONS PVT. LTD	30/07/2019	SKILL DEVELOPMENT, INTERNSHIPS AND GUEST LECTURES	65
AUGMENTIK SOFTWARE PVT. LTD	10/08/2019	SKILL DEVELOPMENT, INTERNSHIPS AND GUEST LECTURES	132
CENTRE OF EXCELLENCE IN MARITIME AND SHIP BUILDING	28/02/2020	SKILL DEVELOPMENT, INTERNSHIPS AND GUEST LECTURES	0

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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
150	147.1

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
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 Wi-Fi OR LAN	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Newly Added
Class rooms	Existing

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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
ECAP	Fully	3.0	2017

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	45617	15400000	928	318621	46545	15718621
Reference Books	5675	2431260	209	94050	5884	2525310
e-Books	0	0	1443	1693607	1443	1693607
Journals	0	0	50	112800	50	112800
e-Journals	0	0	2	98002	2	98002
CD & Video	1291	0	31	0	1322	0
Digital Database	0	0	1	13500	1	13500

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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. R V Vijaya Krishna	Sensors and Actuators	NPTEL	17/10/2020

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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existin	759	560	23	30	80	7	59	100	0

g									
Added	12	0	0	0	0	0	12	0	0
Total	771	560	23	30	80	7	71	100	0

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

100 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
NIL	Nill

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 incurredon maintenance of physical facilites
80	75.42	115	110.43

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)

The institute maintains a typical operating procedure for the individual personnel's the apt functioning of the infrastructure policies i.e. structural maintenance, transportation, furniture and backup generators during power shortages. Individual maintenance, grievance registers i.e. electrical, sanitation, plumbing, housekeeping are maintained thoroughly so as facilitate smooth functioning of the institution. Any kind of malfunctioning arising within the above mentioned sections are timely reported to the higher authorities for prompt fixture. Office Superintendent chairs because the head of the maintenance section who thoroughly examines all the concerned sections where individual supervisors are appointed for every sector. The supervisor effectively coordinates the workforce, promptly maintaining records of people , floor wise data, files associated with leaves, timings etc. the maintenance head periodically checks for enabling smooth and effective functioning of the related sections. Several in house staff monitors regularly for ensuring strict hygiene discipline sanitation all-round the campus for providing an amiable learning environment. Classrooms, seminar halls, laboratories and staff rooms are periodically maintained by the house keeping department. Each floor is supplied with multiple trashcans. Professional gardeners are employed for enabling greenery all around the campus. Annual maintenance contracts are made for all the departments i.e. Water purifiers, CCTV cameras, Elevators, Air Conditioners for ensuring and Generators for optimal and smooth functioning of the individual components. Additionally to the contract based workers several in house trained technicians, electricians and carpenters render their exceptional contribution to the institution Apart from contract workers, the college has trained in - house electricians and plumbers. Lab assistants under the supervision of the system administrator maintain the efficiency of the college computers and accessories. Parking facility is well organized. It's efficiently maintained by security under the control of security officer. The campus maintenance is monitored through surveillance cameras. Proper inspection is completed and verification of stock takes place at the top of every year. Periodic reporting on requirements of repairs and maintenance are submitted by the HoDs to the administrative office. The wants are collectively processed in

every semester break so on keep things ready for the new semester. Pest control of library books and records is completed per annum by the maintenance department also because the general campus. Estate office manager and his team are involved within the maintenance of infrastructure facilities. This team takes care of the regular maintenance of civil works like furniture repairs, masonry and plaster works, Painting, carpentry, plumbing and house-keeping. The non-teaching staff also are trained in maintenance of laboratory and computer equipment. The Housekeeping office workers take care of the maintenance of rest rooms, approach roads and neatness of the whole premises. Housekeeping services are regularly supervised.

http://acet.ac.in/acet/IT%20Infrastructure/Maintanance%20policy.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	Merit Scholarship	1080	2556050
Financial Support from Other Sources			
a) National	Jagananna Vidya Deevena	2210	120615600
b)International	NIL	0	0

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

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
ICT/Computing skills-AWS cloud computing training	06/01/2020	154	Mr. Md. Shaifu Zama Techinal HUB, Surampalem 7729990360
Soft skills-Training on APTLOGIC	08/07/2019	175	Mr. K Bharath Kumar Techinal HUB, Surampalem 9346445450
Language and communication skills- A one day programme on English communication-Employability skills	15/07/2019	70	Ms. S Sailaja GIET Rajahmundry 9963394773
ICT/Computing skills-Python Programming	14/10/2019	153	Mr. R Sudhir Techinal HUB, Surampalem 9951722111
Life skills-AYUSH-Health and Hygiene	16/11/2019	140	Dr.Ch S Raju 9848291099 Ratnaraju Hospital

