



# **SELF STUDY REPORT**

**FOR**

**2<sup>nd</sup> CYCLE OF ACCREDITATION**

**ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY**

**ABD ROAD, ADITYA NAGAR, SURAMPALEM, GANDEPALLI (MANDAL)**

**533437**

**[www.acet.ac.in](http://www.acet.ac.in)**

**Submitted To**

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**BANGALORE**

**February 2022**

# 1. EXECUTIVE SUMMARY

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## 1.1 INTRODUCTION

We started our journey in 2004, we are currently permanently affiliated to JNTUK, and got **accredited in cycle 1 with a B grade**. We are working on a lot of quality initiatives and doing our best to be in line with the current educational trends and requirements like NEP and OBE. As a part of this process, we are working towards **achieving an A grade in cycle 2**. Along with this, we are also working towards getting NBA accredited.

### Vision

**To induce higher planes of learning by imparting technical education with:**

- International standards
- Applied research
- Creative Ability
- value-based instruction and to emerge as a premier institute.

### Mission

**Achieving academic excellence by providing globally acceptable technical education by forecasting technology through:**

- Innovative Research And development
- Industry Institute Interaction
- Empowered Manpower

## 1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

### Institutional Strength

1. Good physical and advanced laboratory infrastructure.
2. Effective teaching and learning processes
3. Motivated faculty and staff
4. Effective mentoring and proctoring systems
5. Effective curriculum implementation through structured action plans
6. Conduction of value-added courses to enhance employability
7. Teachers' quality is monitored and maintained via online feedback collected from stakeholders.
8. Orientation/induction programs for newly appointed teachers
9. Special tutorials for bridging the knowledge gap
10. All classrooms are ICT- enabled.
11. Duly constituted research committee in place
12. Well thought out research incentive policy in place

13. Adequate library resources, including e-resources
14. Optimal speed Wi-fi enabled campus
15. Well maintained, clean, green, and ambient campus
16. Recognized NSS unit.
17. Yearly self-appraisal of faculty in place

### **Institutional Weakness**

1. Low consultancy and industrial interaction
2. Limited PG and inter-disciplinary courses
3. Limited exposure and experience of faculty to industry
4. Limited networking with IITs, NITs, IISc and other premier institutes
5. Limited academic flexibility, being an affiliated institute
6. Relatively low PG admissions
7. Predominantly conventional pedagogical approaches still in use
8. Budgetary provision for research activities not in place
9. Very few externally funded research projects
10. Advanced software facilities need to be strengthened
11. Very low UG to PG student progression
12. Development of second level leadership needs to be encouraged

### **Institutional Opportunity**

1. Attainment of Autonomous status
2. Enhancement of research capabilities and infrastructure
3. Initiation of need based academic and skill based programmes
4. Participation in National and International collaborations
5. Spearhead the economic development of the region
6. Blended learning using e-resources to be enhanced
7. Feedback on curriculum delivery from other stake holders needs to be used effectively
8. Teachers need to attend more number of workshops, conferences and symposiums
9. Need to explore the possibility of industry funding for research projects
10. Inter-institutional library networking may be strengthened

### **Institutional Challenge**

1. Seeking external funding
2. Retaining and attracting senior qualified faculty
3. Upgrading research facilities keeping pace with technological advancements
4. Motivation for quality research and publications
5. Enhancement of quality of placement of students

## 1.3 CRITERIA WISE SUMMARY

### Curricular Aspects

The Academic Committee's primary responsibility is to serve as a conduit for communication between students and faculty. This committee's goal is to keep students aware of their academic standards while also reducing inhibitions. It serves as a forum for teachers and students to interact on a regular basis. In addition, it organizes academic achievement functions for students in order to recognize their academic excellence. It takes up a lot of space and responsibility for instilling best practices in future student communities for a brighter future.

For each topic, each faculty member creates a detailed course plan that includes the textbook (s), reference book(s), web resource(s), and technological tool(s) to be used. It also includes topics that will be covered outside of the curriculum and will only be distributed to students after the Head of the Department has approved them.

To communicate the subject, new and innovative teaching strategies are used in addition to the traditional lecture style. Learner-centric strategies such as collaborative learning, video lectures, quizzes, group discussions, and so on are used to encourage students' active participation.

Faculty members prepare solutions for mathematical and analytical subjects, as well as assignments and assessments that include previous university problems and other important questions. A periodic review of the syllabus coverage and students' regularity is conducted by the HOD/Dean Academic, who is followed by the principal. Class representatives meet on a regular basis to solicit suggestions for improving the teaching-learning process.

### Teaching-learning and Evaluation

The Institute gets students admitted to different programs from diverse backgrounds and through social reservations defined by the State Government of Andhra Pradesh. The institute has a well-defined mechanism to assess the learning levels of the students. Advanced learners and slow learners are identified, and appropriate measures are taken accordingly. For advanced learners, measures taken are training program, guidance for placements, publication of research papers, etc. Measures like mentoring for academic-related issues and conducting remedial classes- are taken for slow learners.

The teaching-learning process is student-centric, which is made effective by technologically enriching faculty members with the help of various training programs. The teaching-learning process is focused on experiential and participatory learning. The teachers use various innovative teaching methods, a Learning Management System (LMS), and ICT tools to increase the involvement of students in this process. The institute has qualified and experienced faculty as per norms. Faculty members are encouraged to improve their qualifications and to participate in research activities.

The college has given emphasis to implementing reforms in the evaluation process. In the Centralized Examinations and evaluation system, internal examinations are conducted at the central level, and end semester examinations are conducted at the university level. The complete process is transparent and adheres strictly to the academic calendar. A set of Programme educational objectives (PEOs), Programme specific outcomes (PSOs), and Programme outcomes (POs) are formulated for every Programme based on the "outcome-based education" approach. Course Outcomes (COs) are defined for all subjects and mapped with POs and PSOs.

Attainment levels of COs, POs, and PSOs are calculated. Appropriate corrective measures are implemented based on the attainment levels perceived every year.

### **Research, Innovations and Extension**

**ACET is committed to developing research innovations and extension activities by providing research facilities and resources to encourage faculty as well as students.**

We received **67.5128 lakhs** of grants during the last five years from various government agencies like **MHRD, AICTE, MSME, MST, IEL**. We have a strong research background with **31 doctorates** in six programs. Four of them are recognized as research supervisors and guide five PhD students registered with various universities. **published 196** international journals and attended and presented papers at 67 conferences that are indexed by **SCI, Scopus, and UGC**.

We established an innovation eco-system incubation center that develops entrepreneurship skills in young minds and has 7 startups like **Agumentik Software Pvt Ltd, Picshort, Karanam Technologies, Trigid Innovations, etc.** Our innovation center was recognized by the HIBI center from MSME and established LBI under the ASPIRE scheme by MSME and received a grant of **50 lakhs in 2020**. ACET secured a **4-star rating** in the ATAL ranking of Institutions on Innovation Achievements (**ARIIA-2020-21**) under the MoE. We conducted 6 workshops, 25 seminars and guest lectures, and 12 webinars on research methodology, IPR, and entrepreneurship development.

As a part of social responsibility, ACET initiated various services in rural areas under the scheme of SwachhBharat and conducted 52 activities during the last five years. ACET received **7 recognition awards** for its services to society. ACET every year conducts blood donations, plantation, pulse Polio programs, COVID awareness programs. We have received recognition, awards, and appreciation from **GGH, Kakinada, ZEAL foundation Loveto serve foundation**.

ACET working with various reputed organizations and maintains relations to improve employability skills and make students industry-ready. ACET encourages Industrial visits and internship programs to expose students to Industrial environments. To achieve this ACET has 18 MoUs with various pioneers in the industry like **TCS, Redhat etc.** As a part of the industry- readiness ACET encourages students to do professional certifications from AWS, Redhat, Salesforce which are useful to start their career in an efficient and comfortable manner.

### **Infrastructure and Learning Resources**

Aditya College of Engineering & Technology (ACET) has appropriate infrastructure and physical resources, such as classrooms, labs, computer equipment, and so on, in accordance with AICTE regulations, to support the teaching and learning activities. Other than curricular activities, Aditya College of Engineering & Technology supports extra-curricular activities like sports, games, cultural activities, gymnasium, yoga, etc. The sports and games fields cover a total of 10 acres. Athletics, volleyball, and Kabaddi, are just a few of the sports available at ACET. There are indoor (table tennis, chess, caroms) and outdoor shuttle courts, as well as a gymnasium, available.

The library of the college is situated in a place that is easily accessible by all the students and staff. It has an adequate number of terminals to facilitate searching/accessing e-resources, web browsing, and other academic

work. The library also has the facility for downloading/printing materials from various resources. Our library is equipped with modern technology and upgrades whenever a new technology emerges. All the departments of the college have a separate department library with access to the students/staff. Information regarding new arrivals is publicized on the notice board. Our library is automated using software called **E-CAP Library** to automate the library. A library management system (LMS) is an enterprise resource planning system for libraries, used to track items owned, issued and returned. This system enables efficient library administration to cater to user services.

The institution has a good state-of-the-art infrastructure to meet the educational requirements of the students. The entire campus is optically networked between the buildings using the cables for connectivity. In addition, a **Wi-Fi facility is provided in all the buildings.**

The college has built an eccentric atmosphere for educational pursuits. It takes a lot of struggle to have contemporary physical facilities. The maintenance of the building is handled by a distinct department. All departments have distinct protocols for upholding their equipment. The faculty member in charge of each laboratory is accountable for its running. For the repair of unconventional equipment, suitable AMCs are engaged.

### **Student Support and Progression**

The students of Aditya College of Engineering and Technology are adequately represented in various forums that are empowered to arrange events and display their leadership skills. All the departments have a student committee for various associations and social clubs. In consultation with the Principal, the Heads of the departments, faculty, and students of the respective departments choose the main committee coordinators.

The Student Council is 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. Students are adequately empowered through the various clubs and associations within the institution. These clubs are active under the coordination of senior faculty.

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 are functioning in the Institution. It nurtures the students towards their career improvement, personal development, and well-being and conducts an awareness program on literacy.

The Alumni Coordination Cell (registration and functional) contributes significantly to the development of the institution through financial and other support services.

The prestige and pride of our college is the great and marvellous contribution by the alumni through the ACETAWA i.e., Aditya College of Engineering & Technology Alumni Welfare Association. The mission of the Alumni Association is to promote a faster, mutually beneficial relationship between the Institute and its alumni.

### **Alumni Meet:**

The alumni meet is conducted once a year, wherein the passed-out students of undergraduate and postgraduate programs share their views with their juniors and give suggestions towards the betterment of overall development, including the curriculum.

- The alumni support each other in many ways, such as giving suggestions, feedback on existing curriculum, updates on emerging trends, etc., through various networking platforms.

The alumni frequently visit the institution and contribute financial support to the students, like books and project work materials.

### **Governance, Leadership and Management**

Aditya College of Engineering & Technology is headed by the Principal and is supported by the Dean, the Heads of the Departments, and Coordinators of other committees. The Institution functions with the support of the Internal Quality Assurance Cell (IQAC), the Examination Section, Research and Development (R & D), Proctoring, Training and Placement (T & P) Cell, and other committees. The Heads of the various departments identify the needs and requirements of the departments, which are then routed through the Purchase Committee for its view and suggestions to the concerned Heads and the Principal. The proposals are submitted to the governing body for its approval. Stakeholder opinions are taken into account while identifying gaps and proposing value-added courses. Stakeholders are also invited to participate in various committees, depending on the need, and their opinions are taken into account.

The institution provides an exceptional education for people from all walks of life, regardless of their social status, gender, religion, or caste. The institution arranges a variety of programs to educate students about social concerns, gender bias, nature, and the environment in collaboration with internal committees, each of which is led by the Committee Coordination and its members. In addition to regular academic activities, the institution has a substantial state-of-the-art infrastructure for curricular, extracurricular, and sports activities. Aside from these, the institution hosts conferences, seminars, symposia, and other events. The institute's faculty and students are encouraged to participate in research and development activities. The institution strives to develop students into successful entrepreneurs, software professionals, and students who wish to pursue higher education in India and abroad.

### **Institutional Values and Best Practices**

Aditya College of Engineering and Technology is committed to Endeavour the Student, Faculty and Community with its fine facilities to Educate, Experience, Employ, Empower, Ensure, and Enterprise. Taking the lead with a fine balancing act, it empowers the women to play an active role in curricular and extracurricular activities while providing physical facilities, an internal complaint committee cell to monitor grievances, and a daycare center to facilitate the feeding mothers to ensure gender equity. The conservation of natural resources and a sustainable environment is maintained by installing several alternative energy sources like solar, biogas plants, and LED bulbs. Solid, liquid, and E-Waste management is effectively carried out in the campus and the dry waste is recycled. Water is conserved through recharge pits, tanks, and bunds, and wastewater is recycled for gardening. A green campus is maintained by restricting entry of automobiles, using bicycles and banning single-use plastic items within the campus.

The quality of the environment is maintained and green energy and Environment audits are carried out in regular basis. The institution creates a disabled friendly environment to support the differently challenged students and faculty by providing special washrooms, ramps, and other facilities. It conducts various activities to bring awareness on constitutional obligations, environmental sustainability, and communal harmony to bring awareness among people. The code of conduct is strictly implemented and awareness programmes are conducted to sensitize students and staff to follow ethical values and code of conduct. It celebrates festivals, commemorative days, and events to protect the heritage and remind the responsibilities as citizens. The institution has its unique features and systems that are presented as best practices and distinctive features that include academics, proctoring system, placement, training programmes, societal support and environmental sustainability. Overall, ACET has ensemble the student to be proactive in his/her life.

NAAC



## 2. PROFILE

### 2.1 BASIC INFORMATION

Name and Address of the College	
Name	ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY
Address	ABD road, Aditya Nagar, Surampalem, Gandepalli (Mandal)
City	Surampalem
State	Andhra Pradesh
Pin	533437
Website	<a href="http://www.acet.ac.in">www.acet.ac.in</a>

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Tirumala Kodanda Rama Krishna Rao	884-2326212	9000276662	0884-2326212	principal@acet.ac.in
IQAC / CIQA coordinator	Chaluvadi V Raghavendra n	884-232621	9440674553	0884-232621	raghavendran.chv@acet.ac.in

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details				
Date of establishment of the college			01-01-2004	
<b>University to which the college is affiliated/ or which governs the college (if it is a constituent college)</b>				
<b>State</b>	<b>University name</b>		<b>Document</b>	
Andhra Pradesh	Jawaharlal Nehru Technological University,Kakinada		<a href="#">View Document</a>	
<b>Details of UGC recognition</b>				
<b>Under Section</b>	<b>Date</b>	<b>View Document</b>		
2f of UGC	19-03-2016	<a href="#">View Document</a>		
12B of UGC	08-06-2018	<a href="#">View Document</a>		
<b>Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)</b>				
<b>Statutory Regulatory Authority</b>	<b>Recognition/Approval details Institution/Department programme</b>	<b>Day,Month and year(dd-mm-yyyy)</b>	<b>Validity in months</b>	<b>Remarks</b>
AICTE	<a href="#">View Document</a>	15-06-2020	12	

Details of autonomy	
Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	ABD road, Aditya Nagar, Surampalem, Gandepalli (Mandal)	Rural	10	30622

## 2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BTech,Electrical And Electronics Engineering	48	intermediate	English	120	81
UG	BTech,Computer Science Engineering	48	intermediate	English	120	120
UG	BTech,Electronics And Communication Engineering	48	intermediate	English	240	240
UG	BTech,Mechanical Engineering	48	intermediate	English	240	139
UG	BTech,Information Technology	48	intermediate	English	60	60
UG	BTech,Civil Engineering	48	intermediate	English	120	72
PG	Mtech,Electrical And Electronics Engineering	24	UG	English	18	14
PG	Mtech,Computer Science	24	UG	English	18	6

	Engineering					
PG	Mtech,Electronics And Communication Engineering	24	UG	English	18	9
PG	Mtech,Mechanical Engineering	24	UG	English	18	10
PG	Mtech,Civil Engineering	24	UG	English	18	14
PG	MCA,Master Of Computer Applications	36	UG	English	60	60
PG	MBA,Mba	24	UG	English	60	26

#### Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	23				44				116			
Recruited	19	4	0	23	30	14	0	44	74	42	0	116
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	23				44				116			
Recruited	19	4	0	23	30	14	0	44	74	42	0	116
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				174
Recruited	131	43	0	174
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				174
Recruited	131	43	0	174
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				77
Recruited	56	21	0	77
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				77
Recruited	56	21	0	77
Yet to Recruit				0

### Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	15	3	0	6	1	0	4	0	0	29
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	4	1	0	24	13	0	70	42	0	154
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	Male	Female	Others	Total
	0	0	0	0

**Provide the Following Details of Students Enrolled in the College During the Current Academic Year**

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	465	11	0	1	477
	Female	241	2	0	0	243
	Others	0	0	0	0	0
PG	Male	80	0	0	0	80
	Female	77	0	0	0	77
	Others	0	0	0	0	0
Diploma	Male	279	0	0	0	279
	Female	31	0	0	0	31
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	48	54	29	21
	Female	13	9	9	8
	Others	0	0	0	0
ST	Male	4	5	2	5
	Female	1	0	0	2
	Others	0	0	0	0
OBC	Male	514	419	340	307
	Female	124	104	61	89
	Others	0	0	0	0
General	Male	575	478	549	475
	Female	219	206	161	203
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		1498	1275	1151	1110

### Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	Keeping in view the importance of interdisciplinary research with regard to products being developed and released into society, we have started initiating and encouraging final-year interdisciplinary projects.
2. Academic bank of credits (ABC):	Credits policy is yet to be implemented in full-scale. However, University is granting credits for a few MOOC courses.
3. Skill development:	A good number of students are taking up training programs offered by APSSDC and other reputed organizations.
4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using	Some courses, like Indian Heritage and Culture and Professional Ethics, are being taught as mandatory



online course):	courses.
5. Focus on Outcome based education (OBE):	We have started planning our teaching diaries with respect to OBE, estimating CO and PO attainment, etc. in line with Bloom's taxonomy and OBE.
6. Distance education/online education:	For the past few years, especially during the pandemic and thereafter, imparting online education and being ever ready to switch from offline mode to online mode has become a routine.

