



## Yearly Status Report - 2018-2019

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>		ADITYA ENGINEERING COLLEGE
Name of the head of the Institution		Dr. M.Sreenivasa Reddy
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		08842326202
Mobile no.		9949876662
Registered Email		principal@aec.edu.in
Alternate Email		office@aec.edu.in
Address		Aditya Nagar, ADB Road, Surampalem, Gandepally Mandal,
City/Town		East Godavari District
State/UT		Andhra Pradesh
Pincode		533437

<b>2. Institutional Status</b>																			
Autonomous Status (Provide date of Conformant of Autonomous Status)	08-Mar-2017																		
Type of Institution	Co-education																		
Location	Rural																		
Financial Status	Self financed																		
Name of the IQAC co-ordinator/Director	Dr. K V S Ramachandra Murthy																		
Phone no/Alternate Phone no.	08852252243																		
Mobile no.	9966803153																		
Registered Email	murthy.kvs@aec.edu.in																		
Alternate Email	murthykvs2000@yahoo.co.in																		
<b>3. Website Address</b>																			
Web-link of the AQAR: (Previous Academic Year)	<a href="https://aec.edu.in/?p=AQAR">https://aec.edu.in/?p=AQAR</a>																		
<b>4. Whether Academic Calendar prepared during the year</b>	Yes																		
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="https://www.aec.edu.in/uploads/aqar/Calendar_18-19.pdf">https://www.aec.edu.in/uploads/aqar/Calendar_18-19.pdf</a>																		
<b>5. Accrediation Details</b>																			
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A</td> <td>3.11</td> <td>2015</td> <td>01-May-2015</td> <td>31-Dec-2022</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	A	3.11	2015	01-May-2015	31-Dec-2022
Cycle	Grade	CGPA	Year of Accrediation	Validity															
				Period From	Period To														
1	A	3.11	2015	01-May-2015	31-Dec-2022														
<b>6. Date of Establishment of IQAC</b>	15-Nov-2011																		
<b>7. Internal Quality Assurance System</b>																			
Quality initiatives by IQAC during the year for promoting quality culture																			
Item /Title of the quality initiative by IQAC	Date & Duration		Number of participants/ beneficiaries																
25th Governing Body	13-Apr-2019		13																

Meeting	1	
IV Academic Council Meeting	05-Jan-2019 1	28
Workshop on IPR and Patents	18-Jul-2018 1	210
No Files Uploaded !!!		

**8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
DR. V. SURYANARAYANA	NSTMIS	DST	2019 2	17
<a href="#">View File</a>				

<b>9. Whether composition of IQAC as per latest NAAC guidelines:</b>	Yes
Upload latest notification of formation of IQAC	<a href="#">View File</a>
<b>10. Number of IQAC meetings held during the year :</b>	5
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	<a href="#">View File</a>
<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	No

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

1. Based on the recommendation of IQAC, Management has funded Students to attended National Event Baja2019 2. Five Patents have been published by Faculty and total 23 Faculty were involved as inventors 3. Two faculty Published Books in International Publishers. 4. Incentives given to faculty for Paper publication, have been revised. 5. New courses have been offered by Training department in Big Data, Cloud Computing and Robotics, and IOT

[View File](#)

**13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year**

Plan of Action	Achivements/Outcomes
Encourage students to develop robotic applications through Robotics club.	240 students participated and improved their skills.
Online assessment through Cocubes	Placements in Software and core companies with higher packages were provided to 75 students through Co-cubes.
Participation of students in various online coding competitions.	158 students participated in coding competitions.
Project exhibitions, Projects on cutting edge technologies by students	240 students have got exposure to latest technologies in the campus.
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<b>14. Whether AQAR was placed before statutory body ?</b>	Yes
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Name of Statutory Body	Meeting Date
Academic Council	05-Jan-2019

<b>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?</b>	Yes
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Date of Visit	01-May-2015
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<b>16. Whether institutional data submitted to AISHE:</b>	Yes
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Year of Submission	2019
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Date of Submission	01-Mar-2019
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<b>17. Does the Institution have Management Information System ?</b>	Yes
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If yes, give a brief description and a list of modules currently operational (maximum 500 words)	The College is using ECAP for maintaining student attendance, results, fee payment details, faculty data and salaries information. Online attendance system • Biometric for faculty attendance. • Information about students to their parents through SMS to parents is sent through MIS • Online Faculty Feedback System using MIS
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**Part B**