					Samalkot	
Life skills-Manavatha-First aid techniques	09/12/2019		131		Dr.Ch S Raju 9848291099 Ratnaraju Hospital Samalkot	
Language and communication skills-Two week STTP on Lets learn Spanish and Hindi	03/02/2020		60		Mr. Saiba Nyampa,6305154552 ACOE, Surampalem Ms U Ramya,8297635920 JNTUK, Kakinada	
ICT/Computing skills-Short term training program on coding skills	10/02/2020		168		Mr. R Sudhir Techinal HUB, Surampalem 9951722111	

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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 passedin the comp. exam	Number of studentsp placed
2019	Awareness Program on Common Aptitude Test(CAT)	149	Nill	7	Nill
2020	Awareness Program on Graduate Aptitude Test in Engineering (GATE)	179	Nill	10	Nill
2019	Awareness Program on GRE and TOFEL	228	Nill	0	Nill
2019	Orientation session on Career Planning for Engineering Graduates	Nill	376	Nill	175
2019	Development of career strategies and management	Nill	395	Nill	226

2019	Orientation session on "Andhra Pradesh Public Service Commission (APPSC) exams	50	Nill	21	Nill

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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
0	0	0

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
Hyundai Steel	149	10	Thomson Reuters	517	2

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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	Depratment graduated from	Name of institution joined	Name of programme admitted to
2020	1	B.Tech	Civil	Rajeev Gandhi College Rajahmundry	MBA
2020	1	B.Tech	Mech	Indiana university Bloomington, USA	MS
2020	1	B.Tech	Mech	IRA A.Fulton school Engineering, USA	MS
2020	1	B.Tech	ECE	NIT, Tadepalli gudem	M. Tech
2020	1	B.Tech	EEE	SP Mandalis Prim L.N Welingkar	MBA

2020	1	B.Tech	EEE	institute, pune	
2020	1	B.Tech	EEE	Lenora College of Engineering Rampachodavaram	M. Tech
2020	1	B.Tech	EEE	Lenora College of Engineering Rampachodavaram	M. Tech
2020	1	B.Tech	ECE	NIT PATNA	M. Tech
2020	1	B.Tech	Civil	NICMAR PUNE	M. Tech
2020	1	B.Tech	Civil	University of Cassino & Southern Lazio, Italy	MS

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

Items	Number of students selected/ qualifying
GATE	2
CAT	1
Any Other	35

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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
Republic Day Sports Games 2020	National level	141
Dance	National level	200
Singing	National level	100
Fashion Show	National level	80
Street Play	National level	130
Skit	National level	80
Elocution	National level	50
Paint	National level	30
Standup comedy	National level	105
Instrumental	National level	250

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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	KLEF SPORTS FEST 4x100 METERS FIRST Place	National	1	Nill	18P35A0352	M MURALI KRISHNA
2019	KLEF SPORTS FEST LONG JUMP SECOND Place	National	1	Nill	18P35A0352	M MURALI KRISHNA
2019	Best physique (Gold medal)	National	1	Nill	16P31A0135	PRATYUSH KUMAR
2019	Classical dance(shield)	National	Nill	1	18P31A0478	K.TANMAI SREE
2019	Singing(shield)	National	Nill	1	17P31A04H0	T.MAITHREYI
2019	Weight lifting(Bronze medalist)	National	1	Nill	17P31A0411	D JOHN PETER JOSHI
2019	100 METERS SECOND Place	National	1	Nill	18P35A0352	M MURALI KRISHNA
2019	200 METERS SECOND Place	National	1	Nill	18P35A0352	M MURALI KRISHNA
2019	Tripple jump third place	National	1	Nill	18P35A0352	M MURALI KRISHNA
2019	KLEF SPORTS FEST 100 METERS FIRST Place	National	1	Nill	18P35A0352	M MURALI KRISHNA
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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 Students of Aditya College of Engineering and Technology are enlightened to strongly believe in enhancing leadership skills and teamwork. Hence the students are encouraged to be representatives in various forums that are