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## Extended Profile

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### 1 Program

#### 1.1

**Number of courses offered by the Institution across all programs during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
580	599	585	569	547

File Description	Document
Institutional data prescribed format	<a href="#">View Document</a>

#### 1.2

**Number of programs offered year-wise for last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
13	14	14	13	14

### 2 Students

#### 2.1

**Number of students year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
3454	3176	3292	3309	3320

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

#### 2.2

**Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
387	395	395	395	395

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

## 2.3

### Number of outgoing / final year students year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
991	818	989	795	798
File Description	Document			
Institutional data in prescribed format	<a href="#">View Document</a>			

## 3 Teachers

### 3.1

#### Number of full time teachers year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
151	185	188	185	178
File Description	Document			
Institutional data in prescribed format	<a href="#">View Document</a>			

### 3.2

#### Number of sanctioned posts year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
183	185	188	185	178
File Description	Document			
Institutional data in prescribed format	<a href="#">View Document</a>			

## 4 Institution

### 4.1

#### Total number of classrooms and seminar halls

**Response: 62**

## **4.2**

**Total Expenditure excluding salary year-wise during last five years ( INR in Lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
488.28	473.80	673.07	728.02	607.33

## **4.3**

**Number of Computers**

**Response: 871**

## 4. Quality Indicator Framework(QIF)

### Criterion 1 - Curricular Aspects

#### 1.1 Curricular Planning and Implementation

**1.1.1 The Institution ensures effective curriculum delivery through a well planned and documented process**

**Response:**

The Academic Committee's primary function is to act as a communication medium between the students and the faculty. This committee plans to keep the students aware of their academic standards and reduce inhibitions. It provides a platform for the teachers and students to interact at regular intervals. It also conducts students' academic achievement functions to honor their academic excellence. It takes up the responsibility of imbibing best practices to have a better future for future student communities.

The committee members gather twice a week to discuss and find a way, to develop and ensure the quality of the teaching and learning process. This committee also formulates the guidelines, rules, and regulations for all academic affairs of the college.

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Link for Additional information	<a href="#">View Document</a>

**1.1.2 The institution adheres to the academic calendar including for the conduct of CIE**

**Response:**

**Course File**

Aditya College of Engineering & Technology follows the prescribed curriculum of Jawaharlal Nehru Technological University-Kakinada.

For the smooth and successful conduction of course, we create lesson plan, objectives and outcomes of the course for every semester in the BTech programme.

Assignments, quizzes and remedial classes for slow learners are conducted to enhance the knowledge of the students.

**Upgradation of Library Books:** Required textbooks, reference materials, and e-journals for the upcoming semester/academic year are communicated to the library.

**Allocation of faculty to the Courses:** Faculty members are assigned courses by the Head of Department

(HOD) and Principal based on their areas of expertise and subject preferences.

**Preparation of Time tables:** Lectures, Projects, Industrial Training presentations, Seminars, counselling sessions, and library time slots are all included in the class-by-class time tables. Separate timetables are created for lab classes. Individual faculty timetables are created to reflect the full scope of his or her responsibilities.

**Development and Execution of Course Plan:** Each faculty member creates a detailed course plan for each topic that includes the text book(s), reference book(s), web resource(s), and Technological tool(s) that will be used. It also includes topics to be covered outside of the curriculum, which are then circulated to the students only after Head of the Department confirms it.

**Course file built-up:** Each faculty member creates a course file that includes the timetable, lecture plan, course outcomes, unit-by-unit notes, previous question papers, and previous performances.

**Teaching Methods & Content Delivery:** In addition to the classic lecture style, new and innovative teaching strategies are used to communicate the subject. To encourage students' active participation, learner-centric strategies such as collaborative learning, video lectures, quizzes, group discussions, and so on are used.

**Tutorial/Assignments:** Faculty prepare solutions for mathematical and analytical subjects, as well as assignments and assessments that incorporate past university problems as well as other important questions.

**Evaluation:** The HOD/Dean Academic, who is followed by the Principal, conducts a periodic review of the syllabus coverage and students' regularity. Regular sessions with Class Representatives are used to solicit suggestions for improving the teaching-learning process.

**Assessments:** The assessment is done in two ways, as per the regulations of the affiliated University:

1. **Internal Assessment:** Internal assessment can be done by conducting internal examinations based on the academic calendar and the timetable for conducting examinations given by the University.
2. **External Assessment:** The external assessment is based on the semester-end examinations conducted by the university.

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Link for Additional information	<a href="#">View Document</a>

**1.1.3 Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years**

**1. Academic council/BoS of Affiliating university**

- 2.Setting of question papers for UG/PG programs
- 3.Design and Development of Curriculum for Add on/ certificate/ Diploma Courses
- 4.Assessment /evaluation process of the affiliating University

**Response:** B. Any 3 of the above

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Details of participation of teachers in various bodies/activities provided as a response to the metric	<a href="#">View Document</a>
Link for Additional information	<a href="#">View Document</a>

## 1.2 Academic Flexibility

### 1.2.1 Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

**Response:** 100

#### 1.2.1.1 Number of Programmes in which CBCS / Elective course system implemented.

Response: 13

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional information	<a href="#">View Document</a>

### 1.2.2 Number of Add on /Certificate programs offered during the last five years

**Response:** 81

#### 1.2.2.1 How many Add on /Certificate programs are offered within the last 5 years.

2020-21	2019-20	2018-19	2017-18	2016-17
11	33	12	11	14

File Description	Document
List of Add on /Certificate programs	<a href="#">View Document</a>
Brochure or any other document relating to Add on /Certificate programs	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional information	<a href="#">View Document</a>

### 1.2.3 Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years

**Response:** 38.24

#### 1.2.3.1 Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
1291	1964	1263	742	1035

File Description	Document
Details of the students enrolled in Subjects related to certificate/Add-on programs	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 1.3 Curriculum Enrichment

### 1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics ,Gender, Human Values ,Environment and Sustainability into the Curriculum

**Response:**

Aditya College of Engineering & Technology, Affiliated to JNTUK, Kakinada is following the regulation syllabus prescribed by the university for delivering the curriculum to the students. Once a new regulation is introduced, our department curriculum coordinators are analyzing the syllabus under the criteria:

- Program Core PC
- Program Elective PEC
- Open Elective OEC
- Project PROJ
- Seminar/Internship SEM
- Basic Sciences BSC



- Humanities, Social Sciences and Management HSSMC
- Engineering Sciences ESC
- Other MC

File Description	Document
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years

**Response:** 31.27

#### 1.3.2.1 Number of courses that include experiential learning through project work/field work/internship year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
198	192	193	165	154

File Description	Document
Programme / Curriculum/ Syllabus of the courses	<a href="#">View Document</a>
MoU's with relevant organizations for these courses, if any Average percentage of courses that include experiential learning through project work/field work/internship	<a href="#">View Document</a>

### 1.3.3 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year

**Response:** 30.52

#### 1.3.3.1 Number of students undertaking project work/field work / internships

**Response:** 1054

File Description	Document
List of programmes and number of students undertaking project work/field work/ /internships	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 1.4 Feedback System

**1.4.1 Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders 1) Students 2) Teachers 3) Employers 4) Alumni**

**Response:** A. All of the above

File Description	Document
Any additional information (Upload)	<a href="#">View Document</a>
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	<a href="#">View Document</a>
URL for stakeholder feedback report	<a href="#">View Document</a>

**1.4.2 Feedback process of the Institution may be classified as follows: Options:**

1. Feedback collected, analysed and action taken and feedback available on website
2. Feedback collected, analysed and action has been taken
3. Feedback collected and analysed
4. Feedback collected
5. Feedback not collected

**Response:** A. Feedback collected, analysed and action taken and feedback available on website

File Description	Document
Upload any additional information	<a href="#">View Document</a>
URL for feedback report	<a href="#">View Document</a>

## Criterion 2 - Teaching-learning and Evaluation

### 2.1 Student Enrollment and Profile

#### 2.1.1 Average Enrolment percentage (Average of last five years)

**Response:** 80.36

##### 2.1.1.1 Number of students admitted year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
1031	894	866	868	875

##### 2.1.1.2 Number of sanctioned seats year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
1110	1134	1134	1134	1134

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy ) during the last five years ( exclusive of supernumerary seats)

**Response:** 60.33

##### 2.1.2.1 Number of actual students admitted from the reserved categories year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
265	214	229	238	240

File Description	Document
Average percentage of seats filled against seats reserved	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 2.2 Catering to Student Diversity

### 2.2.1 The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

#### Response:

The Institute attracts students from diverse backgrounds through the admission process defined by the State Government of Andhra Pradesh. The students are provided with complete knowledge of the governance system and all academic processes during the first three weeks of their engineering journey. The institute has designed and arranged an induction program involving administrative and senior faculty. College also provides the bridge course for the freshers, who are from different academic backgrounds to fill the gap in their academics (<http://www.acet.ac.in/?p=Bridge%20Course>). Students are exposed to student-centered learning experiences, including academic rules and regulations, curriculum design and structure, teaching-learning methodologies, and formative and summative assessment patterns etc. They are also well-informed about outcome-based education.

The college has a well-established counseling/proctoring system. Students are assigned to faculty members who act as proctors/counselors. They meet with their allocated students on a regular basis to monitor their academic progress. A student scoring less than 40% marks in the internals of the subject, failing in the semester exams and having less than 75% attendance is considered as an academically slow learner. Counselors continuously track these students and keep their parents up to date on their progress. The class teacher also keeps focus on the academic performance of the students and identifies the students who perform badly in their academics. Counselors engage with such students and help them by assisting with assignment completion and arranging remedial classes for them. In the case of advanced learners, faculty encourage and motivate them to perform better in academics as well as provide them different platforms such as participating in workshops, presentations and internships. Faculty also encourage these students in achieving campus placements (<http://www.acet.ac.in/?p=Placements>) and higher education for their professional development.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

### 2.2.2 Student- Full time teacher ratio (Data for the latest completed academic year)

Response: 22.87

File Description	Document
Any additional information	<a href="#">View Document</a>

## 2.3 Teaching- Learning Process

### **2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences**

#### **Response:**

The Institution has made a continuous effort to transpose from the traditional teacher-centric approach to a student-centric one. The teachers act as a stimulant and students play a spirited role in the learning process. The teaching methods are designed to fulfill the need of the students.

#### **Learning is made student-centered by adopting activities like:**

- By giving a detailed course plan for each subject prepared by the course co-coordinator
- Students are encouraged to know the subject beforehand which gives them reading, learning, and managing skills.
- By practicing the participative teaching-learning method.

**Experimental Learning:** The faculty members promote learning through enticing the learners in wealthy content of coaching through experience, demonstration, assignment improvement, and student seminar presentation. The organization imparts the experiential studying practices to magnify the creativity and analytical levels of the students with add-on courses on the latest technologies with NPTEL Certification Courses. The institution gives technical training on various value-added courses like Python, Java, AWS, with the help of Technical Hub (THub) on campus.

**Participatory Learning:** In this form of gaining knowledge, college students take part in diverse activities which includes seminar, group discussions, wallpapers, tasks, and skill-based training. Students are encouraged to participate in sports to divert them from monotony. The college organizes an inter-institutional technical event **VEDA** every year for engineering students, where technical presentations on various diverse topics and a few selected projects are displayed on the larger platform. Additionally, the institute encourages students to publish papers in conferences and journals to give them exposure to learn and gain new capabilities.

**Problem Solving Methods:** Departments encourage students to collect and develop problem-solving skills. For this, the college organizes expert lectures on numerous topics, motivate college students to join MOOC courses, participate in diverse inter-college and intra-college technical fests and other competitions like

- Regular Assignments based on problems
- Case studies
- Mini Project Development
- Debates
- Regular Quizzes
- Discussion
- Class presentations

The institution makes use of **MOODLE** as a getting-to-know management gadget that advantages the students with progressive and creative learning surroundings. A diverse path content material and resources links to e-resources are uploaded and made available to the students which enhances their overall learning experience. **E- sources like DELNET, Library e-journals from N-List, J-Gate, e-books of McGraw**

**Hil & Pearson** are provided to college students to enhance their knowledge levels. The college has a Wi-Fi-enabled campus to subsidize the scholars for online mastering.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

### 2.3.2 Teachers use ICT enabled tools for effective teaching-learning process.

#### Response:

It is essential for the students to analyze and grasp the latest technology in order to become industry-ready. Consequently, faculty are given the liberty to combine technology with conventional modes of teaching wherever and whenever required. Information and Communication Technology (ICT) enabled coaching methodologies and superior technology are being accompanied by the faculty to the lecture rooms as well as to the laboratories. All the classrooms and a few laboratories are equipped with ICT tools like projectors, audio-visuals, and high-speed internet/Wi-fi on the campus. Internet access is given to all staff, students, administrative office, and library which improves network and communication on the campus. Digital library is having computers with internet facility. It is an open-access to staff and students to E-assets like world e-book Library, memberships like **DELNET, Library e-journals from N-List, J-Gate, e-books of McGraw Hil & Pearson** are used by the faculty. The institute is a Wi-Fi-enabled campus. The college has an LMS portal and access is given to every student, where faculty upload daily attendance, internal, external marks, etc.

#### Different ICT tools used by the institution are:

- Projectors
- Desktops
- Laptops
- Printers and Scanners
- Photocopier machines
- SmartBoard
- Seminar hall
- Online class through Microsoft Teams
- Digital Library
- Video Lectures
- Online Learning resources
- Digital library resources

#### Different ICT tools used by the faculty are:

- Google quiz
- MOOCS
- Multimedia Projectors
- Computers
- Digital Content

- Laptop/Desktop
- WiFi
- LAN connected system
- Online/off-line videos
- Microsoft Teams for online class teaching / Meetings

File Description	Document
Upload any additional information	<a href="#">View Document</a>

### 2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year )

**Response:** 19:1

#### 2.3.3.1 Number of mentors

**Response:** 183

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll.	<a href="#">View Document</a>
mentor/mentee ratio	<a href="#">View Document</a>
Circulars pertaining to assigning mentors to mentees	<a href="#">View Document</a>

## 2.4 Teacher Profile and Quality

### 2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

**Response:** 96.5

File Description	Document
Year wise full time teachers and sanctioned posts for 5years(Data Template)	<a href="#">View Document</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

**Response:** 6.22

**2.4.2.1 Number of full time teachers with *Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt.* year wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
29	9	7	3	3

File Description	Document
List of number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. and number of full time teachers for 5 years (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)**

**Response:** 7.64

**2.4.3.1 Total experience of full-time teachers**

Response: 1153

File Description	Document
List of Teachers including their PAN, designation, dept and experience details(Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 2.5 Evaluation Process and Reforms

**2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode**

**Response:**

There are various strategies to meet the evaluation methods, we are strictly adhering to JNTUKuniversity norms and conditions for internal evaluation. There are various time slots allocated to conduct descriptive and online tests (Quiz) for each and every department. Based on the University academic schedule, each faculty prepares the internal examination and the assignments considering the entire coverage of the COs and also the taxonomy as appropriate. While preparing the assignment questions, faculty will try to cover all the possible taxonomies to the maximum extent.