**CRITERION I – CURRICULAR ASPECTS**

## 1.1 – Curriculum Design and Development

### 1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
No Data Entered/Not Applicable !!!			
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### 1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
No Data Entered/Not Applicable !!!				
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## 1.2 – Academic Flexibility

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

Programme/Course	Programme Specialization	Dates of Introduction
No Data Entered/Not Applicable !!!		
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### 1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	ALL	29/05/2017
Mtech	ALL	29/05/2017
MBA	ALL	29/05/2017
MCA	NA	29/05/2017
Integrated(PG)	IMBA	29/05/2017

## 1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
No Data Entered/Not Applicable !!!		
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### 1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
No Data Entered/Not Applicable !!!		
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## 1.4 – Feedback System

### 1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes

Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution?  
(maximum 500 words)

#### Feedback Obtained

The Educational System seeks to fulfil the requirements of the learners by meeting their demands. Faculty Peer Groups and the students are continuously involved in safe guarding the interests of the educational processes and maintenance of standards. The functioning of feedback mechanisms infuses confidence among both faculty and students, increased active participation, mutual trust and has given a fillip to educational commitment and optimism. Feedback system is used to facilitate quality sustenance and improvement measures in the instruction and curriculum design processes. The students can share their feedback online (both on instruction and courses) for all courses that they have registered during a semester. The feedback is reviewed and communicated to the faculty members. This helps faculty members to improve their teaching practices and make necessary changes in course content. Feedback in the form of questionnaire for all Lecture, Tutorial and Practical classes are made before comprehensive examination. The analysis is shared before the commencement of the ensuing semester with all the faculty members through Head of Department (HOD). This method helps the faculty members to take measures in teaching and curriculum design. Direct feedback from student volunteers is taken and maintained by ID. The student volunteers are required to discuss with their friends (i.e. juniors, peers and seniors) in collating the feedback. These are then shared with the departments to take necessary action for enhancing the quality of the curriculum. Both manually and online feedback is collected from all the stakeholders. The online feedback mechanism is used to take feedback from students, parents and teachers. The feedback from students is analyzed course-wise, year-wise, department-wise. The average feedback of the college is calculated and compared with department-wise and individual. The faculty members are appreciated if they got good feedback, and orientation is given for the faculty members who got less feedback.

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

#### 2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
<b>No Data Entered/Not Applicable !!!</b>				
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### 2.2 – Catering to Student Diversity

#### 2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	4480	353	210	27	48

### 2.3 – Teaching - Learning Process

#### 2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-

learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
285	285	9	88	3	5

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

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

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

All the teachers act as proctors. Each proctor is assigned with 20 students. Student information like personal/ academics/ extra curricular activities/ backlogs information is maintained. Counselling for weak students is effectively done. Students are encouraged to participate in various competitions and technical trainings. Student absenteeism and report of backlogs/ appreciations will be informed to their parents on monthly basis. Remedial classes are conducted students who have backlogs. Makeup classes are conducted for weaker students. College takes all care to make the students industry ready by providing training in soft skills, programming skills and skill development programs.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
4833	285	1:17

## 2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
285	285	Nil	33	19

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
<b>No Data Entered/Not Applicable !!!</b>			
<a href="#">View File</a>			

## 2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
<b>No Data Entered/Not Applicable !!!</b>				
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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
620	4898	12.65

## 2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<https://aec.edu.in/?p=Outcomebased%20Education>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
<b>No Data Entered/Not Applicable !!!</b>					
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## 2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<https://www.aec.edu.in/?p=IQAC>

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

<b>Yes</b>
Name of the teacher getting seed money
<b>Nil</b>
<a href="#">View File</a>

3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
<b>National</b>	<b>Abhishek Kumar Tripathi</b>	<b>Excellent Researcher Award</b>	<b>17/05/2019</b>	<b>IARE 2019 Organized by GISR Foundation, New Delhi.</b>
<b>No file uploaded.</b>				

### 3.2 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
<b>Any Other (Specify)</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>



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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