empowered to take decisions and plan events. All the departments have a student committee of various associations and social clubs. In consultation with the principal, the head of the departments, faculty, and students of the respective departments choose the main committee coordinators. Students Council: Students council could be a body that represents students of all departments and is coordinated by two senior faculty members. The principal discusses the educational issues with the council members twice a semester and recommends corrective actions to support the suggestions and feedback. Clubs and Associations: Students are adequately empowered through the various clubs and associations within the Institution. These clubs were active under the coordination of senior faculty. Active clubs and associations are Eco club, Community club, Health club, Language club, ICC, Alumni association. Eco club: Eco Club has been working tirelessly to feature its contribution to boosting the challenging environmental conditions. The coordinators and club members have undertaken various environmentally-friendly activities like awareness of the damage caused by plastic usage and the distribution of tree saplings. Community club: The community club focuses on improving harmony among students of assorted Indian cultures. Academic Committee, Anti-Ragging Committee, Canteen Committee, Career Counselling Committee, Cultural Committee, Ethics Committee, E-Resources Committee, Hostel Committee, Internal Complaints Committee (ICC), Library Committee, Publication Committee, Purchase Committee, Sports Committee, Transport Committee, Website Committee is functioning in the Institution. It nurtures the students towards their career improvement, personal development, and well-being and conducts an awareness program on literacy. Language club: This club focuses on speaking events, debating, extempore speaking, elocution, and jamming. Faculty and students from various states take initiation to show their language to unknown ones under this club. Health Club: The club is determined to form awareness regarding HIV by conducting awareness camps on the importance of food and nutrition, especially in rural areas, collecting blood sampling to see the blood type of every student for future blood donation requirement database. ICC: ICC has been constituted to empower and safeguard the rights of female faculty and students. ICC works to push gender sensitivity within the college and conduct diverse programs to teach, sensitize both male and feminine members and produce a harmonious atmosphere on the campus. It works for the welfare of the female students towards preparing them into competent professionals to require up more significant challenges within the academic sphere. Alumni Association: Discusses the career opportunities in the real-world competition. The committee will arrange programs on Women's Day and other times, as needed. Student grievance redressal: Grievances of students about academics and personal grievances within campus and hostel is also addressed to move of the department.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

634

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

One Alumni Meet Conducted and organized three interactive sessions with the

students .

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 administrative structure at Aditya College of Engineering and Technology (ACET) includes the Governing mechanism with inculcating various practices for decentralization and participative management headed by Chairman, Vice-Chairman, Principal, Deans, Head of departments, Committee Coordinators, Staff in-charges, Lab in-charges, System Administrators, Student Proctors and Class Representatives to promote quality improvement in all fields with excellence. In execution, almost in all functions, the administrative setup functions with a decentralized decision making at all levels. Next level the Principal is the Head of the Institution and he efficiently proceeds and ensures the smooth conduction of all administrative and academic activities. • The Principal periodically convenes meetings with the department Heads, faculty members. The management ensured decentralization by creating Deans to help the Head of the institution in day-to-day activities at the top of a multi-tier system of administration with HoDs, lab in-charges etc., down the ladder on the academic front. • Along with Principals, the HODs and faculty are encouraged to give suggestions that help in the growth of the Institution. • Faculty members are made part of decision making process at all levels. They are given a chance to present their views and suggestions by making them as members of various committees in college like Career Counseling cell, Entrepreneurship Development cell, Grievance Redressal cell, etc. • There is freedom for all faculty members to express their thoughts and freedom to do various research related activities. • In addition, the institution has constituted several committees with faculty as in-charge of those committees to groom leadership at the faculty level. The institution has various committees which are headed by various senior faculty members and every faculty member are at least a part of one or more committees.

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
Research and Development	• CSE and MECH departments are recognized as Research Centers by the JNTUK, Kakinada. • Faculty members are encouraged to undertake research activities by providing incentives to attend Conferences. • Faculty members are rewarded with cash incentives for publishing papers in reputed Journals, Books, Books Chapters, Filing Patents, Research Grants and Consultancy works.
Library, ICT and Physical Infrastructure / Instrumentation	• In view of the latest development and future needs the Library is well equipped in terms of the number of Books, CDs, Project Reports Online journals. • The college has central as well as departmental library to provide

	key resources to augment the teaching-learning process. • Library functions on week Days from 8.00 A.M. to 6.00 P.M. • The reading room with a capacity of 200 students is available. • Exclusive reference section is also available. The Institute has adequate number of ventilated classrooms, Laboratories, Smart Classrooms, Common rooms, Seminar halls, Conference hall, Computer Labs, Research Centers, HOD cabins, Staff cabins and Rest rooms.
Examination and Evaluation	• College follows the continuous evaluation as per the guidelines given by the JNTUK, Kakinada. The weightage has been given for the MID 1 2 assessments and end semester examinations. • MID exam question papers are prepared based on Course Outcomes (COs) and Blooms Taxonomy Levels to access the different learning levels of students. • Evaluation is done by course handled faculty. • The corrected answer scripts are distributed to the students within three working days after the exam and answers are discussed with students in the class room. • The evaluation of semester end examination papers is carried out by the University.
Teaching and Learning	• The teaching Learning process is periodically reviewed through HoDs Meeting with the Principal, Faculty Meeting with HoD and also through the feedback from the stakeholders. • The institution adopts latest technologies and facilities for effective teaching. • Each department is outfitted with ICT enabled class rooms in order to make teaching more flexible. • MOODLE server is established for Learning Management System (LMS) ? Learning resources like NPTEL Videos/ PDFs are available to the students ? Usage of innovative teaching methodologies ? Student counseling Pass percentage ? Student feedback ? Project guidance ? Project based learning through value added clubs (Robotics club, automobile club, entrepreneurship club etc) ? Guidance in Career-orientation ? Remedial and bridge courses ? Pre-placement training ? Initiative to arrange more campus placement drives qualitatively quantitatively ? Motivation towards Research for staff and students ? Assistance to students to get admission