- Two Mid Examinations are conducted for students as per university norms in each semester



Final Mid marks = (Best of (Mid-1/Mid-2) marks x 0.8 + Least of (Mid-1/Mid-2) marks x 0.2)

- Each faculty prepares the scheme of evaluation and evaluates the student answer scripts as per the scheme. The answer scripts will be distributed to students in the classroom and the scheme will be explained. The discrepancies/grievances, if any will be resolved by the teacher before submitting the student performance to the college examinations section.
- We have planned in such a way the evaluation is completed from time to time and submitted to the exam cell. The same has been displayed in the concerned department notice board and every student will be aware of their own performance.
- In addition to that, to enrich students' knowledge, we are conducting 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 to improve their skills.
- For assessment of seminars, summer internships, and projects, the faculty coordinator prepares a schedule of presentations of students in slots in consultation with the HOD and is communicated to students. Students present their work or report to the coordinator and evaluate on the basis of various parameters set by the respective coordinator.
- For assessment of laboratory course, an internal practical viva is conducted by a respective faculty member at the end of the course
- Also, the Tech-Fests like "VEDA" increase the student's strength and establish good relationships among the neighborhood Institutions. Moreover, the students are allowed to engage themselves in social activities like NSS, Swatch Bharat the same has been evaluated on their quality of work culture.

File Description	Document
Any additional information	<a href="#">View Document</a>

### 2.5.2 Mechanism to deal with internal/external examination related grievances is transparent, time-bound and efficient

#### Response:

Based on the University JNTUK academic schedule, we have planned to conduct internal examinations i.e., descriptive, and online tests. The college strictly follows the guidelines and rules issued by the affiliating university while conducting internals and semester-end examinations. Paper setting and evaluation of the answer scripts shall be done as per the procedures laid down by the University Examination section from time to time. For conducting the internal assessment tests, a department-level coordinator/committee is constituted for the smooth conduction of internal examinations.

- Two internal assessment tests Mid-1 & Mid-2 are conducted in each semester at the department level
- The evaluated internal answer scripts are distributed among the students in the classroom, if there are any corrections in evaluation that will be rectified immediately by the faculty of the same subject.
- Internal examination results are displayed on the notice board for the convenience of students before submitting to the examination section of the university.

- If any discrepancy is found in the submitted marks, it will be brought to the notice of the University examination section within one week from the submission through proper channel with all proofs; it will be sorted within the time-bound, this is the facility provided by the University examination section. Discrepancies brought after the given deadline will not be entertained under any circumstances.
- Any grievances related to university question paper like out of syllabus, repeated questions, and improper split of marks, marks missed, wrong question number during semester exams are addressed to the superintendent of college examination cell and the same reported is to the university immediately through the controller of examinations.
- University decision or information after resolving the grievances/correction in the question paper is intimated immediately to the students during the examination through the examination committee members.
- If a student has any grievances related to the evaluation of the semester-end exam answer scripts, the student can apply for revaluation/recounting/challenge evaluation.
- University declared the result of revaluation/recounting/challenge evaluation after completing the process on the university website.

The assessment of the student's performance in each course will be based on internal evaluation and semester-end examination

File Description	Document
Any additional information	<a href="#">View Document</a>

## 2.6 Student Performance and Learning Outcomes

**2.6.1 Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.**

### Response:

The Institution puts emphasis on Outcome Based Education which offers what is anticipated from the student after they finish their course. In this context, Program Specific Outcomes (PSOs), Program Outcomes (POs), and Course Outcomes (COs) are developed. Program Outcomes (POs), Program Specific Outcomes (PSOs), and course outcomes are communicated to the stakeholders of the program by the following procedures.

POs and PSOs are framed by the faculty members under the supervision course coordinator. All courses of the all programmes have well-defined COs, the CO-PO mapping is done accordingly. The hard copy of the syllabus is made available to every student and faculty as well as is also available on the Institute website ([www.acet.ac.in](http://www.acet.ac.in)).

POs and PSOs along with Vision and Mission are displayed in all prominent locations of the campus like; department offices, laboratories, classrooms, and department libraries. COs are also printed on each lab manual and issued to all students at the beginning of every semester. All the faculty members prepare a course file for each semester that lists the COs and POs and their mapping. During the departmental

meeting and faculty meeting, POs and PSOs are reviewed among the students and staff members.

The respective course coordinator frames the COs in consultation with concerned faculty members. The course outcomes and their mapping with program outcomes and program-specific outcomes are elaborately discussed and derived by the course committee members. During the commencement of each unit and after the completion of the unit, the course outcomes are reviewed.

File Description	Document
Upload COs for all Programmes (exemplars from Glossary)	<a href="#">View Document</a>

## **2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution.**

### **Response:**

#### **1. Attainment of Course Outcomes:**

Internal assessment will be conducted as per the guidelines and schedule of JNTUK, Kakinada. External exams are conducted by JNTUK. All the marks scored by the learners are recorded. Based on rubrics set for individual courses, the attainment level will be calculated. Attainments for internal examinations will be calculated by taking the question-wise attainments for descriptive, online, and assignments and an average of these attainments will be considered as CO attainments will be finalized.

#### **2. PO attainment calculations:**

CO-PO matrix is considered for each subject. PO attainment is obtained from PO with CO values.



# ADITYA COLLEGE OF ENGINEERING AND TECHNOLOGY

Aditya Nagar, ADB Road, Surampalem - 533 437

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Course Code	Course Name	CO Attainment Out of 3	PO1 Attainment Out of 3	PO2 Attainment Out of 3	PO3 Attainment Out of 3	PO4 Attainment Out of 3	PO5 Attainment Out of 3	PO6 Attainment Out of 3	PO7 Attainment Out of 3	PO8 Attainment Out of 3	PO9 Attainment Out of 3	PO10 Attainment Out of 3	PO11 Attainment Out of 3	PO12 Attainment Out of 3	PSO1 Attainment Out of 3	PSO2 Attainment Out of 3
HIDE			I YEAR I SEMESTER													
HIDE			I YEAR II SEMESTER													
HIDE			II YEAR I SEMESTER													
C211-A	Electrical Circuit Analysis – II	1.78	1.8	1.8		1.8	1.8								1.8	1.8
C211-B		1.92	1.9	1.9		1.8	1.8								1.9	1.9
C212-A	Electrical Machines-I	2.35	2.4	2.4	2.3		2.4							2.4	2.4	2.3
C212-B		2.3	2.3	2.3	2.3		2.3							2.3	2.3	2.3
C213-A	Electronic Devices and Circuits	2.25	2.3	2.3	2.2	2.7									2.2	2.2
C213-B		2.38	2.4	2.4	2.4	2.8									2.4	2.3
C214-A	Electro Magnetic Fields	1.93	1.9	1.9	2										1.9	1.9
C214-B		1.95	1.9	1.9	2										2	1.9
C215-A	Thermal and Hydro Prime moves	2.49	2	2	2			2		2			2		2	2
C215-B		2.39	2	2	2			2		2			2		2	2
C216-A	Managerial Economics & Financial Analysis	2.31				2.3		2.4	2.4	2.3	2.2			2.3		2.3
C216-B		2.31				2.3		2.4	2.4	2.3	2.2			2.3		2.3
C217-A	Thermal and Hydro Laboratory	2.44	2.4	2.4	2.4	2.4	2.4	2.4				2.6	2.4		2.4	2.5
C217-B		2.43	2.4	2.4	2.4	2.4	2.4	2.4				2.5	2.4		2.4	2.5
C218-A	Electrical Circuits Laboratory	2.36	2.4	2.4	2.4	2.4	2.3				2.4				2.4	2.4
C218-B		1.79	2.4	2.4	2.4	2.5	2.5				2.4				2.4	2.4
C219-A	Essence of Indian Traditional Knowledge	2.35						2.4		2.4						
C219-B		2.35						2.4		2.4						
HIDE			II YEAR II SEMESTER													
HIDE			III YEAR I SEMESTER													
HIDE			III YEAR II SEMESTER													
HIDE			IV YEAR I SEMESTER													
HIDE			IV YEAR II SEMESTER													
C421-A	Digital Control Systems	2.54		2.5	2.7		2.6	2.4							2.5	2.5
C421-B		2.43		2.4	2.7		2.5	2.2							2.4	2.4
C422-A	HVDC Transmissions	2.43	2.4	2.5	2.4									2.4		2.4
C422-B		2.38	2.4	2.4	2.4									2.4		2.4
C423-A	Electrical Distribution Systems	2.92	2.9	2.9	2.9	2.9								3	2.9	2.8
C423-B		2.78	2.8	2.8	2.8	2.6								2.9	2.8	2.7
C424-A	Flexible Alternating Current	2.4		2.4	2.4		2.4		2.4					2.4	2.5	2.4
C424-B	Transmission Systems	2.45		2.4	2.5		2.4		2.4					2.4	2.4	2.4
C425-A	Seminar	1.7	1.7	1.7		1.7					1.7			1.7	1.7	1.7
C425-B		1.7	1.7	1.7		1.7					1.7			1.7	1.7	1.7
C426-A	Project	2.68	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7		2.7		2.7	2.7
C426-B		2.68	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7		2.7		2.7	2.7
PO Attainment through Results		2.26	2.27	2.32	2.32	2.28	2.36	2.36	2.42	2.28	2.43	2.32	2.33	2.29	2.28	
80% of PO Attainment through Results		1.81	1.81	1.85	1.85	1.82	1.89	1.89	1.94	1.83	1.95	1.86	1.87	1.83	1.83	
Stakeholder Feedback survey		2.26	2.26	2.29	2.29	2.27	2.32	2.32	2.35	2.27	2.19	2.29	2.10	2.27	2.27	
20% of Stakeholder Feedback Survey		0.45	0.45	0.46	0.46	0.45	0.46	0.46	0.47	0.45	0.44	0.46	0.42	0.45	0.45	
PO Attainment		2.26	2.27	2.31	2.31	2.27	2.35	2.35	2.41	2.28	2.38	2.31	2.29	2.28	2.28	
Target Value		2.26	2.27	2.30	2.26	2.27	2.29	2.28	2.28	2.18	2.21	2.15	2.25	2.28	2.29	
Gap		NO GAP	NO GAP	NO GAP	NO GAP	NO GAP	NO GAP	NO GAP	NO GAP	NO GAP	NO GAP	NO GAP	NO GAP	NO GAP	NO GAP	
PO Attainment(%)		75.40	75.51	77.04	77.07	75.77	78.47	78.40	80.18	76.02	79.44	77.15	76.22	76.14	76.02	
Target value(%)		75.21	75.59	76.69	75.43	75.66	76.19	76.11	76.10	72.69	73.53	71.63	75.01	76.04	76.27	
Gap(%)		NO GAP	NO GAP	NO GAP	NO GAP	NO GAP	NO GAP	NO GAP	NO GAP	NO GAP	NO GAP	NO GAP	NO GAP	NO GAP	NO GAP	

### File Description

### Document

Upload any additional information

[View Document](#)

## 2.6.3 Average pass percentage of Students during last five years

Response: 80.49

### 2.6.3.1 Number of final year students who passed the university examination year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
783	591	757	699	693

### 2.6.3.2 Number of final year students who appeared for the university examination year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
991	818	985	799	798

File Description	Document
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>

## 2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process	
Response: 3.78	
File Description	Document
Upload database of all currently enrolled students (Data Template)	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>

## Criterion 3 - Research, Innovations and Extension

### 3.1 Resource Mobilization for Research

**3.1.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)**

**Response:** 67.51

**3.1.1.1 Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
60.6728	0.46	6.38	0	0

File Description	Document
List of endowments / projects with details of grants	<a href="#">View Document</a>
e-copies of the grant award letters for sponsored research projects / endowments	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.1.2 Percentage of teachers recognized as research guides (latest completed academic year)**

**Response:** 2.65

**3.1.2.1 Number of teachers recognized as research guides**

**Response:** 4

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.1.3 Percentage of departments having Research projects funded by government and non government agencies during the last five years**

**Response:** 23.33

**3.1.3.1 Number of departments having Research projects funded by government and non-government agencies during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
3	2	2	0	0

### 3.1.3.2 Number of departments offering academic programmes

2020-21	2019-20	2018-19	2017-18	2016-17
6	6	6	6	6

File Description	Document
Supporting document from Funding Agency	<a href="#">View Document</a>
List of research projects and funding details	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Paste link to funding agency website	<a href="#">View Document</a>

## 3.2 Innovation Ecosystem

### 3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

#### Response:

Aditya College of Engineering and Technology (ACET) established Incubation center (<http://acet.ac.in/?p=entreprenur#tab5>) at ground floor of Visweswarya Bhavan Room No:019, 1000sq.ft area, provides conducive environment for technology-driven innovations, to motivate young minds towards entrepreneurship and pave established path towards their goals.

ACET is recognized by various state and central government organizations like Host Institute Business Incubation (**HIBI**) center from MSME and established LBI (Livelihood Business Incubation) center under ASPIRE scheme by **MSME**, Govt. of India and received a grant of Rs.50 Lakhs in the year 2020. Conducted various guest lectures from Eminent Management Experts to inspire students towards entrepreneurship, understand Budget and scope of grants, marketing strategies and various funding agencies.

ACET secured **4 star** rating in Atal Ranking of Institutions on Innovation Achievements (**ARIIA**) - 2020-21 under MoE. (<http://acet.ac.in/uploads/ARIIA/ARIIA%202020-21-NEW.pdf>)

1. One of our students Mr K K Mishra (<https://www.linkedin.com/in/krishnkumarmishra/?originalSubdomain=in>) started **Agumentik Software**



**Pvt. Ltd** (<https://www.agumentik.com/>) recognized by Startup India, became part of 500 most promising IT Companies in INDIA which provides employability to Adityans also.

**2. Karanam Technologies** is another startup run by Mr. K.B.S.Tarun Kumar, is about soil less farming, with a turnover of 4 lakhs/annum and profit of 1.3 Lakhs/annum. The CEO Mr.K.B.S.Tarun Kumar has participated in i2E competition at **BOSTAN, USA**, has also received award in **Decennial celebrations at JNTUK, Kakinada**.

3. Some of our proud startups incubated in Aditya College of Engineering & Technology are VYSPRATECH, Trigid Innovations Pvt.Ltd, Picshort Private Limited, Night Out, QQ Advertising & Marketing Pvt.Ltd

#### Activities Furnished:

1. Provides Common facilities to incubate viz.Office support, Equipment support and Technology support.
2. Provides support in documentation, publication and patenting of innovations.
3. Certification training program on entrepreneurship is offered to faculty and students.
4. Conducted workshops and seminars on “How to plan for start-up, Legal & Ethical steps, IPRP. ([http://acet.ac.in/?p=workshops\\_seminars](http://acet.ac.in/?p=workshops_seminars)).
5. Organized various industrial visits to ISRO, Infosys, VTPS, Steel Plant and Software companies to inculcate industrial environment to students.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

### 3.2.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years

Response: 42

#### 3.2.2.1 Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
23	8	4	4	3



File Description	Document
Report of the event	<a href="#">View Document</a>
List of workshops/seminars during last 5 years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.3 Research Publications and Awards

<b>3.3.1 Number of Ph.Ds registered per eligible teacher during the last five years</b>	
<b>Response:</b> 1.25	
<b>3.3.1.1 How many Ph.Ds registered per eligible teacher within last five years</b>	
Response: 5	
<b>3.3.1.2 Number of teachers recognized as guides during the last five years</b>	
Response: 4	
File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
URL to the research page on HEI website	<a href="#">View Document</a>

#### 3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the last five years

**Response:** 1.01

##### 3.3.2.1 Number of research papers in the Journals notified on UGC website during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
87	43	29	15	5

File Description	Document
List of research papers by title, author, department, name and year of publication	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

**Response:** 0.38

#### 3.3.3.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
43	21	2	0	1

File Description	Document
List books and chapters edited volumes/ books published	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 3.4 Extension Activities

### 3.4.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

**Response:**

**ADITYA COLLEGE OF ENGINEERING AND TECHNOLOGY-NSS Unit** with registered number 90214409 in collaboration with JNTUK Kakinada organized and conducted various extension activities to promote social awareness, social responsibility, constitutional responsibility, Health Camps, conduct rallies, contribution to environmental protection, Swachh bhara, focus on Gender equity and women empowerment in the college-neighborhood-community in collaboration with JNTUK NSS, Community health center peddapuram, AP Police Dept., Surampalem panchayat, ZPH School surampalem, PHC Katravulapalli, Santha Ashram, GGH Kakinada, PHC Duvva, Aditya college of Pharmacy, Indian Red Cross society, Mukyamantri eye kendram, Zeal foundation, Love to serve foundation, Lakshmi Sai dental care, Siddhartha Blood Bank, Aanuru panchayat, Aditya degree college, Peddapuram panchayat, aanuru primary school, kiran eye hospital, Nayakampalli panchayat.