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### 3.3 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Awareness on IPR and Patents	Research and Development	20/04/2019
One Day Workshop on Research Methodology	CE	12/07/2018
One Day Workshop on IPR	EEE	09/08/2018
One Day Workshop on Research Methodology	MECH	22/08/2018
One Day Workshop on Research Paper Writing	ECE	19/12/2018
One Day Workshop on Research Methodology	CSE	03/01/2019
One Day Workshop on IPR	IT	21/01/2019
One Day Workshop on Intellectual Properties and Rights	MIN	21/03/2019
One Day Workshop on Research Methodology	EEE	06/05/2019
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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Student Toppers	Pratibha	JNTUK	12/02/2019	Student Merit
ISTE Best Student Chapter	Best Student Chapter	ISTE	06/03/2019	Student Chapter
NPTEL Rank	All India 39 Rank	MHRD	15/02/2019	FDP
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
TBI	Aditya Global Business Incubator	Aditya Engineering College	Nightout	eLearning	12/10/2018
TBI	Aditya Global Business	Aditya Engineering College	Itzmychoice	Online Domestic Services	19/10/2018

	Incubator				
TBI	Aditya Global Business Incubator	Aditya Engineering College	Peacekart	Online shopping, advertisement,	26/04/2019
TBI	Aditya Global Business Incubator	Aditya Engineering College	Getmybooks	Books Reselling online	20/01/2018
TBI	Aditya Global Business Incubator	Aditya Engineering College	VYSPRATECH	Augmented Reality	31/03/2018
TBI	Aditya Global Business Incubator	Aditya Engineering College Aditya Engineering College	Exploreit	skilled designers, programming experts and marketing	15/02/2019
TBI	Aditya Global Business Incubator	Aditya Engineering College	Anirs Club	Online Marketing of Clothes and Designers	18/03/2019
TBI	Aditya Global Business Incubator	Aditya Engineering College	Agumentik	Web Designing	25/01/2019
TBI	Aditya Global Business Incubator	Aditya Engineering College	TRIGID INNOVATIONS	3D Printing	19/04/2019
TBI	Aditya Global Business Incubator	Aditya Engineering College	QQ Adz	Consultancy Services for Marketing	17/08/2018
TBI	Aditya Global Business Incubator	Aditya Engineering College	Karanam Technologies	Organic Farming	16/11/2018
TBI	Aditya Global Business Incubator	Aditya Engineering College	Toptrayy	Online Shopping	12/10/2018
TBI	Aditya Global Business Incubator	Aditya Engineering College	Getmytailor	Online Taylor Service Booking	06/07/2018
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### 3.4 – Research Publications and Awards

#### 3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
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No Data Entered/Not Applicable !!!

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	ECE Department	6	0.8
International	Mechanical Engineering	7	0.67
International	Humanities and Basic Sciences	9	1.1
International	Computer Science and Engineering	5	0.9
International	Civil	1	0.78
International	IT	5	Null
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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
EEE	4
Computer Science and Engineering	1
Petroleum Engineering	1
Mechanical Engineering	1
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Sugarcane Harvesting Machine	Filed	2018410280	26/07/2018
Development of Clutch based Mechanical oriented Side stand Retrieval system mechanism for 2 wheelers and Method thereof	Filed	2018410387	02/11/2018
An Accelerator Restriction System	Filed	2018410396	26/10/2018
A Clutch Restriction System	Filed	2019410003	18/01/2019
Systems and Methods for Consumption of Electricity	Filed	2019410052	15/02/2019
All Terrain Vehicle (Design )	Filed	315265001	01/03/2019
Electric Off Road Vehicle (Design )	Filed	315317001	03/03/2019

Off Road Vehicle (Design )	Filed	317210001	26/04/2019
Quad Bike (Design )	Filed	317234001	26/04/2019
GoKart (Design )	Filed	317243001	26/04/2019
GoKart (Design)	Filed	317252001	27/04/2019
IMC Charger	Filed	2019210165	25/04/2019
Double Glazing VTrough Thermosypon Solar Water Heater with Horizontal Wing Cut Twisted Tape.	Filed	2019410025	01/02/2019

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

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Women in technology	MSC Sophia	International journal of emerging technologies in research	2019	2	Aditya Engineering College	1
Feminist voice in 'Ms Militancy' by meena kandasamy	MSC Sophia 26. MSC Sophia	IJR	2019	1	Aditya Engineering College	1
Effect Of Arabica And Canephora Coffee Bean Extracts Towards Modification Of Red Blood Cell Surface Antigens	Suryanarayana Veeravalli	Pharm. Sci. Res	2019	1	Aditya Engineering College	1
Touchdown PCR combined with semi degenerate	Suryanarayana Veeravalli	Pharm. Sci. Res.	2019	1	Aditya Engineering College	1