	for Higher Education. ? Conducting Skill Development training programs (APSSDC) ? Periodical evaluation of results and counseling the students as well as faculty ? Conducting extra classes for the slow learners ? Learning and upgrading knowledge through certification courses conducted by the in-house training sessions.
Curriculum Development	• The syllabus is prescribed by affiliating University JNTUK, Kakinada. There is no freedom to change the syllabus as an affiliating College, but the students have the freedom of choosing elective subjects from the list of courses prescribed by the University. However, the curriculum gaps are identified by the academic committee and required new topics are delivered by conducting Certificate Courses, Guest Lectures, Seminars and Workshops.
Industry Interaction / Collaboration	• The institute has signed MoUs with various industries and organizations. • Faculty and students are encouraged to go for study tour to visit the nearby industries for better exposure through close interaction with industry experts. • Many Guest Lectures are conducted for the students by inviting eminent corporate personalities to enhance student knowledge and to give an industry exposure. • For improving the technical skills of students, the Institute organizes workshops and hands on training programs on advanced technologies.
Admission of Students	Admissions are made in two ways – Convenor Quota, Management Quota in the ratio of 70:30. Convenor quota students are admitted into both Under Graduate and Post Graduate programs through a common entrance conducted by the State Government (EAMCET, ECET, PGCET, ICET). Management quota seats are filled by inviting applications from the deserving candidates and filled on the basis of merit and reservation.
Human Resource Management	The Institute follows the guidelines of AICTE and JNTUK for recruiting both teaching and non teaching faculty. The institution has a mechanism of notification in leading news papers and faculty plus of regular posts and conducting interviews. The Institution provides service benefits like

	Employees Provident Fund (EPF), Group Insurance Policies, and incentives for attending Faculty Development Programmes, seminars, workshops to enhance the Teaching Learning process and upgrade their skills by learning the latest technology.

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

E-governace area	Details
Student Admission and Support	ECAP software is used for conveying information to students and parents from day one of admission. Student attendance, marks obtained in the sessional and semester end examinations are posted in the ECAP.
Examination	The Institute is having a separate Examination cell which monitors both internal and external examinations. The examination cell is responsible for arranging the seating plan, allotting invigilators, collecting material from the University and submitting the answer scripts back to the University. The Cell is fully equipped with computers, reprographic facilities and Internet connection. The examination cell posts the internal marks, attendance in the University portal.
Planning and Development	• The Principal recommends the budget of the departments and conducts review meeting on budget utilization of the previous year. • The Institute and Department calendars are prepared by considering the academic / co-curricular / extracurricular activities for the forthcoming semester/academic year. • In the meeting with IQAC and Head of the Departments, the Principal approves the Institution and Department academic calendar. • The Principal along with IQAC and HODs conducts a meeting to discuss on feedback analysis report of stakeholders and suggests corrective measures towards improvement of the Institution.
Administration	ECAP software tool is used for all the administrative purposes to maintain record of employees and students.
Finance and Accounts	Students are allowed to pay tuition fee, examination fee, view payment status through ECAP online software.

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.Pandiri Jaikishan	Workshop on IMPACT WeeK 2019,Sep 18-26 2019,NEWDELHI	Nill	7500
2019	Mrs.D.Sravani	RACPCL-2019 ,13-15 July 2019, AU, Visakhapatnam	Nill	7500
2020	Dr.Vemuri Raghavendra	ICAPEC-2020,27-28 February 2020,C.R.Reddy College, Eluru	Nill	7500
2020	Mr.R. Anil Kumar	FDP on IPR Technology Transfer(6-7 Feb 2020),MLRIT, Hyderabad, Telangana	Nill	3000
2020	Mr.Satya Surya Prakash Vinnakota	FDP on Pre-Incubations Incubation Management (6-7 Feb 2020),MLRIT, Hyderabad, Telangana	Nill	3000
2019	Dr. Regella Venkata Satya Lalitha	FDP on Entrepreneurship Development Program (6-7 Feb 2020),MLRIT, Hyderabad, Telangana	Nill	3000
2019	Dr.Tirumala Sampath Karthik	FDP on Design thinking innovation (6-7 Feb 2020),MLRIT, Hyderabad, Telangana	Nill	3000
2019	Dr.Pramod Kumar	ICPCM-2019,12-14 Dec 2019,NIT,Rourkela	Nill	8000
2019	Dr. Nakka Rajeswara Rao	APSC-2019, 28-30 Nov 2019, Dr.B.R.Ambedkar University, Srikakulam	Nill	3000