In order to bring awareness in the society, to enlighten and remind the responsibilities that an individual and citizen of our country. The NSS unit of ACET took initiative to conduct programmes in college

premises and nearby villages, schools and public places.

The NSS UNIT conducted total number of 49 programmes in the five academic years 2016-17 to 2020-21 in collaboration with 09 government and 07 NGOS in and out of the campus. In these programmes 65.97 % of total students have participated actively.

In social awareness, social responsibility, constitutional responsibility a total number of 22 programmes were conducted that includes Survey, sanitization, drug abuse, illicit trafficking, fundamental rights pledge of my gov.in were conducted to make the public understand the social and ethical norms and take initiative in serving the people to ensure the integrity of society. To be responsible and follow the fundamental rights. 6224 participants took part in the programmes.

In the aspect of health care NSS UNIT conducted 14 programmes that include blood donation camps, yoga, eye checkup, pulse polio, Covid Vaccination, Health and hygiene. 2905 participants actively participated. The main aim is to promote health consciousness among public to stay fit and active and also to achieve wellness with in and in the community by maintaining good health and getting vaccinated when required.

NSS UNIT always focuses on promoting environmental consciousness. It conducted 6 programmes that is plantation and distribution of saplings drive, awareness programmes on soil fertility and affects of plastic usage. The programmes were conducted in the rural areas and villages to protect the green carpet, combat deforestation soil erosion, global warming and promote vegetation for fresh, pure oxygen and environment. 303 participants involved in the programme, while bringing awareness on ill effects of single usage carry bags and other harmful materials.

Swachh Bharat abhiyan is an initiative of govt. of India, a cleanliness drive to maintain the ambience and surroundings clean. 6 swachh bharat programmes were conducted involving 1813 participants cleaning the college premises and visited nearby villages to bring awareness in public and participants about littering of waste, contamination of soil, land and water and cleanliness drives.

NSS UNIT also took efforts in promotion activities like gender equity and women empowerment. 2 programmes, One on Gender Equity and another one program on women empowerment conducted to support women and strive to address gender impact in public for the welfare of women and girls.

NSS UNIT always stands in forefront to serve society, environment, humanity for a peaceful and harmonious life by conducting 07 charity programs. 1035 students are participated in the programs.

File Description	Document
Paste link for additional information	<a href="#">View Document</a>

### **3.4.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years**

**Response: 7**

**3.4.2.1 Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
3	3	1	0	0

File Description	Document
Number of awards for extension activities in last 5 year	<a href="#">View Document</a>
e-copy of the award letters	<a href="#">View Document</a>

**3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years**

**Response: 44**

**3.4.3.1 Number of extension and outreach Programmes conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
17	9	6	6	6

File Description	Document
Reports of the event organized	<a href="#">View Document</a>
Number of extension and outreach Programmes conducted with industry, community etc for the last five years	<a href="#">View Document</a>

**3.4.4 Average percentage of students participating in extension activities at 3.4.3. above during last five years**

**Response: 56.82**

**3.4.4.1 Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
3161	1650	2046	1102	1500

File Description	Document
Report of the event	<a href="#">View Document</a>
Average percentage of students participating in extension activities with Govt or NGO etc	<a href="#">View Document</a>

### 3.5 Collaboration

#### 3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year

Response: 65

##### 3.5.1.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
25	10	21	8	1

File Description	Document
e-copies of related Document	<a href="#">View Document</a>
Details of Collaborative activities with institutions/industries for research, Faculty exchange, Student exchange/ internship	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years

Response: 14

##### 3.5.2.1 Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
9	3	0	1	1

File Description	Document
e-Copies of the MoUs with institution/ industry/corporate houses	<a href="#">View Document</a>
Details of functional MoUs with institutions of national, international importance, other universities etc during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## Criterion 4 - Infrastructure and Learning Resources

### 4.1 Physical Facilities

#### 4.1.1 The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.

##### Response:

Aditya College of Engineering & Technology (ACET) has the appropriate infrastructure and physical resources, such as classrooms, labs, computer equipment, and so on, in accordance with AICTE regulations, to support the teaching and learning activities, as described below.

- The college is situated on a lavish green campus of 10 acres and caters to both academic and residential needs.
- Academic amenities for all Under Graduate (UG) and Post Graduate (PG) programmes are housed in two separate academic buildings, each having three floors.
- All the classrooms (55) on campus are standard size and can accommodate 72 students. It is also equipped with a white board, projectors, and Wi-Fi connectivity.
- All the faculty members have access to laptops (or) desktops and other ICT amenities that aid in the teaching-learning activities.
- The Knowledge Information Centre (KIC-Central Library) provides resources to all programmes, with over 6,588 titles and 8,127 volumes. Also, a digital library with 30 systems that enable access to online literature and journals assists KIC activities. In addition to KIC, in their respective locations, all departments have specialised library that serve their primary and instantaneous needs.

##### Laboratories

- ACET includes 39 completely equipped labs with the most up-to-date technical equipment as specified in the curriculum, as well as a departmental library and six special labs for all departments.
- Each department has its own computer lab with the most up-to-date software to fulfill the needs of major projects, mini-projects, and research. Further, students are encouraged to undertake research work in emerging areas in addition to the standard curriculum.

##### Exclusive Learning Centers

- Microsoft Innovation Centre
- SIEMENS Training Centre
- A-View Lab
- Andhra Pradesh Skill Development Centre
- Professional Societies
- Virtual Labs training centre
- **ICT as a Learning Resource**

All computer labs on campus are outfitted with a sufficient number of computers (1:3 ratio) and installed with licenced software. In addition to that, to train the students with advanced software applications, an advanced laboratory with desktop workstations is available on the campus.

All the systems (desktops and laptops) on the campus are connected to the LAN with domain servers. The whole campus is Wi-Fi equipped, with a dedicated internet leased line backbone connecting the buildings, catering to the demands of students and teachers. The organization has access to a bandwidth of 100 Mbps to meet the needs of academics, hostels, quarters, and administration requirements. Committed staff from the IT domain maintain the PCs on a regular basis, guaranteeing security as needed. A dedicated server hosts a digital learning platform with video and text content to supplement the classroom teaching-learning process.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

#### **4.1.2 The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.**

##### **Response:**

Other than curricular activities, Aditya College of Engineering & Technology support extra-curricular activities like Sports, Games, Cultural activities, Gymnasium and Yoga etc. The sports and games fields cover a total of 10 acres. Athletics, Volleyball, and Kabaddi, are just a few of the sports available at ACET. There are indoor (table tennis, chess, caroms) and outdoor Shuttle courts, as well as a gymnasium is also available.

The Aditya College of Engineering & Technology had launched a wide variety of sports and games activities to students to inculcate competitive spirit among the students. Aditya College of Engineering & Technology offers adequate infrastructure facilities for games and sports such as:

- 200m Track
- Volleyball Court
- Kabaddi Court
- Shuttle courts
- Table tennis court
- Chess
- Caroms

**On a zone and national level, the students have brought the university honours, name, and fame. Various tournaments are held for students. ACET has demonstrated its superiority in different sports.**

**ACET has a team of physical trainers with a proven track record in sports. ACET has competed in numerous intercollegiate sports meets and has a long history of sporting success.**

**The Girls and Boys Hostels have facilities for shuttle, caroms, table tennis, and chess,**



as well as a gymnasium, yoga and cultural activities.

### **Gymnasium (Fitness Centre)**

**The hostel has gym and fitness centre facilities for students to be fit and healthy, including treadmills, exercise cycles, body building equipment, and other cutting-edge fitness equipment. The gym is open in the morning as well as the evening.**

### **A healthy body and a healthy mind with Yoga**

Yoga is a journey of the self, to the self, and through the self, with the goal of shining the light of consciousness into the darkest regions of the body. Yoga centres in boys' hostels and girls' hostels conducted Yoga sessions on a regular basis for the students here, with the goal of enhancing their inner selves and making them better, more effective people.

### **Cultural Facilities**

At Aditya College of Engineering & Technology, we believe that in order to improve our students' talents, they must be given opportunity to explore their creativity. Throughout the year, cultural programmes are held to foster creative endeavours and nurture talent. Students establish groups and share responsibility for event planning.

All of the facilities contain well-equipped seminar halls/assembly halls, annual functions and cultural events can be held there. At the main seminar hall, major cultural events are held.

"A SOUTH-INDIAN ANNUAL YOUTH FESTIVAL celebrated in the month of January," according to a new definition for COLOURS in the most recent online dictionary, spear headed by Aditya College of Engineering & Technology. Colours, a state-level youth festival, began in 2009 at ADITYA CAMPUS, Surampalem, and was repeated in future years. And also all important Indian festivals are enthusiastically observed and celebrated on campus.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

#### **4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)**

**Response:** 100

##### **4.1.3.1 Number of classrooms and seminar halls with ICT facilities**

**Response:** 62

File Description	Document
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

#### 4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)

**Response:** 16.21

##### 4.1.4.1 Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
70.336	125.067	174.876	59.047	37.44

File Description	Document
Upload Details of budget allocation, excluding salary during the last five years (Data Template)	<a href="#">View Document</a>
Upload audited utilization statements	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>

## 4.2 Library as a Learning Resource

### 4.2.1 Library is automated using Integrated Library Management System (ILMS)

**Response:**

The library of the college is situated at a place which is easily accessible by all the students and staff. It has adequate number of terminals to facilitate searching/accessing e-resources, web browsing and for other academic work. The library has also facility for downloading/printing of materials from other various resources. Our library is equipped with modern technology and upgrades and whenever new technology emerges. All the Departments of the college have a separate department library having access to the students/staff. The Information regarding new arrivals is publicized on the notice board. Our Library is automated using a Software, E-CAP Library (Version 10.0.9.24) to automate the library. A library management system (LMS) is an enterprise resource planning system for libraries, used to track items owned, issued and returned. This system enables efficient library administration to cater user services.

This Software has the following modules:

- **Circulation Module** - It has the feature of lending materials to patrons and receiving them back. In the library circulation module provision is made to issue/return/renew for books circulation, non-print material circulation (CD, DVD, etc.) and serial circulation (Print Journals/Magazines).
- **Setting module** - It can generate the barcodes of the books, listing of books (by authors, publishers, and suppliers). The printing of member barcode can also be carried out in this module.
- **OPAC module** - It has also access of online Public Access Catalog for searching the library resources for finding the particular book, journal or handbook etc.

The OPAC module has many other added features along with it. In this OPAC module, the user can search for the library resources as a general search and as an advanced search. In general search, the availability of finding with the sorting of title, author, publication, keywords, and classification can be carried out, whereas in advance search, the searching can be done with various combinations like Title, Author, Publication Keywords, and Classification No.

Another feature available is the Accession Search in the OPAC module. In the Accession Search, search can also be done through the accession numbers provided without remembering the title or author of the book to be searched. With this added feature the accuracy and the speed of the searching a particular content enhances.

**ECAP aims at the immediate availability of data in required formats that ease the work of staff and management and increase transparency and accountability in administration.**

**The following features can be accessed by students and staff individually through E-CAP with individual login credentials:**

1. It has the feature of searching the availability of books by subject wise / author wise/ course wise.
2. It gives the account information like books taken and due date to return.
3. It also gives the information about the library fine amount to be paid for books if not returned on time.

**Some of the additional features available in the library services are as follows-**

1. Free WI-FI, internet access, download and printout facilities have been provided.
2. Organization of Book Exhibitions/Display of New Books
3. A proper system of feedback from users to improve library services.
4. system of recommendation for the purchase of books through departments

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for Additional Information	<a href="#">View Document</a>

#### **4.2.2 The institution has subscription for the following e-resources**

##### **1.e-journals**

- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases
- 6.Remote access to e-resources

**Response:** A. Any 4 or more of the above

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Details of subscriptions like e-journals, e-ShodhSindhu, Shodhganga Membership , Remote access to library resources, Web interface etc (Data Template)	<a href="#">View Document</a>

#### 4.2.3 Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)

**Response:** 14.65

##### 4.2.3.1 Annual expenditure of purchase of books/e-books and subscription to journals/e- journals year wise during last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
7.78	22.033	2.58	3.34	37.5

File Description	Document
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the last five years (Data Template)	<a href="#">View Document</a>
Audited statements of accounts	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 4.2.4 Percentage per day usage of library by teachers and students ( foot falls and login data for online access) during the latest completed academic year

**Response:** 15.62

##### 4.2.4.1 Number of teachers and students using library per day over last one year

**Response:** 563

File Description	Document
Details of library usage by teachers and students	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 4.3 IT Infrastructure

### 4.3.1 Institution frequently updates its IT facilities including Wi-Fi

#### Response:

The institution has a good state-of-the-art infrastructure to meet the educational requirements of the students. The entire campus is optically networked between the buildings using the cables for connectivity. In addition, a Wi-Fi facility is provided in all the buildings. In addition to each building /department, other important places like Examination Centre, Research Centre, Placement Cell, and Library are connected with uninterrupted internet facility. The institute continuously keeps upgrading the internet bandwidth as the latest teaching methods demand the usage of **MOOCS/NPTEL/HACKTHON/Webinars etc.** AP CM Skill Excellence Centre, with 37 core i5 & core i7, 16GB RAM laptops for skill-based technical training, was established in association with APSSDC. The college has an internet facility with a leased line from BSNL with 100Mbps. The server room of the main computer centre has multiple servers namely: Windows, Linux, Oracle database, NPTEL and Vyatta server. Software installation, regular system maintenance, and software upgrading are taken care of on a routine basis by the respective department computer technicians. A separate server with an HDD is being maintained exclusively for NPTEL video streaming within the campus. The institute keeps upgrading the software packages and also purchases software currently being used in the industry to make the student's industry ready. The faculty members, carry laptops connected to the LCD projector with a Wi-Fi facility. For better visualization of the subject topics, the faculty is encouraged to use the ICT facilities. Also, the students are supported by the faculty to present their seminar topics using the ICT facilities. The institution also conducts mock examinations under our Campus Recruitment Team through Moodles. The computer laboratories are equipped with the latest configuration systems and required software and are available to all. Our college has very strong IT support, which takes care of the updates of its IT facilities in terms of hardware and software upgrades and the installation of new Wi-Fi devices. All the LCD projectors are implemented with audio-visual systems in our institute.

**The details of up-gradation that has taken place over the last five years are shown below:**

- 1.Procured 100 Lenovo M70c (Intel Core i3, 8 GB RAM, 256 GB SSD) Desktop Computers in 2020-21.
- 2.Procured 320 Lenovo V530 (Intel Core i3, 8 GB RAM, 256 GB SSD) desktop computers in 2019-20.
- 3.Procured 451 Zebronics (Intel Core i5, 8 GB RAM,320 GB HDD) and Foxin (Intel Core 2 duo, 2 GB RAM,320 GB Hard disk) desktop computers in 2018-19.
- 4.Procured 20 LCD projectors in last five years for classrooms, seminar halls, conference halls and laboratories.
- 5.Procured 1 UPS and Battery in 2018-19.
- 6.Procured 3 Software's for Electronics and Communication Engineering in 2017-18.
- 7.Procured ECAP ERP software in 2017-18.

- 8.Procured 12 Wi-Fi Access Points in 2019-20 for the wireless access facility.
- 9.Procured 1 Copiers in 2018-19.
- 10.Procured 4 Copiers in 2020-21.
- 11.Procured 3 printers in 2017-18 & 2018-19.
- 12.An Electronic surveillance system with 150 cameras was deployed in the campus.
- 13.Procured 2 Digital Interactive Boards for smart classrooms in 2019-20.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

#### 4.3.2 Student - Computer ratio (Data for the latest completed academic year)

**Response:** 4:1

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Student – computer ratio	<a href="#">View Document</a>

#### 4.3.3 Bandwidth of internet connection in the Institution

**Response:** A. 750 MBPS

File Description	Document
Upload any additional Information	<a href="#">View Document</a>
Details of available bandwidth of internet connection in the Institution	<a href="#">View Document</a>

### 4.4 Maintenance of Campus Infrastructure

#### 4.4.1 Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)

**Response:** 29.99

##### 4.4.1.1 Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year-wise during the last five years (INR in lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
96.23	185.85	200.93	228.39	180.97



File Description	Document
Upload any additional information	<a href="#">View Document</a>
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	<a href="#">View Document</a>
Audited statements of accounts	<a href="#">View Document</a>

#### **4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.**

##### **Response:**

The college has built an eccentric atmosphere for educational pursuits. It takes a lot of struggle to have contemporary physical facilities. The maintenance of the building is handled by a distinct department. All departments have distinct protocols for upholding their equipment. The faculty member in charge of each laboratory is accountable for its running. For the repair of unconventional equipment, suitable AMCs are engaged. The Librarian retains the library, which is supervised by the Library Commission. This committee is in charge of processing the specifications. All sports facilities, including the Gymnasium, are overseen by the Physical Director. The computers are adequately examined and maintained, and the software is adjusted in accordance with the necessities. The maintenance of ICT equipment used for teaching and learning is habitually prioritized. Generators are on hand at the college to ensure that classes and laboratory assemblies are not disrupted by power outages. The institution takes special care and plans activities to ensure that physical resources are used to their full potential. Pupils at this engineering school are also concerned with the upkeep of air conditioners, power apparatus, and transport. The college has a sufficient workforce to retain the campus, including its physical facilities, in decent condition.