primers for rapid amplification of HOXD9 loci in humans						
Development of The rapeutic food for Adolescent Girls	B.J.V. Sai vinay	International Journal of Current Microbiology and Applied Sciences	2019	1	Aditya Engineering College	1
Field Evaluation of dynamic PCU and heterogeneous traffic conditions	R.Srinivasa Rao	International Journal for Research in Applied Science Engineering Technology	2019	2	Aditya Engineering College	1
Image Fusion Using Eigen Features And Satatony Wavelet Transform	S.B.G.Tilak Babu, K.H.K.Prasad, G.Jyothirmmai, N.V.Satyanarayana, Devi Bhavani Kadali, V.Satyanarayana, K.Pavani	International Journal of Innovative Technology and Exploring Engineering	2019	1	Aditya Engineering College	1
IMAGE SUPER RESOLUTION BY INTERPOLATION AND EDGE MODIFICATION	S.B.G.Tilak Babu, V.Satyanarayana, N.Srinivasa Gupta, G.Jyothirmmai, N.V.Satyanarayana, K.Pavani	Advanced Research in Dynamical Control Systems	2018	1	Aditya Engineering College	1
Performance evaluation of quarter shift dual tree complex wavelet transform based	Nainavarapu Radha, Tummala Ranga Babu	IJECE	2019	1	Aditya Engineering College	1

multifocus image fusion using fusion rules						
Multifocus Color Image Fusion Based on Walsh Hadamard Transform and Sum Modified Laplacian Focus	nainavarapu Radha,	IJIES	2019	1	Aditya Engineering College	1
Image Inpainting based on Fractional order nonlinear diffusion for image reconstruction	Ms. G. Sridevi and Mr. S.Srinivas Kumar,	circuits, systems and signal processing	2019	1	Aditya Engineering College	1
Optimization of Process Parameters in Welding	A. Sirisha Bhadrakali,	International Journal for Innovative Engineering and Management Research	2019	1	Aditya Engineering College	1
Heat transfer augmentation techniques in forced flow Vthrough solar collector equipped with VCut and square twisted tape	A.Saravanan	International Journal of Thermal Sciences	2019	1	Aditya Engineering College	1
Nonlinear Transient	Chetan Kumar Hirwani	Engineering With Computers	2019	1	Aditya Engineering College	1

Analysis of Delaminated Curved Composite Structure under blast/pulse Load						
Nonlinear Thermal Free Vibration Frequency Analysis of Delaminated Shell Panel Using FEM	Chetan Kumar Hirwani	the Composite Structures	2019	1	Aditya Engineering College	1
Performance Enhancement of Centrally Finned Twist Inserted Solar Collector Using Corrugated Booster Reflectors	A. Saravanan, M.Murugan, R.Vijayan, S.Jaisankar	The Energy	2019	1	Aditya Engineering College	1
Review of Gas Turbine Blades	Hussain,	in International Journal of Management Technology and Engineering	2018	1	Aditya Engineering College	1
PSO Algorithm Support Switching Pulse Sequence ISVM for SixPhase Matrix Converter Fed Drives	Ch Amarendra, K Harinadha Reddy	Smart Intelligent Computing and Applications	2019	1	Aditya Engineering College	1
Experimental study on high performance	A.S.V. Nagaraju	IJTIMES	2019	1	Aditya Engineering College	1

concrete as partial replacement of nanosilica in cement						
Assessment godavari river water quality in and around Rajamahendravaram	P. Lakshmi,	IJITEE	2019	1	Aditya Engineering College	1
Vertical irregularity of a structure against seismic load with different grades of concrete	K. Mounika,	IJMTE	2019	1	Aditya Engineering College	1
Asymptotic Stability of Solution of Lyapunov Type Matrix Volterra I ntegroDynamic System on Time Scales	G. Venkata Ramana, G. V.S.R.Deekshitulu	International Journal of Engineering Technology	2018	1	Aditya Engineering College	1
Controllability, Observability and Stability of Volterra Type NonLinear MATRIX IntegroDynamic System on Time Scales	G. Venkata Ramana, G. V.S.R.Deekshitulu	The International Journal of Engineering Technology	2018	1	Aditya Engineering College	1
Characterization, Optical	T. Narendrudu, Ch. Tiripataia	Optical Materials	2018	1	Aditya Engineering College	1