2019	Dr.Vemuri Raghavendra	APSC-2019, 28-30 Nov 2019, Dr.B.R.Ambedkar University, Srikakulam	Nill	3000

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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)
2020	Workshop on Solar powered Electric Vehicle Design using Matlab/Simulink	Nill	11/03/2020	12/03/2020	27	Nill
2020	Workshop on Signal Analysis on Transform techniques	Nill	02/03/2020	03/03/2020	51	Nill
2020	Seminar on Energy management in industries	Nill	17/02/2020	17/02/2020	53	Nill
2020	Faculty Development Programme on Security issues Challenges of Internet of Things (IoT)	Nill	10/02/2020	15/02/2020	45	Nill
2020	Seminar on Tools for Scientific Communication and Effective	Nill	05/02/2020	05/02/2020	17	Nill

		Teaching				
2020	Nill	A Three Days Workshop on Training on Auto CAD tools	30/01/2020	01/02/2020	Nill	12
2020	Seminar on Next generation Techniques in wireless c ommunicati on	Nill	08/01/2020	08/01/2020	51	Nill
2020	Seminar on Deep Learning and its Ap plications	Nill	03/01/2020	03/01/2020	47	Nill
2019	Workshop on Image processing pattern re cognition	Nill	27/12/2019	28/12/2019	49	Nill
2019	Seminar on Strucural Audit For Structural Safety	Nill	13/12/2019	Nill	27	Nill

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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
DESIGN FOR MANUFACTURING AND ASSEMBLY	1	21/05/2020	23/05/2020	3
LABORATORY SAFETY MANAGEMENT	1	23/09/2019	27/09/2019	5
PRATICAL ASPECTS OF FINITE ANALYSIS USING ABAQUS	1	18/04/2020	24/04/2020	7
FACULTY DEVELOPMENT PROGRAMME ONLINE ON	1	27/04/2020	02/05/2020	6

SCILAB				
FDP-STUDENT INDUCTION (AICTE) COIMBATORE	2	17/06/2019	23/06/2019	7
CONTROL AND AUTOMATION	9	18/11/2019	22/11/2019	5
ROLE OF TEACHERS IN QUALITYENHANCEMENT AND ACCREDITATION	1	11/05/2020	18/05/2020	8
ARDUINO ROBOTICS	3	27/10/2019	01/11/2019	6
RECENT ADVANCES IN HIGH VOLTAGE ENGINERING AND ITS APPLICATIONS	1	30/12/2019	11/01/2020	13
RECENT RESEARCH TRENDS IN SIGNAL PROCESSING	2	15/10/2019	19/10/2019	5

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
0	185	0	248

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
EPF, Group Insurance, Subsidized Lunch Facility, Free Transport	ESI, EPF, Subsidized Lunch, Free Transport, Accident insurance policy for drivers	Merit Scholarship

6.4 – Financial Management and Resource Mobilization

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

The Institute has a mechanism for internal and external audit to ensure financial compliance. The Institutional accounts are regularly audited. The observation of the auditors if any are immediately corrected / rectified. Internal Audit: The internal audit is an ongoing continuous process. Qualified Internal Auditors from external resources have been permanently appointed and a team of staff under them do a thorough quarterly basis check and verification of all payments, receipts journals vouchers of the transactions cash books, ledger account review that are carried out in each financial year on an accrual basis system. External Audit: The external auditor appointed by the college performs audit of the financial statements of the college. The financial records are audited by qualified chartered accountants after the end of each fiscal year is certified income expenditures, balance sheet and prepared notes

to accounts are certified.		

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Nil	0	NA

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6.4.3 – Total corpus fund generated

0

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	JNTUK, Kakinada	Yes	HoDs, Professors, Associate Professors
Administrative	Yes	Through Charted Accountant	Yes	Senior Administrative Officer

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

1. Orientation Program for both parents and students at the beginning of the Programme. 2. Department wise Parents meetings are conducted to discuss the academic performance of the students/wards., Students proctoring system. 3. Parents from industrial background help students in project, in plant training and industrial visit. 4. Feedback is received from parents regarding infrastructure and institutional development.

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

1. All the supporting staff members are trained about different office automation software. 2. The technical supporting staff members are motivated to go for higher studies to upgrade their knowledge and qualification. 3. Stress management program is conducted to enhance the mental strength of the staff.

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

1. Trying to implement all the suggestions given by the peer team, 2. Activity based Teaching and Learning Methods, Project Exhibition 3. MOOCs and NPTEL certification course for both faculty and students is made mandatory. 4. APSSDC Training for students are conducted regularly on emerging technologies. 5. Training and placement activities are enhanced by arranging various training Courses like aptitude and soft skills.