Each department has the essential number of classrooms to maintain a steady instructional timetable. Every classroom has been considerably designed and is well-ventilated. Each classroom is equipped with multimedia equipment. The housekeeping team at the institute keeps the classrooms clean and well-maintained. The classroom monitors are keeping a close eye on this. Seldom are classrooms equipped for competitive exams from both government and private establishments. Each department has a satisfactory number of laboratories furnished with cutting-edge equipment, which progresses and fosters an ideal training and learning atmosphere. And each lab has a lab-in-charge and a lab associate who are in care of frequently maintaining, informing, and servicing the apparatus. For inter-building connectivity, the campus has an optical fiber backbone, and each building has its own LAN. The computer centre also hordes online exams, aptitude tests, and other competitive exams. The Network Commissioner is in charge of the institute's server space, as well as networking and device maintenance. The Librarian and his workforce retain the library in decent functioning order, with aid from the library committee, which acts as a conduit for feedback. A campus maintenance squad is in charge of observance the library clean. The department libraries are managed by the department faculty. The central library has a devoted workforce and maintenance team for the in-charges of the appropriate departments, as well as for assistance and repairs. A barcode scanner is used to check inventory. Female pupils and employees have access to restrooms at the establishment. With health and hygiene as a highest importance, the institute built vending machines for

sanitary napkins and proper disposal of used ones. Yoga and meditation centers will benefit both faculty and students' physical and mental health.

The institute has a enjoyable play area with equipment for games and sports such as cricket, basketball, volleyball, and throwball, among others. A gym with a certified and professional Physical Director is also existing. Indoor games such as TT, Carom, Chess, and Snooker are available to pupils. Students who are involved in sports will use the sports complex's equipment. Students and faculty have access to a medical center on campus. A full-time doctor is on staff to lever medical crises. A medical associate, a lady associate, and an ambulance are part of the emergency response team. A first-aid kit is accessible in each department's laboratory. The institute's environment is retained clean and green, and all conveniences such as drinking water, restrooms, gardening, and power are accessible 24 hours a day, seven days a week, thanks to dedicated housekeeping staff. Borewells, dedicated water tankers, a RO plant, a sewage treatment plant (STP), and a rain harvesting scheme help them. Suggestions, surveys, and grievance catalogues provide the essential course correction mechanisms to ensure maximum satisfaction.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>



## Criterion 5 - Student Support and Progression

### 5.1 Student Support

#### 5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during last five years

**Response:** 69.38

##### 5.1.1.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2020-21	2019-20	2018-19	2017-18	2016-17
2271	2210	2374	2284	2338

File Description	Document
upload self attested letter with the list of students sanctioned scholarship	<a href="#">View Document</a>
Upload any additional information Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years (Data Template)	<a href="#">View Document</a>

#### 5.1.2 Average percentage of students benefitted by scholarships, freeships etc. provided by the institution / non- government agencies during the last five years

**Response:** 43.6

##### 5.1.2.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2020-21	2019-20	2018-19	2017-18	2016-17
1183	1080	1373	1607	1975

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Number of students benefited by scholarships and freeships institution / non- government agencies in last 5 years (Date Template)	<a href="#">View Document</a>

**5.1.3 Capacity building and skills enhancement initiatives taken by the institution include the following**

1. Soft skills
2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. ICT/computing skills

**Response:** A. All of the above

File Description	Document
Details of capability building and skills enhancement initiatives (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link to Institutional website	<a href="#">View Document</a>

**5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years**

**Response:** 44.58

**5.1.4.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
2308	1377	1772	1151	801

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**5.1.5 The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases**

- 1.Implementation of guidelines of statutory/regulatory bodies**
- 2.Organisation wide awareness and undertakings on policies with zero tolerance**
- 3.Mechanisms for submission of online/offline students' grievances**
- 4.Timely redressal of the grievances through appropriate committees**

**Response:** A. All of the above

<b>File Description</b>	<b>Document</b>
Upload any additional information	<a href="#">View Document</a>
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	<a href="#">View Document</a>
Details of student grievances including sexual harassment and ragging cases	<a href="#">View Document</a>

## **5.2 Student Progression**

**5.2.1 Average percentage of placement of outgoing students during the last five years**

**Response:** 38.34

**5.2.1.1 Number of outgoing students placed year - wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
592	379	314	288	141

<b>File Description</b>	<b>Document</b>
Upload any additional information	<a href="#">View Document</a>
Self attested list of students placed	<a href="#">View Document</a>
Details of student placement during the last five years (Data Template)	<a href="#">View Document</a>

**5.2.2 Average percentage of students progressing to higher education during the last five years**

**Response:** 6.26

#### 5.2.2.1 Number of outgoing student progression to higher education during last five years

Response: 62

File Description	Document
Upload supporting data for student/alumni	<a href="#">View Document</a>
Details of student progression to higher education (Data Template)	<a href="#">View Document</a>

#### 5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)

Response: 100

##### 5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations, etc.)) year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
15	38	8	6	10

##### 5.2.3.2 Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
15	38	8	6	10

File Description	Document
Upload supporting data for the same	<a href="#">View Document</a>
Number of students qualifying in state/ national/ international level examinations during the last five years (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 5.3 Student Participation and Activities

**5.3.1 Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.**

**Response:** 44

**5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as one) year-wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
10	11	5	11	7

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national/international level during the last five year	<a href="#">View Document</a>
e-copies of award letters and certificates	<a href="#">View Document</a>

**5.3.2 Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities following duly established processes and norms (student council, students representation on various bodies)**

**Response:**

The **Students of Aditya College of Engineering and Technology** are adequately represented in various forums that are empowered to arrange events and thereby display their leadership skills. The students have representation in the committees of various associations and social clubs within the campus. In consultation with the Principal, the HOD's, faculty, and students of the respective departments choose the college committee coordinators.

- The student council is a central 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.
- Students are empowered through the various clubs and associations within the Institution. These clubs are active under the coordination of senior faculty. **Eco club, Community club, Health club, Language club** work actively within the campus.
- **Language 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 one's under this club. Health Club is determined to form awareness regarding HIV by conducting awareness camps. This club also focuses on the importance of food and nutrition,

especially in nearby rural areas. The student members of the health club are active in organizing and gathering students and faculty for Blood Donation Camps.

- The coordinators and club members of the **ECO Club** have undertaken various environmentally-friendly activities like awareness programmes on the damage caused by plastic usage and free distribution of tree saplings. The community club focuses on improving harmony among students of assorted Indian cultures. These various clubs nurture the students towards their career improvement, personality development, and well-being and conduct an awareness program on literacy
- Different committees are formed for the smooth functioning of the institution viz. **Academic Committee, Anti-Ragging Committee, Canteen Committee, Career Counselling Committee, Cultural Committee, Ethics Committee, E-Resources Committee, Hostel Committee, Library Committee, Publication Committee, Purchase Committee, Sports Committee, Transport Committee, and Website Committee.**
- **The Internal Complaints Committee (ICC)** of the institution has been constituted to empower and safeguard the rights of female faculty and students. The ICC works for the welfare of female students towards preparing them into competent professionals. The student members in ICC give information about the ground realities which is very much useful in addressing student grievances. The Grievance Redressal Committee addresses the student problems in academics and personal grievances within campus and the hostel.
- **The Alumni Association** discusses the career opportunities in the real-world competition. The website committee is useful to convey information about the different activities conducted within and outside the campus.

File Description	Document
Paste link for additional information	<a href="#">View Document</a>

### 5.3.3 Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)

**Response:** 13.6

#### 5.3.3.1 Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
5	10	18	19	16

File Description	Document
Report of the event	<a href="#">View Document</a>
Number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions (Data Template)	<a href="#">View Document</a>

## 5.4 Alumni Engagement

### 5.4.1 There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

#### Response:

#### Alumni Coordination Cell

The Alumni Coordination Cell (registration and functional) contributes significantly to the development of the institution through financial and other support services.

The prestige and pride of our college is the great marvelous contribution by our Alumni through the ACETAWA i.e., Aditya College of Engineering & Technology Alumni Welfare Association. The mission of the Alumni Association is to foster mutually beneficial relationship between the Institute and its alumni.

#### Objectives:

- To maintain contact of alumni.
- To update contacts of alumni.
- To maintain and update alumni coordination cell website.
- To communicate the college events to the alumni.
- Invite alumni to the campus to take their ideas for the improvement of the institute.
- To request the alumni to extend their contribution towards the development of the institution.
- To take up help of alumni for higher education.
- To conduct career guidance sessions with the alumni.
- To explore internship opportunities with alumni.

#### Alumni Meet:

The alumni meet is conducted once in a year, wherein the passed-out students of under graduate and post graduate programs share their views with their juniors and give suggestions towards the betterment of overall development including curriculum.

#### Alumni Contributions:

- The alumni frequently visit the institution and deliver guest lectures on career guidance in their



areas of expertise and motivate the young minds.

- Alumni are included as members in the elective subject selection. They are invited for meetings at the college and they interact with their teachers and express their suggestions on curriculum.
- The alumni support in many ways such as giving suggestion, feedback on existing Curriculum, updates on emerging trends, etc through various networking platforms.
- The alumni frequently visit the institution and contribution financial support to the students like books and project work materials.

#### **Our Alumni:**

Some of our Alumni working in reputed organization like power grid corporation of India, Govt banks like Canara bank, Lakshmi vilas bank. And other are working in reputed software companies like Amazon web services, Accenture, Samsung, Juspay, Qualcomm, TCS and ICICI .we are very proud that, one of our alumni is owner of a startup company

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

#### **5.4.2 Alumni contribution during the last five years (INR in lakhs)**

**Response:** A. ? 5 Lakhs

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Link for any additional information	<a href="#">View Document</a>



## Criterion 6 - Governance, Leadership and Management

### 6.1 Institutional Vision and Leadership

#### 6.1.1 The governance of the institution is reflective of and in tune with the vision and mission of the institution

##### Response:

##### Vision

To induce higher planes of learning by imparting technical education with

- International standards
- Applied research
- Creative Ability
- Value based instruction and to emerge as a premiere institute

##### Mission

Achieving academic excellence by providing globally acceptable technical education by forecasting technology through

- Innovative Research and development
- Industry Institute Interaction
- Empowered Manpower

Aditya College of Engineering & Technology is headed by the Principal and is supported by the Dean, the Heads of the Departments, and Coordinators of other Committees. The Institution functions with the support of Internal Quality Assurance Cell (IQAC), Examination Section, Research and Development (R&D), Proctoring, Training and Placement (T&P) Cell, and other committees. The Heads of the various Departments identify the needs and requirements of the Departments which are then routed through the Purchase Committee for its view and suggestions to the concerned Heads and the Principal. The proposals are submitted to the Governing Body for its approval. Stakeholder opinions are taken into account while identifying gaps and proposing value-added courses. Stakeholders are also invited to participate in various committees, depending on the need, and their opinions are taken into account.

The institution provides an exceptional education for people from all walks of life, regardless of their social status, gender, religion, or caste. The institution arranges a variety of programs to educate students about social concerns, gender bias, nature, and the environment in collaboration with internal committees, each of which is led by the Committee Coordination and its members. Parallel to regular academic activities, the Institution has substantial state-of-the-art infrastructure for curricular, extracurricular, and sports activities. Aside from these, the Institution hosts conferences, seminars, symposia, and other events. The Institute's faculty and students are encouraged to participate in research and development activities. The institution strives to develop students into successful entrepreneurs, software professionals, and students who wish to pursue higher education in India and abroad.

File Description	Document
Paste link for additional information	<a href="#">View Document</a>

### **6.1.2 The effective leadership is visible in various institutional practices such as decentralization and participative management**

#### **Response:**

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, the administrative setup functions with a decentralized decision making at all levels. 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 organizes 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 the Principal, the HODs and faculty are encouraged to give suggestions that help in the growth of the organization. Faculty members are made part of the 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 are 33 committees that work together to explore opportunities, plan, organize, implement, and oversee all of the institution's activities. Even at the departmental level, the decentralized mechanism exists. 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 and every faculty member will be a part of at least one or more committees. The stakeholders of the institute – Faculty members, Students, Parents, Alumni, and Employers have a participative role in these committees.

Feedback taken from all stakeholders is very important in developing and modifying Institute policy. Internal Quality Assurance Cell (IQAC) develops a perspective plan based on feedback from all stakeholders. This plan is presented to Governing Body for discussion and approval. The Institution's policy encourages all employees to participate in decision-making and the implementation of the decentralized decision-making policy. Various committees at the Institute level are constituted to oversee academic and administrative activities that lead to the realization of the Institute's vision and goal.

This presents that the institution's administration is decentralized through committees and that the management is participative.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

## 6.2 Strategy Development and Deployment

### 6.2.1 The institutional Strategic / Perspective plan is effectively deployed

#### Response:

#### Institutional Strategic Goals

At the beginning of the academic year, various bodies and committees that constitute the Organogram of the institute, chalk out the strategic plan of events and activities which will support the growth and development in these key areas and at the end of the year, a review is taken about implementation and the outcomes of the perspective plans. One such broad area in which the Institutional Perspective and Strategic Plan has been successfully implemented is that of Teaching, Learning and Research. This has been achieved through the deployment of Action Plan for the following initiatives:

1. Efficient Teaching erudition procedure
2. Effective Leadership and Participative management
3. Continuous Internal Quality Assurance System
4. Ensuring effective governance
5. Student's Overall Development through Participation
6. Employees Advancement & Welfare
7. Escalating Placements
8. Proper Discipline
9. Women/Student/Faculty Grievance
10. Financial Planning & Management
11. Institute – Industry Interaction
12. Encouragement of Budding Entrepreneurs
13. Constant Growth in Research and Development
14. Alumni Interaction and Outreach activities
15. Mounting Physical Infrastructure

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

### 6.2.2 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules and procedures, etc.

## **Response:**

### **Vision**

**To induce higher planes of learning by imparting technical education with**

- International standards
- Applied research
- Creative Ability
- Value based instruction and to emerge as a premiere institute.

### **Mission**

**Achieving academic excellence by providing globally acceptable technical education by forecasting technology through**

- Innovative Research And development
- Industry Institute Interaction
- Empowered Manpower

**Web Link:** <http://acet.ac.in/?p=Vision-Mission>

### **Goals - Short Term**

- Achieving academic success by obtain a passing grade in all semesters of all programmes of the University Examination.
- Generating active research promotion among staff and students which results in national and international publications.
- Providing placement to all eligible students through the development of soft skills, technical ability, and domain knowledge.
- Improving leadership quality of Staff members and Students by involving them in college-level committees, thereby grooming them to work autonomously.
- Memorandums of Understanding with prominent industries to improve Industry-Institution relations which help in student placements, internships, projects, in-house training, and knowledge transfer on current technologies.

### **Goals - Long Term**

- To make all Departments as Research Centre recognized by the University
- To attract more grants from funding agencies viz. AICTE, DST, SERB, MSME etc.,
- Aiming towards getting accreditations from NBA & achieve Autonomous status

### **Quality Policy**

**The Institute is committed to creating and improving the teaching-learning process through the following quality initiatives**

- Innovative methods in teaching and learning process

- Provide a good academic and research environment to students and faculty for complete real-time learning experiences
- Industry collaborations
- Inculcating moral and ethical values among the students and staff

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>
Link to Organogram of the Institution webpage	<a href="#">View Document</a>

### 6.2.3 Implementation of e-governance in areas of operation

- 1.Administration
- 2.Finance and Accounts
- 3.Student Admission and Support
- 4.Examination

**Response:** A. All of the above

File Description	Document
Screen shots of user interfaces	<a href="#">View Document</a>
ERP (Enterprise Resource Planning) Document	<a href="#">View Document</a>
Details of implementation of e-governance in areas of operation, Administration etc	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 6.3 Faculty Empowerment Strategies

### 6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

**Response:**

The teaching and non-teaching staff play a vital role in the growth of the institute and therefore the college is recognizing their productiveness and acknowledges their needs and requirements. As a result, the institution is implementing various effective welfare schemes. These welfare measures enrich the physical and mental health of the employees and thus promote a dynamic and encouraging work atmosphere. This stimulates employee productivity and commitment towards the institute. The following list shows the various welfare structures:

- 1.Children of our faculty who are all studying in our group of institutions are eligible for a 50% tuition cost reduction.