and Luminescence features of Cobalt ions in multicomponent PbAl <sub>2</sub> O <sub>3</sub> TeO <sub>2</sub> GeO <sub>2</sub> SiO <sub>2</sub> glass ceramics	h, A.Suneel Kumar, G.Chinna Ram, M.V Sambasiva Rao					
An Approach to Support for Data Aggregation to Reduce the Hot Spot Problem	A. Vanathi	An Approach to Support for Data Aggregation to Reduce the Hot Spot Problem	2018	1	Aditya Engineering College	1
Image Super Resolution by Interpolation and Edge Modification	S.B.G. Tilak Babu,	Journal of Adv Research in Dynamical Control Systems	2018	1	Aditya Engineering College	1
Image Inpainting Based on Fractional-Order Nonlinear Diffusion for Image Reconstruction	G. Sridevi	Circuits, Systems, and Signal Processing	2019	1	Aditya Engineering College	1
Multifocus Color Image Fusion Based on Walsh Hadamard Transform and SumModified-Laplacian Focus Measure	N. Radha	International Journal of Intelligent Engineering Systems	2019	1	Aditya Engineering College Aditya Engineering College Aditya Engineering College	1
Performance Enhancement of Centrally Finned Twist	A. Saravanan, M.Murugan, R.Vijayan, S.Jaisankar	Published in The Energy	2019	3	Aditya Engineering College	1

Inserted Solar Collector Using Corrugated Booster Reflectors						
Influence of Corrugated Booster Reflectors in a Centrally Finned Twist Inserted Solar Thermal Collector on Heat Transfer and Thermal Performance Characteristics	A.Saravanan,	Journal of Heat Transfer	2019	2	Aditya Engineering College	1
Assessment of Godavari River Water Quality in and Around Rajahmadravaram	P. Lakshmi,	International Journal of Innovative Technology and Exploring Engineering	2019	1	Aditya Engineering College	1
A Novel Way of Encrypting Text and Images using Elliptic Curve Cryptography	Ch. Udaya Bhaskar	International Journal of Innovative Technology and Exploring	2019	1	Aditya Engineering College	1
Nonlinear Thermal Free Vibration Frequency Analysis of Delaminated Shell	Chetan Kumar Hirwani	Composite Structures	2019	1	Aditya Engineering College	1

Panel Using FEM						
Nonlinear Transient Analysis of Delaminated Curved Composite Structure under blast/pulse Load	Chetan Kumar Hirwani	Engineering With Computers	2019	1	Aditya Engineering College	1
Touchdown PCR Combined With Semi Degenerate Primers for Rapid Amplification of HOXD9 Loci in Humans	V. Surya narayana	Journal of Pharmaceutical Science Research	2019	2	Aditya Engineering College Aditya Engineering College	2
Heat transfer augmentation techniques in forced flow Vthrough solar collector equipped with VCut and square twisted tape	A. Saravanan	International Journal of Thermal Sciences	2019	0	Aditya Engineering College	2
Performance Evaluation of Quartet Shift Dual Tree Complex Wavelet Transform Based MULTIFOCUS Image Fusion Using Fusion	N. Radha	International Journal of Electronics and Communication Engineering	2019	1	Aditya Engineering College	Nil

Rules						
Effect of Process Parameters and Mechanical Behaviour of FDM Processed PLA Parts	K.L.Kishore,	Journal of International Journal of Management Technology and Engineering,	2018	1	Aditya Engineering College	1
<a href="#">View File</a>						

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

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Heat transfer augmentation techniques in forced flow V-trough solar collector equipped with V-cut and square cut twisted tape	A.Saravanan	Elsevier Journal	2019	4	4	Aditya Engineering College
Improving performance of a trapezoidal-trough the rmosyphon solar collector using peripherally wing-cut swirl generator	A.Saravanan	International Journal of Green Energy	2019	4	Null	Aditya Engineering College
Aditya Engineering College	SBG TILAK BABU	Communication and Electronic Systems (ICCES), 2017 2nd International Conference	2018	1	Null	Aditya Engineering College

		on				
International Journal of Emerging Technology and Advanced Engineering	N Radha	ijies	2019	2	2	Aditya Engineering College
Image impaiting based on fractional-order nonlinear diffusion for image reconstruction	G.Sridevi	Circuits, System, and Signal Processing	2019	2	2	Aditya Engineering College
Image Super Resolution by Interpolation and Edge Modification	S.B.G.Tilak Babu, K.H.K. Prasad, Jyothirmai Gandeti, Devi Bhavani Kadali, V. Satyanarayana, K. Pavani	JARDCS	2018	2	Nil	Aditya Engineering College
Integrated features and GMM Based Hand Detector Applied to Character Recognition System under Practical Conditions	Songhita Misra	Multimedia Tools and Applications	2019	4	Nil	Aditya Engineering College
An Efficient Method for Segmentati on of Noisy and Non-circular Iris Images Using Optimal	M.Raja Sekhar	Journal of Advanced Research Dynamical Control System	2019	1	Nil	Aditya Engineering College