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Short Time Training program on Effective Teaching organized by NITTTR, Kolkota	10/06/2019	15/07/2019	19/07/2019	52
2019	Awareness program on preparing online AQAR	10/06/2019	22/07/2019	22/07/2019	52
2019	Webinar on Writing Research proposal	10/06/2019	24/07/2019	24/07/2019	122
2019	Inculcating research paper writing and uplifting coding skills in Faculty	10/06/2019	09/12/2019	14/12/2019	40
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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
SADANA – Guest lecture on leadership skills and building confidence in believing themselves	14/10/2019	14/10/2019	50	0
Awareness program on PoSH-The What, Why How	19/10/2019	19/10/2019	36	24
SAMATVA – Debate on How effective are	10/12/2019	10/12/2021	25	0

feminist movement				
Debate on Fight on Abuse	21/06/2019	21/06/2019	27	23
JAGRUTHI - Quiz Program on women in science	09/07/2019	09/07/2019	28	0
Awarness program on mental health and emotional balance	06/08/2019	14/03/2020	34	33
Awareness on crime against women	14/08/2019	14/08/2019	33	27

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources

The institution has installed solar panels with a total capacity of 500 KW on the rooftops. The installed solar panels are the main sources of renewable energy in the campus. Total power generated from the solar panels during June 2019 to May 2020 is 533679 units. The institution consumed around 60 percent of the energy produced by the solar panels. 40 percent of the energy produced is directed to the state electricity grid.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Scribes for examination	Yes	1
Ramp/Rails	Yes	1
Any other similar facility	Yes	1
Physical facilities	Yes	1
Provision for lift	Yes	1
Braille Software/facilities	Yes	0
Rest Rooms	Yes	1
Special skill development for differently abled students	No	0

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

2020	1	1	26/05/2020	1	Distribution of grocery to Needy	Pandemic help	109
2020	1	1	17/04/2020	1	Energy drink and food distribution to Frontline Warriiors	Pandemic service	123
2020	1	1	03/03/2020	7	7 Day camp at Anuru Village	Social Responsibility	297
2020	1	1	28/01/2020	1	Blood donation camp	Social service	323
2019	1	1	30/11/2019	1	Awareness Rally on AIDS at Peddapuram	Social Awareness	256

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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)
A handbook on code of conduct for Students	07/06/2016	It is mandatory for the students of the college to adhere to the rules - The code of conduct – framed by the institution mentioning the responsibilities of the students in the personal and academic matters. It is a reflection of ethical values to be absorbed by the students.
A handbook on code of conduct for teaching and Non-teaching staff	01/06/2016	A list of guidelines was framed as code of conduct compiled from the norms followed by AICTE, JNTUK, Women Rights, and fundamental Rights. The guidelines provide institutional values and principles. they were set as a benchmark rules for the wellbeing of the Institution, Teaching and Non-Teaching fraternity.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Orientation for faculty: How to be the best teacher	07/09/2019	07/09/2019	68
Orientation for Non-Teaching: Proper Interaction skills	14/09/2019	14/09/2019	28
Orientation for I B.Tech students: How to survive in the society	07/10/2019	07/10/2019	311
Womens Day	08/03/2020	08/03/2020	124
Heritage Day	20/03/2020	20/03/2020	78
Teachers Day	05/09/2019	05/09/2019	228
Dusserah	08/10/2019	08/10/2019	175
International Girl Child Day	11/10/2019	11/10/2019	154
Rashtriya Ekta Diwas	01/11/2019	01/11/2019	116
International students day	17/11/2019	17/11/2019	328

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

Generating power from solar panels a renewable source that are installed on rooftop of building
The waste water is supplied to plants and water recharging points through construction of water channels
Water pits were built for conservation of Water Water sprinklers are used to save water to water the plants.
Solid waste and E- Waste was sold to the scrap industry that recycles the waste without polluting the environment.
Vermicomposting was produced with the food collected from the canteen and the withered leaves in the campus to use as manure for the plants in the ambiance.
Conducted programs to create awareness on environmental protection Plantation program at Z.P.P. High school Nayakampalli. Solar plant demonstration located at campus to create the awareness about usage of solar energy among the students Program on soil pollution control to create awareness on soil protection among students.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice I 1. Title Encouraging faculty to enhance knowledge through SWAYAM-NPTEL / online courses 2. Objectives The institute main goal is to increase the number of faculties enrolling online courses. The faculty will get full registration fee on competition of the course. NPTEL collaborates with industry to create courses that will assist everyone in gaining relevant knowledge and developing relevant skills in their field. • To encourage faculty