2. The college has a canteen that serves quality meals at a discounted rate to both teaching and non-teaching personnel.
3. Three sets of uniforms per year and other safety gadgets for non-teaching staff, security, scavengers, attenders, drivers
4. Group insurance policy to all teaching and non-teaching staff
5. Residential Quarters on nominal rent for teaching staff.
6. Provision of exclusive transport facility for teaching and non-teaching staff from various parts of the city.
7. Extension of ESI benefits to non-teaching staff.
8. Rs 10000/- for medical support to the COVID-19 affected faculty.
9. Employee Provident Fund (EPF) is applicable to some of the staff of our college from their date of joining the institution.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

### **6.3.2 Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years**

**Response:** 42.52

#### **6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
145	149	6	41	19

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Details of teachers provided with financial support to attend conference, workshops etc during the last five years	<a href="#">View Document</a>

### **6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years**

**Response:** 33.6

#### **6.3.3.1 Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
28	32	32	37	39

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff	<a href="#">View Document</a>

#### **6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course ).**

**Response:** 46.33

##### **6.3.4.1 Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
159	156	42	26	10

File Description	Document
Upload any additional information	<a href="#">View Document</a>
IQAC report summary	<a href="#">View Document</a>
Details of teachers attending professional development programmes during the last five years	<a href="#">View Document</a>

#### **6.3.5 Institutions Performance Appraisal System for teaching and non-teaching staff**

**Response:**

##### **Institutions Performance Appraisal System for teaching and Non-teaching staff:**

The success of any Educational Institution depends on the quality of its staff- both Teaching and Non-teaching. Together they play a significant role and are the backbone of the Institution. Institutions cannot achieve their goals “Vision and mission” without them. To achieve the targets, the staff need to be motivated towards their work. The Performance Appraisal (PA) is one of the performance management tools that are widely used to measure the productivity of staff in different contexts.

## **Performance appraisal for teaching staff**

The faculty appraisal is undertaken with following objectives:

- To assist teachers in their professional development and career planning.
- To assist teachers to reflect about their potential and to carry out their duties more effectively
- To provide judgment to support promotions
- To provide feedback to staff about their behaviour, attitudes, skills or subject expertise
- To recognise the achievements of teachers and help them to identify ways of improving their knowledge, skills, attitudes and ultimately performance.
- To improve the quality of education for students

In short, it would be utilized as a tool to facilitate growth, development, efficiency and effectiveness of the teaching-learning process in the Institution.

Name, qualifications, experience, subjects taught, results, feedback of the students, pass percentage, mentoring, discipline, conferences/workshops attended, books published, research publications in conferences and journals, administrative responsibilities taken along with the remarks of HOD and the Principal will be considered for the appraisal of teaching staff.

### **The process of appraisal comprises of two parts:**

A. Self-appraisal format to be filled by every faculty.

B. Appraisal by HOD & Principal: This would also involve a review of the self-appraisal documents submitted by the faculty.

## **Performance appraisal for non-teaching staff:**

The employee appraisal is undertaken with following objectives:

- To assist employees to reflect about their potential and to carry out their duties more effectively
- To provide feedback to staff about their behaviour, attitudes, skills or subject-expertise
- To recognise the achievements of employees and help them to identify ways of improving their knowledge, skills, attitudes and ultimately performance.
- To assist employees in their professional development and career planning.

In short, it would be utilized as a tool to facilitate growth, development, efficiency and effectiveness of the administration and facility management process in the institution. Name, qualifications, experience, discipline and responsibilities taken along with the remarks of Lab In charge and HOD will be considered for the appraisal of non-teaching staff.

### **The process of appraisal comprises of two parts:**



1. Self-appraisal format to be filled by every non-teaching faculty
2. Appraisal by Lab In charge and & HOD

Appraisal formats are asked to fill-in by the staff members for self-evaluation and HOD will interact with every employee and remarks will be posted and forwarded to the Principal for evaluation. Final evaluation will be carried out by the panel consist the Management representative, the Director and the Principal and appraisal will be made in terms of increment/promotion based on the final evaluation.

<http://acet.ac.in/index.php?p=internalcell&category=&committeename=Internal%20Quality%20Assurance%20Cell#tab9>

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

## 6.4 Financial Management and Resource Mobilization

### 6.4.1 Institution conducts internal and external financial audits regularly

#### Response:

Internal audits are supervised by qualified Accountants, who ensure that all procedures and criteria established by management are strictly followed in the financial transactions. The accountants also ensure that transactions are recorded in accordance with purchasing processes and that purchases are approved by the appropriate authorities. Accountants conduct the procedural transaction and compliance audits and present reports to management with their comments, observations, and recommendations for corrective actions to guarantee proper compliance based on their findings.

Internal and external audits are carried out twice a year and once a year, respectively. The reports of the External and Internal Auditors are reviewed by the management and given to the appropriate internal auditors in order to implement the required changes in the areas identified. Aditya College of Engineering & Technology guarantees that correct financial checks and balances are in place, as well as ensuring transactions are properly recorded in books with proper authorization.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

### 6.4.2 Funds / Grants received from non-government bodies, individuals, philanthropers during the last five years (not covered in Criterion III)

Response: 0

6.4.2.1 Total Grants received from non-government bodies, individuals, Philanthropers year wise during the last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

File Description	Document
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the last five years	<a href="#">View Document</a>

### 6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

#### Response:

Aditya College of Engineering & Technology being a private institution, the major source of funds is collected in the form of tuition fees from students, examination fees and management contribution for the effective functioning of the Institution. Apart from this any additional expenditure or any deficient funds will be borne by the Sarojini Educational Society. The Institution keeps audit reports in accordance with the State Government's rules.

**Tuition fee:** The major source of the income for the institution is the tuition fee of the students.

**Transportation fee:** The transportation fee is collected from the students for providing bus facilities to the remote students.

**Hostel fee:** The students coming from other parts of the state and also from other states and countries are provided with in-house hostel facilities for both boys and girls in separate buildings.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

## 6.5 Internal Quality Assurance System

**6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes**

#### Response:

The Internal Quality Assurance Cell (IQAC) was established in Aditya College of Engineering & Technology in the year 2015 as a post-accreditation quality provisions measure, in accordance with the National Action Plan of the National Assessment and Accreditation Council (NAAC), Bangalore, for performance evaluation, assessment, accreditation, and quality up gradation of higher education institutions. From then onwards IQAC is an integral part of the institution working with a goal towards the development and quality enhancement in various aspects. IQAC is involved in all the college level committees and professional bodies where academic, administrative and student centric programs are in progress.

IQAC plays a major role in the participation of NIRF and also in the other Institution ranking by various organizations like Career 360, T-School survey by Data Quest, The Week survey.

IQAC conducts Institutional Annual Academic Audit and also encourages the faculty to participate in various National & International Conferences and also to attend various development programs conducted by other reputed Institutions. IQAC takes necessary initiatives to encourage faculty members to do the Certifications programs conducted by organizations like NPTEL – Swayam, Coursera, Redhat Academy, Oracle Academy and AWS Academy to improve the quality of teaching.

As one of the best practices IQAC has initiated is the incentives policy to faculty members who have published research articles in Journals with good Impact Factor and also in the Journals which are indexed by Scopus, Web of Science and SCI.

As another best practice IQAC has initiated the culture of publishing research articles by the undergraduate as well as postgraduate students. IQAC also conducts the annual Technical Fest to the students named “VEDA” in memory of Sir Mokshagundam Visweswarayya. As a quality measure IQAC insists the faculty members and students to use the College Learning Management System (MOODLE) and also initiated the policy towards converting the classrooms as ICT enabled classrooms.

IQAC also initiated the culture of Startups and Entrepreneur Development among the students. Startups like 3Dclix, Karanam Technologies, Agumentik, Picshorts Pvt. Ltd have evolved from our College.

IQAC also initiated the student Internship program in the Institution to the students of 2nd and 3rd year, so that the students are exposed to the real time challenges in the industry and there can be drastic change in the thinking ability of the students.

IQAC has initiated an activity towards enhancing skill sets of students of all programs by making them to participate in the programs conducted by Andhra Pradesh State Skill Development Corporation (APSSDC) and also an MoU is signed between our College and APSSDC, in addition to this another MoU is also signed between our College and Centre of Excellence in Maritime and Shipbuilding (CEMS).

Prepares the Annual Quality Assurance Report (AQAR) to be submitted to NAAC based on the quality parameters. Through all these measures IQAC happens to be one of the important components of the College driving towards the quality enhancement.

File Description	Document
Paste link for additional information	<a href="#">View Document</a>

**6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities ( For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives )**

**Response:**

### **Teaching Learning Process**

Aditya College of Engineering & Technology is affiliated to JNTUK, Kakinada. The University revises the regulation every three years and as per the regulations, the University releases Course structure and syllabus for each Undergraduate and Postgraduate programmes. Based on the syllabus released by the University, the Principal in association with Head of the Departments, IQAC, Academic Committee and Examination Committee will initiate a meeting to identify the changes in the new regulation in comparing with existing regulation. If any emerging courses are introduced, based on the requirements, the respective department has to initiate a Faculty Development Program (FDP). The Head of the Departments are instructed to complete the subject allocation based the priorities given by the faculty members.

### **Structures & Methodologies of operations**

All the faculty members have to prepare their lesson plan, course file before the commencement of the class work. The faculty members have to adopt teaching pedagogy which includes - Chalk & Talk, animations, slides, videos, web links, charts, models etc. During the semester, fortnight report on syllabus status is collected and a review meeting will be conducted by the Head of the Department to ensure uniform coverage of syllabus if required. The internal question papers are audited regularly in the department. Course end feedback is collected from all the students on the content, coverage and evaluation of answer scripts for each course. The ICT facilities are reviewed from time to time for its improvement. The students are encouraged to join and complete Certifications from reputed organizations such as NPTEL, HackerRank, Coursera etc.,

### **Learning outcomes**

The institute adopted Outcome-Based Education (OBE) and prepares Course Outcomes (CO), Program Outcomes (PO), and Program Specific Outcomes (PSO) for each programme. The JNTUK's Course Outcomes have been examined and will be amended to ensure that the syllabus's components are met. Students provide Course End Feedback and Programme Exit Feedback in order to improve the course content, delivery mechanism, and evaluation system. At the end of the semester, each course's attainment is calculated, and the Program Outcomes are then mapped and evaluated. These evaluations are helpful in providing the course with the necessary modifications for the following semester.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

**6.5.3 Quality assurance initiatives of the institution include:**

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements**
- 2.Collaborative quality initiatives with other institution(s)**
- 3.Participation in NIRF**
- 4.any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)**

**Response:** B. 3 of the above

File Description	Document
Upload e-copies of the accreditations and certifications	<a href="#">View Document</a>
Upload details of Quality assurance initiatives of the institution	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>
Paste web link of Annual reports of Institution	<a href="#">View Document</a>

## Criterion 7 - Institutional Values and Best Practices

### 7.1 Institutional Values and Social Responsibilities

#### 7.1.1 Measures initiated by the Institution for the promotion of gender equity during the last five years.

##### Response:

**“Gender refers to socially defined roles and behaviors for men and women. Gender equality is a basic human right and is described as ‘all human beings are born equal. It means that everyone, whether born as male, female or intersex, should be able to develop their full potential and live in freedom and dignity’”.**

Aditya College of Engineering and Technology (ACET) is committed to following GENDER EQUITY. ACET provided facilities for women staff and girl students as part of curricular and Co-curricular aspects of the institution for promoting gender sensitivity. ACET provided facilities like Common Rooms at Room Number:021,122-A,221,321, Visweswaraiah Bhavan and, Safety and Security by C.C camera surveillance, Women Security guards, Crèche at Room Number:004, Visweswaraiah-Bhavan, Counseling room at Room Number:019, Visweswaraiah-Bhavan and Other facilities like Sanitary Napkin vending and incinerator machines at common rooms, lift facility at the hostel, bus facility for girl hostel students, Computer lab and reading room, journals in the library for women like ANTYAJAA, Indian Journal of gender studies, and Indian Journal of Social Development, beauty-parlor for female students at hostels. ([http://acet.ac.in/?p=Gender\\_Equity\\_Facilities](http://acet.ac.in/?p=Gender_Equity_Facilities))

- Placements in ACET are equally provided for girl students and some placement drives are specially meant for girl students. ACET provided sports facilities, gymnasium, yoga programs for girl students for their mental and physical well-being. Girl Students actively participate in various sports like basketball, kabaddi, tennis, etc., and members of committees like ICC.
- Internal Complaints Committee (ICC) has been constituted in ACET with 9 members where Mrs.A.R.Vasanthas as presiding officer, 2 female teachers as coordinators, 1 NGO member, 1 female, and 1 male non-teaching staff as members and 2 girl students 1 boy student as members to associate the functions of Prevention of Sexual Harassment, Counseling, Grievance Redressal and Women empowerment for promoting gender sensitivity (URL: <http://www.acet.ac.in/?p=ICC>).
- ACET conducted 31 awareness programs for women staff and students for promoting gender equity. Programs like Awareness on “Women Safety at the workplace”, "PoSH- The What Why& How", "Crimes against Women", “Yoga for stress management and women health” etc. In the last five years, ACET conducted 31 gender sensitization programs. In which 9 programs are for the promotion of gender equity, 8 women-related topics are taken up for discussion and debates and 14 more programs are organized, to involve girl students in socially relevant incidents and other issues like health.
- As per the Govt. norms, Girl students are admitted to every department of ACET. Girl students of ACET were eligible and drawn scholarships from state and central governments Schemes like Jagananna Vidya Deevena (650), Jagananna Vasathi Deevena (650), central govt. CSSS (4 students), AICTE-Pragathi (4 students), Merit-Cum-Means (2 Students) and Post metric Scholarship (1 student).
- ACET involved women faculty active in research, guiding students in operating projects, Paper publishing, and research activities. ACET involved women staff in selection and Research

committees in various positions. Women faculty of ACET participated in Seminars, Workshops, Conferences, FDPs, and led various committees, like ICC and R&D, as conveners and members. ACET offered maternity leave to women staff for the maximum period of 180 days with full pay since the last five years, and 10 staff are benefited.

File Description	Document
Link for specific facilities provided for women in terms of: a. Safety and security b. Counselling c. Common Rooms d. Day care center for young children e. Any other relevant information	<a href="#">View Document</a>
Link for annual gender sensitization action plan	<a href="#">View Document</a>

#### 7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

- 1.Solar energy
- 2.Biogas plant
- 3.Wheeling to the Grid
- 4.Sensor-based energy conservation
- 5.Use of LED bulbs/ power efficient equipment

**Response:** A. 4 or All of the above

File Description	Document
Geotagged Photographs	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

#### 7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- Solid waste management
- Liquid waste management
- Biomedical waste management
- E-waste management
- Waste recycling system
- Hazardous chemicals and radioactive waste management

**Response:**

Management of the degradable and non-degradable waste

- Solid waste management
- Liquid waste management
- Biomedical waste management
- E-waste management
- Waste recycling system
- Hazardous chemicals and radioactive waste management.

## **Introduction for Waste Management:**

Aditya College of Engineering & Technology has designed a technique for the management of waste generated on the campus using the basic waste management strategy such as Reuse Reduce and Recycle. The wastes generated on the campus include liquid waste and solid waste- both biodegradable and non-biodegradable in nature. No classified hazardous waste is generated on the campus. The environmental policy of the institute is to achieve zero discharge and complete utilization of waste with well-designed strategies to make the campus clean, hygienic, and healthy.

### **1. Solid waste management:**

Aditya College of Engineering and Technology took major steps to manage the waste to protect and create a clean and pleasant environment. The college has 20 members team for housekeeping. Every day they regularly collect an average of 110 kg solid waste from the dust bins placed on the campus including departments, administrative-office, canteens, hostel, and guest houses. The whole waste is segregated that can be used for composting which is dumped for vermicomposting. The vermicomposting unit requires biodegradable waste to convert as fertilizer that will be used for plants. The Paper waste from departments, libraries, administrative offices, Hostels is disposed of through vendors. Aditya promotes digital platforms to reduce the usage of paper for communication and sharing documents.