Multilevel Thresholding						
A Matlab Implementation of Standard Deviation Pooling based Gradient Magnitude Similarity Deviation (GMSD) FR-IQA Model	Samudrala Jagadish	International Journal of Emerging Technology and Advanced Engineering	2018	1	2	Aditya Engineering College
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### 3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Presented papers	10	Nil	Nil	Nil
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### 3.5 – Consultancy

#### 3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultant(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Civil Engineering Department	Testing of materials (Building Materials)	Cubatic Construction, Rajamahendravaram	20000
Civil Engineering Department	Testing of materials (Building Materials)	Mohan krishna bell rice Pvtltd, biccavolu.	20000
Civil Engineering Department	Testing of Parking Tiles	Sagar tiles Industry Rajamahendravaram	22500
CSE	Online Examination	TCS ION	820827
<a href="#">View File</a>			

#### 3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultant(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
CIVIL DEPARTMENT, ADITYA ENGINEERING COLLEGE	TRAINING ON AUTODESK REVIT	KABUL POLYTECHNIC UNIVERSITY	1000000	7
Mechanical Engineering	CATIA training	Kabul Polytechnic	1000000	3

Department		University, Afghanistan	
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### 3.6 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
BLOOD DONATION CAMP	GGH Rajahmundry	24	372
BLOOD DONATION CAMP	GGH KAKINADA	43	531
<a href="#">View File</a>			

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

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Blood Donation	Highest Number of Units collected in Blood Donation from Governor	State Government of Andhra Pradesh	700
No file uploaded.			

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

Name of the scheme	Organising unit/Agen cy/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
NSS	NSS	One Student One Tree	35	285
NSS	NSS	Aids Awareness Program	2	35
NSS	NSS	Swatchh Bharat	2	50
<a href="#">View File</a>				

### 3.7 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Training on Mechatronics	SDVVS Bhimesh Reddy	From Institution - Aditya Engineering College (A) Trained at Aachen, Germany	14
Research	Agri. And ECE Department Students	Aditya Engineering College	60
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3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Internship	Internship	APGPCL	10/05/2019	25/05/2019	Students
Internship	Internship	VIZAG STEEL PLANT	15/05/2019	30/05/2019	Students
Internship	Internship	MANIHAMSA POWER PLANT	20/05/2019	06/06/2019	Students
Internship	Internship	BHEL	18/05/2019	30/05/2019	Students
Internship	Internship	APTRNSCO	13/11/2019	27/11/2019	Students
Internship	Internship	APGENCO	17/05/2019	30/05/2019	Students
Job Training	Semiconductor Test Engineering	Tessolve s emiconductor Private Ltd. Electronic City, Bangalore.	28/08/2019	02/12/2019	IV B.Tech Students
Profeciency Improvement Programme	IC Engines	Automotive Research Association of India	08/12/2019	12/12/2019	Students, Faculty members and Industry pro fessionals.
ACADEMIC DEVELOPMENT	ITAP	RELAINCE, MUMBAI	03/11/2019	27/12/2019	Students, Faculty members and Industry pro fessionals.

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
APSSDC	30/04/2018	STUDENT TRAINING IN ADVANCE TECHNOLOGIES	440
No file uploaded.			

**CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES**

**4.1 – Physical Facilities**

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
305	305



#### 4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with Wi-Fi OR LAN	Existing
Seminar Halls	Newly Added
Campus Area	Existing
Class rooms	Newly Added
Laboratories	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
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#### 4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
ECAP	Partially	4.0	2005

##### 4.2.2 – Library Services

Library Service Type	Existing	Newly Added	Total
<b>No Data Entered/Not Applicable !!!</b>			
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##### 4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Dr. P. S. Ranjit	Online Part time faculty for design thinking course at New School of Architecture and Design. Sandiago U.S.A. for Spring 2018	Black Board	04/06/2018
No file uploaded.			