to enhance advance technological knowledge through NPTEL/online courses. • To impart life skills, develop the personality and communication skills. • To facilitate incorporation of reading materials and videos to balance classroom teaching. • To educate and raise awareness among the faculty. 3. The context In the present scenario, there is a dire need of well qualified and skilled employees to perform the tasks. There is a need to enhance the subject knowledge of faculty to deliver the content effectively to students. The faculty members had the choice to select the course of their own interest, either related to their course or in new domain. NPTEL offers open online courses along with certification in various engineering disciplines, sciences, humanities, management and research which provide appropriate experience to tools and technologies. This ease flexibility for the faculty to prioritize the time and work at one's own pace. AICTE recognizes advanced level NPTEL courses as FDPs for engineering colleges due to inadequate opportunities available for faculty to attend face-to-face fulltime training programs. 4. The practice Swayam-NPTEL local chapter started in the year 2015.The faculty members and the students are encouraged to do online courses. NPTEL collaborates with industry to create courses that will assist everyone in gaining relevant knowledge and developing relevant skills in their field Because there is such a large gap between education pattern and industry requirements. Successful faculty get course certification certificate. Based on merit faculty receive Elite, Silver, Gold and Elite Gold EliteGold2which increases the passion of the faculties to join up for next courses that helps the growth of the college. One faculty member is nominated as NPTEL course coordinator. All information regarding new courses and registration will be maintained by the coordinator. 5. Evidence of Success The number of faculty registration and course completion is increasing year by year.Table1 gives information regarding the academic year with the faculties completed and registered the courses 6. Problems Encountered and resources: • The NPTEL courses are offered from July to October and January to April every year and academic year starts from June to December and January to April. • Faculty will face hectic work load because NPTEL and academic calendar starts at a time. Our faculty had delivered good academic results and NPTEL results also. Best Practice 2 1. Title Go Green 2. Objectives • Tree plantation. • Use of renewable energy • Maintaining biodiversity • Energy optimization for enhancing energy utilization. • Creating awareness to students on environment. • Carbon neutrality and reducing fossil fuels that affect environment. • To involve students in safeguarding the environment. 3. The Context ACET College campus extends as a lush green and extensive oxygen rich and echo friendly place of quality learning at Surampalem. Globally change in climate and reduce of water levels are the most pressing issues. These issues will determine the progress of future generations. Constant steps to be taken continuously to conserve and preserve our environment. Awareness and importance to be created in students. The contribution of students in programmes will help us to preserve the environment.ACET had been pioneer in adopting required initiatives to infuse the spirit of environment awareness among students and faculty. By inserting environmental awareness in students that helps for the development of the society. The Eco friendly campus will give message to the students that protecting nature is protecting human kind.Continous green practices are followed then the life can be enhanced. 4. The Practice: The following inventiveness has been taken in the college to give to the noble reason of consciousness of environment and its sustainability. Plastic Ban in the campus: The main goal of the programme is decrease plastic pollution in the college. The main focus on reducing and eliminating plastic bottles, straws and food packaging. Students and faculty are advised to drink RO purified water in the college rather than water bottles. The faculty and advised to bring copper/steel bottles replacing plastic water bottles. Waste management: Aditya College of Engineering Technology has devised a method for managing waste created in the campus reuse, reduce and recycle are the basic strategy

employed. Solid and liquid waste generated by college is biodegradable and non-biodegradable in nature. Hazardous waste is not generated in the campus Energy conservation: •Awareness is created among the students and faculty. •Display boards are placed at every floor, staff room and class rooms. •The solid waste is utilized for vermicomposting. •Recycling of waste water and using it for gardening helps to reduce consumption of water. •Water conservation facilities are deployed across the campus to harvest rain water, monitor water levels in tanks and recycle the waste water •Energy efficient equipment like LED bulbs are in application to reduce the consumption of electric power. • Bicycles are allowed as a means to commute inside the campus for the staffs, students and visitors. • E-vehicles are used for internal transport for visitors and parents. • Every year tree plantation drive is conducted by Eco clubs and NSS in and outside of the campus. Use of Renewable energy: • Aditya college of Engineering Technology have installed solar power generation plant in the year 2018. • The plant produces 500kW power to meet college needs and additional power is send to Andhra Pradesh State Electricity Board (APSEB). • It has significantly reduced the requirement of regular electricity supply. • Awareness programmes are being organized frequently on generation and conservation of energy obtained from various sources. Carbon neutrality: • Well established and well maintained gardens in the campus. • Greening of college campus to reduce the carbon foot print. • Printing is done both sides of the paper • Uses of plastic utensils are discouraged. • E-vehicles are used for internal transport. • Staffs are encouraged to travel by college staff bus. • Notices and circulars are sent through E-mail. 5. Evidence of Success: • ACET campus consists of wide variety of Ayurvedic Tress, Flower and design plants. Nearly 500 plants of ayurvedic, 1000 varieties of flower plants, 1400 varieties of trees and 1500 design plants and trees are available. • The institute is wheeling the power generated from the rooftop solar panels to the distribution to the grid. The units shared with the grid are reduced from the actual consumption of power supply. • The electricity bill is reduced every year from the date of installation. • ACET-NSS unit was awarded Best service for the poor and needy. • ACET Eco-club - Eco corps held a Clay Idols- Go Eco Friendly program to commemorate the Vinayaka chavithi. The clay Ganesh idols were made by Eco Corps and other faculty members and handed to the faculty. • Every year plantation of saplings in the campus and nearby village is conducted by the college NSS. • A recharge pit harvested the rainwater coming from the top roof of the Visveswaraya building. Similarly, a rectangular water pit has dimensions length of 29 ft, and a width of 9 ft. • The wastewater from the drinking water points is directly drained through the waste pipe connected to the inner garden area, and the wastewater from the R.O. plant is utilized for the outer garden area. Approximately 1, 12,000litres per day of R.O. reject water was sent to the large exterior garden with more mango trees. • There are two tanks (open ponds) on campus where the rainwater from various parts of the campus is collected and stored. Rainwater from building rooftops is also channeled into these open ponds. Aerators present in ponds maintain suitable dissolved oxygen for the purpose of aquatic life. • The capacity of the overhead tanks at Visveswaraya block and SIR C.V.Raman block are 90,000 liters and 45,000 litres, respectively. • Only reverse osmosis water is available for drinking on campus we have three R.O. units, each with a treatment capacity of 2000 litres per hour. Activities conducted under go green is listed in table1,Data wheeling to grid is given in table 2 and varieties of trees plants are given in table 3. 6. Problems encountered and resources • Lack of awareness among the students Poor availability of eco friendly products • Difficulties in implementing Water conservation projects. • Lack of inherent willingness among students to obey environmental issues-counseling and proctoring students.