The waste management details are available at:[http://acet.ac.in/?p=Waste\\_Management](http://acet.ac.in/?p=Waste_Management)

### **2. Liquid Waste Management:**

The liquid wastes generated in the campus include Sewage, Laboratory, Laundry, hostel, and canteen effluent waste. The above waste is treated through a Pond set up in the institute with a capacity of more than 95000 KLD (Kiloliters per Day). The entire treated water is used for watering the gardens and lawns maintained on the campus. Therefore, the entire wastewater generated on the campus is treated and reused. The laboratory wastewater does not contain hazardous chemicals and periodical monitoring is done by the maintenance team.

### **3. E-Waste Management:**



Electronic goods are put to optimum use; the minor repairs are set right by the Laboratory assistants and teaching staff, and the major repairs are handled by the Technical Assistant and are reused. ACET has entered MoU with ELECTROPRO SYSTEMS. which buys our damaged computers and other non-reparable e-waste.

The MOU Website URL: <http://acet.ac.in/includes/committees/attachments/ELECTROPRO.pdf>

#### 4. Waste Recycling: Solutions for recycling.

- Electronic goods are put to optimum use. The minor repairs are set right by the laboratory assistants and teaching staff and the major repairs are handled by the technical assistants.
- Reusing the obsolete components in IT workshop for assembling and disassembling of computers.

File Description	Document
Any other relevant information	<a href="#">View Document</a>
Link for Geotagged photographs of the facilities	<a href="#">View Document</a>
Link for Relevant documents like agreements/MoUs with Government and other approved agencies	<a href="#">View Document</a>

#### 7.1.4 Water conservation facilities available in the Institution:

1. Rain water harvesting
2. Borewell /Open well recharge
3. Construction of tanks and bunds
4. Waste water recycling
5. Maintenance of water bodies and distribution system in the campus

**Response:** A. Any 4 or all of the above

File Description	Document
Geotagged photographs / videos of the facilities	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>

#### 7.1.5 Green campus initiatives include:

- 1.Restricted entry of automobiles
- 2.Use of Bicycles/ Battery powered vehicles
- 3.Pedestrian Friendly pathways
- 4.Ban on use of Plastic
- 5.landscaping with trees and plants

**Response:** A. Any 4 or All of the above

File Description	Document
Various policy documents / decisions circulated for implementation	<a href="#">View Document</a>
Geotagged photos / videos of the facilities	<a href="#">View Document</a>
Any other relevant documents	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>

**7.1.6 Quality audits on environment and energy are regularly undertaken by the Institution and any awards received for such green campus initiatives:**

- 1.Green audit
- 2.Energy audit
- 3.Environment audit
- 4.Clean and green campus recognitions / awards
- 5.Beyond the campus environmental promotion activities

**Response:** A. Any 4 or all of the above

File Description	Document
Reports on environment and energy audits submitted by the auditing agency	<a href="#">View Document</a>
Certification by the auditing agency	<a href="#">View Document</a>
Certificates of the awards received	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>

**7.1.7 The Institution has disabled-friendly, barrier free environment**

- 1.Built environment with ramps/lifts for easy access to classrooms.
- 2.Divyangjan friendly washrooms
- 3.Signage including tactile path, lights, display boards and signposts
- 4.Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment

**5.Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading**

**Response:** A. Any 4 or all of the above

File Description	Document
Policy documents and information brochures on the support to be provided	<a href="#">View Document</a>
Geotagged photographs / videos of the facilities	<a href="#">View Document</a>
Details of the Software procured for providing the assistance	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>

**7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words).**

**Response:**

**ADITYA COLLEGE OF ENGINEERING AND TECHNOLOGY-NSS Unit, cultural club and language club** organized and conducted various activities to promote tolerance and harmony towards cultural, regional, linguistic, communal, socio economic and diversities like social awareness, Gender equity and women empowerment in the college-neighborhood-community.

In order to bring awareness in the society, to understand the cultural and languages and to enlighten and remind the responsibilities that an individual and citizen of our country. The college took initiative to conduct programmes in college premises and nearby villages, schools and public places.

In social awareness, communal, Health care a total number of 12 programmes, in cultural aspect 62 programs while in promotion of linguistic harmony 10 programmes were conducted in last five years. In the aspect of health care NSS UNIT conducted 14 programmes that include blood donation camps, yoga, eye checkup, pulse polio, Covid Vaccination, Health and hygiene. The students and faculty participated actively. The main aim is to promote health consciousness among public to stay fit and active and also to achieve wellness within and in the community by maintaining good health and getting vaccinated when required. 4529 no of students participated in the activities conducted by NSS.

The programmes focused on sanitization, drug abuse, illicit trafficking, immunization, food distribution to the destitute, Pollution of plastic, Survey on open free defecation, gender sensitization among students and faculty, celebration of festivals, national and international days to bring harmony among people and learn new languages to mingle with the society.

Website links for the programmes <http://acet.ac.in/?p=allcommittees&category=NSS&committeename=NSS>

File Description	Document
Link for supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>

**7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).**

**Response:**

**ADITYA COLLEGE OF ENGINEERING AND TECHNOLOGY-NSS Unit, Ethics club** organized and conducted various activities for the sensitization of the students and the employees to the constitutional obligations – values , rights, duties and responsibilities of citizens in the college-neighborhood-community.

NSS Unit and Ethics club of ACET took initiative to bring awareness among the students, teachers and the society to inculcate the responsibilities that every individual of our country should follow to protect the nation's pride.

The NSS UNIT conducted total number of 25 programs and Ethics club organized 25 programmes in the last five academic years i.e. 2016-17 to 2020-21. The programmes were conducted on Social responsibility, constitutional responsibilities, environmental responsibilities and Ethical values. In the aspect of social responsibilities the main focus is laid on distribution of food, reminiscing 75 years of independence, supporting the frontline workers during pandemic, distribution of clothes to poor and needy. Whereas, in fundamental rights the students and faculty took the pledges of mygov.in, to understand the social responsibility and take initiative in serving the people and ensure the integrity of society. As a part of environmental responsibilities the students and faculty were involved in plantation and distribution of saplings, collection of plastic waste, to imbibe responsibility and protect nature. The programmes were conducted in the rural areas and villages to protect the green carpet, combat deforestation, soil erosion, global warming and promote vegetation for fresh and pure oxygen in environment, bringing awareness on ill effects of single usage carry bags and other harmful materials. Swachh Bharat abhiyaan is an initiative of government of India a cleanliness drive to maintain the ambience and surroundings clean. 4 Swachh Bharath programs were conducted involving 824 participants cleaning the college premises and visited nearby villages to bring awareness in public and participants about littering of waste, contamination of soil, land and water and cleanliness drives. Whereas, Ethics club conducted 25 programmes to nurture the students in the aspect of human values, educational values and social values to be responsible as an individual and follow the fundamental rights.

ACET always stands with pride in forefront to serve humanity, Nation, environment and Society for a peaceful and harmonious life.

File Description		Document
Link for any other relevant information		<a href="#">View Document</a>
Link for details of activities that inculcate values necessary to render students in to responsible citizens		<a href="#">View Document</a>

**7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.**

- 1. The Code of Conduct is displayed on the website**
- 2. There is a committee to monitor adherence to the Code of Conduct**
- 3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff**
- 4. Annual awareness programmes on Code of Conduct are organized**

**Response:** A. All of the above

File Description	Document
Details of the monitoring committee composition and minutes of the committee meeting number of programmes organized reports on the various programs etc in support of the claims	<a href="#">View Document</a>
Code of ethics policy document	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

**7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).**

**Response:**

The cultural committee is constituted in the organization with a core objective of upholding the core values of the institution, which is to contribute to the overall development of an individual capable of contributing towards the growth of the institution. The committee strives to celebrate the cultural diversity on the campus by organizing various cultural performances during festivals, commemorative days, and important days. The committee provides enough opportunities for the students to relax and enjoy campus life amidst rigorous academics.

The Cultural Committee of Aditya College of Engineering & Technology is responsible for keeping the

spirits alive on the campus by organizing a multitude of cultural activities throughout the year. Be it the celebration of almost every festival or the frequent open-air jamming sessions, we make sure that every event lasts in your memory for a lifetime. ACET celebrated a total number of **62 events, in the last 05 years** which created a cultured ambiance atmosphere in terms of behavior, attitude, and presentation aspects.

### **National Festivals**

Events like Independence Day, Republic Day, in a year are celebrated on ACET with a motto of promoting nationalism and patriotism in the students. Every year, these days are celebrated on campus, which makes the student community inculcate a feeling of attachment and commitment to a country, nation, or political community. and understand the sacrifices made by our great freedom fighters.

### **Important Days:**

Teacher's Day, Women's Day, and Engineer's Day are celebrated on campus to pay tribute to great personalities and also to appreciate their contributions of these famous personalities. This stands as a platform for the students to identify their roles and responsibilities. Women's Day is celebrated to witness a woman's success and raise awareness against bias. Engineer's Day is celebrated in remembrance and tribute to Mokshagundam Visvesvaraya, who is considered one of the greatest engineers in the country. It creates a spirit among students that engineers play a vital role in the development of a nation.

### **Religious Festivals:**

A festival is an occasion of enjoyment and celebration that promotes social interaction and harmony. ACET celebrates festivals like **PONGAL, DUSSERAH, CHRISTMAS, ONAM, and DIWALI**, which pave the way to celebrating glorious heritage, culture, and traditions. These festivals help students learn important principles and ethics. While celebrating these festivals, a feeling of love, tolerance, and understanding will be developed in the student community. On these occasions, we express our gratitude to God, for the special thing or event that originated on this particular festival.

### **Local Rituals:**

ACET interestingly celebrates local rituals like **Bhogi Mantalu, Utti kottatam, and Kolatam**, which tie the students to ancient culture and heritage. Students get connected with nature and the seasons in celebrating these. Also, the celebration of rituals helps the students carry a deeper level of consciousness.

### **National Integration:**

ACET celebrates days like **Rashtriya Ekta Diwas, International Student's Day, and International Girl Child Day**, which hold importance and eliminate certain challenges as students face around the world.

File Description	Document
Link for Geotagged photographs of some of the events	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>
Link for Annual report of the celebrations and commemorative events for the last five years	<a href="#">View Document</a>

## 7.2 Best Practices

**7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.**

**Response:**

### **Best Practice-I**

#### **1.Title of the practice**

Enrichment of Employability & Entrepreneurship Skills

#### **2.Objectives**

The main objective is to develop employability skills of students and make significant contribution to empower the society.

ACET is aimed to attain the following objectives

- 1.To attain 100% placement of students.
- 2.To improve skills of the students from basic level to advance level.
- 3.Continuous training programmes for students from first year (Aptitude tests & Communication skills) which helps them throughout their carrier.
- 4.To ensure quality and application oriented programme.
- 5.To conduct different skills development programmes for market requirements.
- 6.To build strong market competencies rather than mere qualifications.

#### **3.Context:**

In the present scenario, there is a dire need of well qualified and skilled employees to perform the tasks. The main goal is to leverage the employability skills and knowledge in multi disciplines with quality



output of the students to achieve highest salary/package through

- Collaboration with industry and the college
- Considering Student's goals and jobs.
- Long term skill enhancement programme
- Continuous training programmes with live projects.
- Hands on experience

## 4.The practice

Aditya College of Engineering & Technology (ACET) provides skill development and campus recruitment training programmes for the students from first year. It also encourages students to join NPTEL and APSSDC courses.

From the beginning of their course besides curriculum the students are oriented towards skills development programmes to meet the market needs and providing training in employability skills by the end of the course. It gives an opportunity to students to enhance their knowledge, core and soft skills to carve their future.

The institution strategically addresses the needs of students according to their interests and the skills required to be employed in a desired Job. The emphasis is laid on the technical, core and mental ability skills of the students.

The training programme comprises of the core and soft skills like Arithmetic, Aptitude, Reasoning, General Knowledge and English Language for Communication, Verbal Reasoning, Group Discussions, Interview Skills, Resume drafting, Inter and Intra personal skills such as personal and corporate etiquette, Time management and Goal setting.

Academic training system includes live projects, personality development, student certification and placement and job assistance programmes

The major steps undertaken to bag the job opportunities:

- The training programme runs in parallel with academic schedule
- From the first year weekly 1-2 hours' intensive training programme is given to prune the skills of students through online and offline mode.
- The training frame includes weekly assignments, practice tests, Badge tests, and final tests to check and analyze the performance and abilities acquired through the programme.
- From the second year a rigorous training programmes are designed to suit the market perspectives and student interests.

Innovative initiatives such as Cognizant Training on Technologies, Continuous Training on Industry Skills and Continual Scientific Assessment and Evaluation through CoCubes.com and AMCAT with a National perspective have been proving fruitful. Placement Companies (MNC) feedback is taken to upgrade training activity for future students.



## 5.Evidence of success

The positive feedbacks received from the companies are very encouraging and supportive. The students performed outstandingly in most of the companies over the years are the evidence of success and ACET has been made a choice of destination for campus recruitment by many companies. Despite, the covid-19 pandemic situation the placements attained by the students shows positive sign and excellent progress. Students' placements steadily increased. One of our student participated in global entrepreneurship week-2018 held at northeastern university, Boston, USA. Vertical direction and which is soilless by practicing hydroponics and geaponics techniques project (see Table 5).

Skills Training Programmes enabled the students to achieve in placements. Students' were placed in various reputed companies like aws, Mindtree, Accenture, Xenon stack, Amazon, DXC Technology, Wipro, Tata consultancy services, Value Momentum, Cap Gemini, techigai, digital trust, Mphasis, ADP, MAERSK, IBM, HEXAWARE, Infosys, Hexaview, MAQ software, keka technologies ( see table 4) placed every year. The minimum salary package of the students placed in different multinational companies with annual package ranging from 2.48 LPA to 19 LPA. (see Table 3) The eligibility of students for the campus placements gradually increased (see Table 1). Table 2 summarizes the Students skill certifications from NPTEL. Our institution always stood to empower the students providing training for placement and skill development to progress in their future.

Table 1: Employability information

S.No	Academic year	No of students Eligible	No of students got placement	Percentage %	
01	2016-17	393	141	35.87	
02	2017-18	460	288	62.60	
03	2018-19	501	314	62.67	
04	2019-20	517	379	73.30	
05	2020-21	629	592	94.11	

Table 2: NPTEL Data

Academic Year	Total students attended exam	Qualified Students	Successful Students	Elite	Elite +Silver	Elite +Gold	Elite Silver +Top 5%	

2016-17	2	2	2					
2017-18	89	49	43	6				
2018-19	287	234	177	45	8	3		
2019-20	196	94	41	32	18	1	1	
2020-21	16	5	2	2	1			

**Table 3: Average Package of Students with academic year**

S.NO	Academic Year	Average Package of students
01	2016-17	2.48 LPA
02	2017-18	2.60 LPA
03	2018-19	2.90 LPA
04	2019-20	3.55 LPA
05	2020-21	3.80 LPA

**Table 4: List of Companies & Students placed**

Academic Year	No of companies	Students Placed
2016-17	40	141
2017-18	43	288
2018-19	45	314
2019-20	57	379
2020-21	105	592

**Table 5: List of Entrepreneurs**

SNO	Entrepreneur Name	Registered company name	Address	Link
1	Mr. Bala Siva Tarun Karanam	Hydro Tribe Private limited	Innovation& TBI, Indian Institute of Information Technology Sri city, Chittoor, AP	<a href="https://www.iiits.ac.in/innovation-venture-tide2/current-startup">https://www.iiits.ac.in/innovation-venture-tide2/current-startup</a>
2	Mr. Krishn Kumar Mishra	Augmentik software private limited & Agumentik Educamp Private Limited	Hill No :3, IT- SEZ, Sunrise Startup Village Rd, Startup Village, Pedda Rushikonda, Rushikonda, Visakhapatnam, Andhra Pradesh 530048,	<a href="http://www.agumentik.com">www.agumentik.com</a>

## 6. Problems encountered and Resources required

- Most of the students are from rural background finds complexity in understanding spoken language of the trainers. Special classes are conducted to enhance the communication skills of the students.
- Quality, professional & committed trainers are required for the programme.

## Best Practice II

### 1.Title of the practice:

Student Support System (S3)

### 2.Objective:

The objectives are:

- 1.To enhance student-teacher relationship.
- 2.To counsel students' regularly will solve their problems that help to enhance student confidence in faculty.
- 3.To motivate students towards career oriented& Entrepreneurship programmes
- 4.To identify the slow learners, guide them towards academic & career prospectus.
- 5.To identify the advance learners and encourage towards their goals and ideas towards start-ups and entrepreneurship.

### **3.Context:**

This student support system is an overall development of the student in academic and career oriented. It is mainly introduced with a unique objective of knowing the student in person diagnose all about his abilities, strengths and weakness towards academic and career. Basing on this aspect, a very well designed mechanism is initiated which works for the overall development of the students. Regular student counseling involves proctoring, career oriented counseling, entrepreneurship counseling and startups.

The problems faced by the students in the past years are collected and designed a new mechanism for the overall development of the students in the college by student support system.

### **4.The Practice:**

Nearly 80% of students come to college from rural or village background. Most of the students are from low economic families. The uniqueness of the student support system in Aditya college of Engineering & Technology (ACET) is to reduce the gap between student and faculty not only improving in academics but also in placements. Both of them will collaborate and produces fruitful results for the development of the institute.

The S3 has been introduced in Aditya College of Engineering & Technology with the main objective to counsel students and continuous support to students in their academic, non academic and personal issues. Overall development of the students is possible through the support system. This system is continuous effective process that starts from first year to final year of the course. Proctoring students, student counseling, career counseling involves in the practice of student support system.

All teaching faculty of the college act as a proctor.The main duty of the proctor is to improve the student confidence; academic aspects, career guidance, sports, enterpreunship, extra- curricular activities & R&D activities.

Regular meeting with students and parents will be conducted by the faculty. The student progress will be updated to the parent through phone/e-mail by faculty. Student support system is a continuous process from first year to final year of course.

This process involves the following:

- Nearly 20 students are allotted one faculty. He will be the proctor for those student's upto their course.
- This process is incessant process, where the teacher & Head of the department are involved.
- Identifying the student's strengths and weakness.
- Complete student information is available in the proctoring book maintained by the faculty.
- Every month academic and attendance information related to student will send to parents. Illiterate parents will be informed through phone.
- Slow learning students are identified they will be given guidance in their appropriate subject.
- Every week students meet their faculty on stipulated time.
- Continuous career guidance will be given to students.
- Constant encouragement to students by counseling and motivating towards the career and academic perspective.
- Continuous support for students in participating in sports, curricular and extracurricular activities.
- Student academic and attendance monitored by the head of the department.
- Girl students cannot express their grievance to male faculty in such cases female faculty will be assigned.
- The faculty deals the psychological problems of the students and constant care is taken.

## 5.Evidence of Success

For a teacher the growth of the student is happiness and success. This process is truly a job satisfaction. The evidence of success for student service system is reflected in overall development of students in the college. (see table 1)

Evidence of success include students participated in sports, university ranks, increase in placements, higher education students, qualified in National/International level exams, enhanced participation in technical events conducted by National and International organizations, Entrepreneurships and Start-ups. Students successfully completed certifications from Swayam-NPTEL (see table 3).Students successfully started startups which turned into industries. (see table 4)

Table 1: Placement information

S.No	Academic year	Number of students got placement
01	2016-17	141
02	2017-18	288
03	2018-19	314

04	2019-20	379
05	2020-21	592

Table 2: Higher education-students

<b>Academic Year</b>	<b>Number of students</b>
2017-21	01
2016-20	15
2015-19	18
2014-18	17
2013-17	10

Table 3: Certified students from SWAYAM-NPTEL

<b>Academic Year</b>	<b>Total students attended exam</b>	<b>Qualified Students</b>	<b>Successful Students</b>
2016-17	2	2	2
2017-18	89	49	43
2018-19	287	234	177
2019-20	196	94	41
2020-21	16	5	2

Table 4: Student startups

<b>S.N</b>	<b>Name of the Student &amp; Department</b>	<b>Department</b>	<b>Startup name</b>
1.	Mr.Bala Siva Tarun Kumar	Mechanical Engineering	KARANAM TECH
2.	Mr. Polisetti BhaskarTeja	Civil Engineering	BABA ADZ

3	Mr.Nemani Sanjay	ECE	QQ ADS
4	Mr. Krishn Kumar Mishra	CSE	AUGUMETK SOFTWARE

Table 5: Students benefitted by guidance for Competitive Examinations and Career

Counselling

S.No	Academic Year	Number of students participated
01	2020-21	2341
02	2019-20	1377
03	2018-19	1772
04	2017-18	1443
05	2016-17	801

Table 6: Number of Qualifying in state/National/International level exams

Academic Year	2020-21	2019-20	2018-19	2017-18	2016-17
Number of students appeared	15	38	8	6	10
Number of students qualified	15	38	8	6	10

## 6. Problems Encountered and Resources required

- The college is situated in the rural area most of the students come from rural background Students are not rendering to this process.
- At starting stage students are not ready to express their feeling queries to the faculty as they are new to institute.
- Constant interaction with faculty the problem is reduced.

File Description	Document
Link for any other relevant information	<a href="#">View Document</a>
Link for Best practices in the Institutional web site	<a href="#">View Document</a>

## 7.3 Institutional Distinctiveness

**7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words**

## **Response:**

### **1. Platform for Placements**

Aditya College of Engineering and Technology has made its flag flying high with its record placements in the last five years. It stands as the leading edge empowering its student to be an employee during the completion of the course. The sculpting of the students starts from the first year of their course with well-designed training through various off-line and online programmes to keep the learners on track catering to the needs for employment in the training process besides academics. Much emphasis is laid on the skills development that really nurtures the students to improve Technical, Logical, Analytical, and Verbal skills. Above all, it grooms the personality of an individual to be confident and proficient to bag the opportunity. Industry institute collaboration cell is established with 10 training platforms to the learners to mould the students to be effective employees. Well-trained and experienced faculty prune the learners in required aptitude and soft skills. The process of vigorous training such as mock interviews helps the learner to experience and understand the prerequisites for the interview and employment. A proud number of 290 leading software and core companies visited the campus and a number of 1714 students were placed in different companies.

### **2. 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 ambiance and beauty that really makes one so immersed in 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 the renewable energy sources that is the solar panels fixed on academic buildings which also contribute to the saving of non-renewable resources. The canopy of trees carefully nurtured vegetation and the flora fauna present in the college premises clearly speak volumes about the sustainable environment. To maintain a sustainable environment waste management is implemented following the norms of the government from the collection to disposal of waste keeping in view of the bounty of soil and the living environment. Understanding the emergency of the scarcity of water the institution took a major step in conserving water utilization. The raw water from RO plants and domestic water that is let out in the college is channeled to the gardens and mango groove. The college has a policy of ban on plastic and restriction on entry of automobiles to maintain a clean, green, and healthy environment.

### **3. Makers' Zone**

The Makers Zone of Aditya College of Engineering & Technology was 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 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 the 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 are 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 also took the initiative to facilitate the society during a pandemic by providing homemade face shields with the support of a 3D printing startup owned by ACET students and members of the Makers' club, Sanitizers with the guidance of Aditya Pharmacy College, Surampalem, and Sixth finger a tool for surface touch-free. A total number of 2000 Face shields and 300 liters of sanitizers were handed over to the district collector of East Godavari district. It is further exercising to collaborate with industries to develop robots so as to support the workers and make their work easy and automobiles for the cheaper transportation system. The clubs achieved prizes and laurels from various universities including IITs and other organizations.

#### 4. Digital Suite – Academics and Administration

The field of Teaching, Learning, and Management has embarked digitalized Platform for academics and administration from a decade, Empowering Students to gain knowledge and skills, Monitoring performance in academics, Earning employment, and Ease of touch-free fee payment services. Taking the leading edge to bridge the gap in the teaching and learning process on the lines of development and modes of learning our institution is committed to excellence encouraging quality teaching-learning, research, training, and assessment through Digital Suite that has LMS, Digital Content videos, Moodle, Microsoft Office 365, E-Cap, Grievances portal, and Online payment policy. Learning Management System (LMS) facilitates the students to gain knowledge in multiple disciplines and leverage technical skills to innovate and invent new technologies. Digital videos facilitate the students to experience the personalized classroom learning that imbibes knowledge, hands-on experience and drives them to be capable, creative, competent, and employable. Microsoft Office 365 is an assistance to students and faculty to send and receive academic information, attend online classes, make their presentations, and attend training programmes in the digital room and job interviews. The digital platform also provides access to faculty and students to know about the various curricular and co-curricular and extra-curricular activities, information of their performance or assessment, and particulars about the payments through the Engineering College Automation package (E-Cap) and online payment policy. Much considered about the security and welfare of students the college thus provided a facility online where students can post their grievance that is directly accessed by the hierarchy and take necessary action. Further, the institutions always drive on par with technology to support the student and teacher fraternity and create a studious and safe environment.

File Description	Document
Link for appropriate web in the Institutional website	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>

## 5. CONCLUSION

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### Additional Information :

A part from all that is required to become an optimally acclaimed professional institute, we have certain thing place, which make in a cut above the rest of our competitors.

- **Exclusively designed placement training aimed at higher packages**

The unfortunate COVID Pandemic, in spite of the negative rampage has indeed created a lot of job opportunities & openings. We as a professional unit, grabbed these opportunities by connecting with the students virtually to train them specifically targeting placements with higher package.

- **Research incentives to faculty**

Inorder to inculcate research culture in the institute, the faculty are encouraged with research incentives for publishing research articles, books, patents etc.

- **Adoption of nearby backward village**

As a part of social responsibility, the institute has adopted a village by the name PEDABRAHMADEVAM. A team of faculty and students frequently conduct activities related to women and child hygiene, nutrition, blood grouping, cleaning of school premises etc.

### Concluding Remarks :

We were accredited with B grade in cycle 1 of the NAAC accreditation, working on getting NBA accreditation for 5 departments. Based on the feedback recieved from the peer team, we have made changes to our entire planning and thereby made improvement in leaps and bounds. Our research contributions have improved considerably. We have done all that we can to adopt NEP and particularly progressed a lot towards implementing OBE. We still have a lot of scope for improvement and it is a continuous process.

## 6.ANNEXURE

### 1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.2.2	<p><b>Number of Add on /Certificate programs offered during the last five years</b></p> <p><b>1.2.2.1. How many Add on /Certificate programs are offered within the last 5 years.</b></p> <p>Answer before DVV Verification:</p> <table><tr><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td></tr><tr><td>12</td><td>39</td><td>15</td><td>18</td><td>14</td></tr></table> <p>Answer After DVV Verification :</p> <table><tr><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td></tr><tr><td>11</td><td>33</td><td>12</td><td>11</td><td>14</td></tr></table>	2020-21	2019-20	2018-19	2017-18	2016-17	12	39	15	18	14	2020-21	2019-20	2018-19	2017-18	2016-17	11	33	12	11	14
2020-21	2019-20	2018-19	2017-18	2016-17																	
12	39	15	18	14																	
2020-21	2019-20	2018-19	2017-18	2016-17																	
11	33	12	11	14																	
1.2.3	<p><b>Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years</b></p> <p><b>1.2.3.1. Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years</b></p> <p>Answer before DVV Verification:</p> <table><tr><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td></tr><tr><td>1412</td><td>2297</td><td>1493</td><td>1552</td><td>1035</td></tr></table> <p>Answer After DVV Verification :</p> <table><tr><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td></tr><tr><td>1291</td><td>1964</td><td>1263</td><td>742</td><td>1035</td></tr></table>	2020-21	2019-20	2018-19	2017-18	2016-17	1412	2297	1493	1552	1035	2020-21	2019-20	2018-19	2017-18	2016-17	1291	1964	1263	742	1035
2020-21	2019-20	2018-19	2017-18	2016-17																	
1412	2297	1493	1552	1035																	
2020-21	2019-20	2018-19	2017-18	2016-17																	
1291	1964	1263	742	1035																	
2.3.3	<p><b>Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year )</b></p> <p>2.3.3.1. Number of mentors</p> <p>Answer before DVV Verification : 180</p> <p>Answer after DVV Verification: 183</p>																				
2.4.3	<p><b>Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)</b></p> <p>2.4.3.1. Total experience of full-time teachers</p> <p>Answer before DVV Verification : 1153</p> <p>Answer after DVV Verification: 1153</p>																				

3.1.3

Percentage of departments having Research projects funded by government and non government agencies during the last five years

3.1.3.1. Number of departments having Research projects funded by government and non-government agencies during the last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
1	2	1	0	0

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
3	2	2	0	0

3.1.3.2. Number of departments offering academic programmes

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17

3.2.2

Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years

3.2.2.1. Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year-wise during last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
23	8	5	4	3

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
23	8	4	4	3

3.4.2

Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years

3.4.2.1. Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
3	3	1	0	0

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
3	3	1	0	0

3.4.3 **Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years**

3.4.3.1. **Number of extension and outreached Programmes conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
20	10	7	7	7

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
17	9	6	6	6

3.4.4 **Average percentage of students participating in extension activities at 3.4.3. above during last five years**

3.4.4.1. **Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
3912	1774	2284	1286	1743

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
3161	1650	2046	1102	1500

3.5.2 **Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years**

3.5.2.1. **Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17

9	5	2	1	2
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Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
9	3	0	1	1

4.1.4 **Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)**

4.1.4.1. **Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
78.14	147.1	177.46	62.41	74.95

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
70.336	125.067	174.876	59.047	37.44

Remark : Input edited excluding library books expenditure.

4.2.4 **Percentage per day usage of library by teachers and students ( foot falls and login data for online access) during the latest completed academic year**

4.2.4.1. Number of teachers and students using library per day over last one year

Answer before DVV Verification : 561

Answer after DVV Verification: 563

Remark : input edited referring ledger footfalls uploaded by HEI

4.4.1 **Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)**

4.4.1.1. **Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year-wise during the last five years (INR in lakhs)**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
96.23	86.46	200.93	228.39	180.97

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
96.23	185.85	200.93	228.39	180.97

**5.3.1 Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.**

**5.3.1.1. Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as one) year-wise during the last five years.**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
10	11	5	11	8

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
10	11	5	11	7

Remark : Input edited as participation certificates can not be considered

**5.3.3 Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)**

**5.3.3.1. Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
28	23	20	40	53

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
5	10	18	19	16

Remark : Input edited refering data uploaded by HEI

**7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures**

1. Solar energy
2. Biogas plant
3. Wheeling to the Grid

	<p>4. <b>Sensor-based energy conservation</b></p> <p>5. <b>Use of LED bulbs/ power efficient equipment</b></p> <p>Answer before DVV Verification : A. 4 or All of the above</p> <p>Answer After DVV Verification: A. 4 or All of the above</p>
7.1.4	<p><b>Water conservation facilities available in the Institution:</b></p> <ol style="list-style-type: none"> <li>1. <b>Rain water harvesting</b></li> <li>2. <b>Borewell /Open well recharge</b></li> <li>3. <b>Construction of tanks and bunds</b></li> <li>4. <b>Waste water recycling</b></li> <li>5. <b>Maintenance of water bodies and distribution system in the campus</b></li> </ol> <p>Answer before DVV Verification : A. Any 4 or all of the above</p> <p>Answer After DVV Verification: A. Any 4 or all of the above</p>
7.1.5	<p><b>Green campus initiatives include:</b></p> <ol style="list-style-type: none"> <li>1. <b>Restricted entry of automobiles</b></li> <li>2. <b>Use of Bicycles/ Battery powered vehicles</b></li> <li>3. <b>Pedestrian Friendly pathways</b></li> <li>4. <b>Ban on use of Plastic</b></li> <li>5. <b>landscaping with trees and plants</b></li> </ol> <p>Answer before DVV Verification : A. Any 4 or All of the above</p> <p>Answer After DVV Verification: A. Any 4 or All of the above</p>
7.1.7	<p><b>The Institution has disabled-friendly, barrier free environment</b></p> <ol style="list-style-type: none"> <li>1. <b>Built environment with ramps/lifts for easy access to classrooms.</b></li> <li>2. <b>Divyangjan friendly washrooms</b></li> <li>3. <b>Signage including tactile path, lights, display boards and signposts</b></li> <li>4. <b>Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment</b></li> <li>5. <b>Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading</b></li> </ol> <p>Answer before DVV Verification : A. Any 4 or all of the above</p> <p>Answer After DVV Verification: A. Any 4 or all of the above</p>

## 2.Extended Profile Deviations

ID	Extended Questions				
1.1	<b>Number of courses offered by the Institution across all programs during the last five years</b>				
	Answer before DVV Verification:				
	2020-21	2019-20	2018-19	2017-18	2016-17
	328	328	328	328	328
	Answer After DVV Verification:				



2020-21	2019-20	2018-19	2017-18	2016-17
580	599	585	569	547

**2.3 Number of outgoing / final year students year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
991	818	985	799	798

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
991	818	989	795	798

**3.1 Number of full time teachers year-wise during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
183	185	188	185	178

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
151	185	188	185	178

**4.2 Total Expenditure excluding salary year-wise during last five years ( INR in Lakhs)**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
544.89	853.99	703.56	765.02	673.68

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
488.28	473.80	673.07	728.02	607.33