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

7.3 – Institutional Distinctiveness

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

1.Makers' Zone The Makers Zone of Aditya college of Engineering Technology is established with a vision to enhance and leverage the innovation skills in multidisciplinary aspects of Engineering as well work collaboratively with harmony to invent, innovate and develop technologies that facilitate the society. From the time of inception of the clubs worked with zeal to reach technocrats motivating, inspiring and imbibing the knowledge of present and future technology, Especially, Robotics and Automobiles, their predominant role in various fields. The zone focuses on interdisciplinary and multidisciplinary projects including Electronics and Communication, Computer Sciences, Mechanical and Electrical and Electronics engineering with an aim to innovate technology for a sustainable development of society. The makers zone is very much involved in designing various working models and simulated models in augmented reality and virtual reality for different types of robots and automobiles that used to carve, pick and place, 3D printing, Driving, Energy saving and many other applications with a motive to make the robots and automobiles available within affordable cost to the users of technology. It conducted various extension activities like research, workshops and expo's and developed apps for operating robots with the help of students and faculty. It is further exercising to collaborate with industries to develop robots and so as to support the workers and make their work easy and automobiles for sustainable environment and cheaper transportation system. The clubs achieved prizes and laurels from various Universities including IITs and other organizations. 1.Green Cover zone – Sustainable Environment Aditya college of Engineering and Technology is reputed for its academics and Placements. It is spread in an area of 180 acres of land amidst the Surampalem village of East Godavari dist. One that is enthralling about the institution is its enchanting ambience and beauty that really makes one so immersed in to it. The institution is committed to maintain an Eco-friendly environment and zero emissions campus. The energy or the power utilized for various purposes is generated from renewable energy source that is the solar panels which are fixed on academic buildings. Battery powered vehicles were introduced which contribute pollution free environment. The canopy of trees, carefully nurtured vegetation and the flora fauna present in the college premises clearly speaks volumes about the sustainable environment Waste management is implemented by following the norms of the government from the collection to disposal of waste keeping in view the bounty of soil and the living environment. Understanding the emergency of scarcity of water, the institution took a major step in conserving the water utilization. The raw water from RO plants, rain water and domestic water that let out in the college is channeled to the gardens and mango groove. The recharge pits helps to store and maintain the water levels underground. The college follows the norms of Swachh Barath and also took initiative to ban single use plastic products with its policy of ban on plastic and restriction on entry of automobiles to maintain a clean, green and healthy environment for sustainable environment.

Provide the weblink of the institution
http://www.acet.ac.in/includes/committees/images/ID/ID19-20.pdf

8.Future Plans of Actions for Next Academic Year

Research and Development activities are to be more strengthened by collaborating with other reputed institutes. Existing research policy is to be refined to improve the quality of publications and also to encourage faculty members to participate in various International platforms by providing financial support in

the form of registration fee and incentives. More departments to be recognized as Research Centers To strengthen the teaching-learning process Students are to be trained exclusively for improving placements in core sectors, and also quality programs are to be initiated towards career guidance, soft skills and curriculum enrichment. Faculty members are to be trained to adopt Outcome based education. Students are to be sensitized towards establishing startups by conducting guest lectures on entrepreneurship and innovation.