#### 4.3 – IT Infrastructure

##### 4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
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Existing	1435	15	150	2	1	1	12	150	0
Added	150	2	200	0	0	0	0	200	0
Total	1585	17	350	2	1	1	12	350	0

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

350 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Centre of Excellence for eResource Development Deployment (CoEeRD)	<a href="http://jntuk-coeerd.in/">http://jntuk-coeerd.in/</a>

#### 4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
35	60	59	78

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

Regular conduction of class work, regular conduction of lab work, proper maintenance of labs conduction of remedial and makeup classes to enhance students results. Regular upgradation of computers, conduction of FDPs, workshops, seminars etc. to update students. encouraging students to register for swayam courses. signing MOUs with various organizations and companies. encouraging students to participate in HACKATHONS.

<http://www.aec.edu.in>

### CRITERION V – STUDENT SUPPORT AND PROGRESSION

#### 5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Merit Scholarships	350	7190000
Financial Support from Other Sources			
a) National	Fee Reimbursement Scheme -Government of Andhra Pradesh	3021	124914250
b) International	Nil	Nil	Nil

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

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
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**No Data Entered/Not Applicable !!!**

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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

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

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

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
5	5	7

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
54	736	460	4	736	58

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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
Nil	1	B.Tech	ME	UCE-JNTUA	M. TECH
2019	1	B.Tech	ME	Aditya engineering college	M. TECH
2019	1	B.Tech	ME	XISS Ranchi	MBA
2019	1	B.Tech	EEE	JNTUK KAKINADA	MBA
2019	4	B.Tech	EEE	Aditya engineering college	M.Tech
2019	1	B.Tech	CE	JNTUK, KAKINADA	M Tech, Soil Mechanics and Foundation Engineering

2019	1	B.Tech	CE	ACET, SURAMPALEM	M Tech, Structural Engineering
2019	1	B.Tech	CE	KITS, RAMA CHANDRAPURAM	M Tech, Structural Engineering
2019	1	B.Tech	CE	PYDAH COLLEGE OF E NGINEERING,K AKINADA	M Tech, Structural Engineering
2019	2	B.Tech	CE	AEC, SURAMPALEM	M Tech, Structural Engineering
<a href="#">View File</a>					

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

Items	Number of students selected/ qualifying
SET	3
GATE	10
CAT	1
No file uploaded.	

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

Activity	Level	Number of Participants
No Data Entered/Not Applicable !!!		
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### 5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
No Data Entered/Not Applicable !!!						
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Student Active Council The college constitutes "Students Council" for every academic year. At least two meetings of the students? council are organized every year. The student's council involves Chairman, faculty and student members. 1 Principal Chairman of the Student Council 2 A Lecturer nominated by the principal Member 3 NSS Programme Officer Member 4 The Director of sports and physical education Member 5 One Student from each class with academic merit at the examination held in the preceding year and engaged in full-time study in the college, nominated by the Principal Member 6 One student showing outstanding erformance in each activity of Sports, NSS, NCC and ultural Activities, nominated by the Principal Member 7 Two female students nominated by the Principal Member 8 Two students nominated by the Principal (SC/ ST/ NT/ DTNT/ OBC) Member The activities and functions of the students' Council •

Monitors various academic and socio-cultural events in the college. • Maintain overall discipline in the campus. • Act as a facilitator between the students and college. • Coordinate all extracurricular activities and annual festival of the college. • Raising funds whenever there is need to fulfill social responsibility. • Plays a significant role as volunteers in conferences, workshops, sports events and other functions. The representative students play an active role in the activities and the decisions taken by different committees of the college. There is the development of leadership qualities, confidence, sense of responsibility and active participation among the students. The increase in communication and healthy dialogue is witnessed after this initiation. Student's council is given the representation in the working committees of the college. The following are some of the committees which come under the preview of Student Active Council. List of the Student Committees 1 Academic Committee 2 Alumni Coordination Cell 3 Anti Ragging Committee 4 Canteen Committee 5 Career Counselling Cell 6 Cultural Committee 7 Eco Club 8 Entrepreneurship Development Cell / Incubation Center 9 Ethics Committee 10 Health Club 11 Hostel Committee (Hostel Students Only) 12 ICT / LMS / E Resources Committee 13 Language Club 14 Library Committee 15 NSS 16 Publication Committee 17 Sports Committee 18 Training Placement Cell 19 Transport Committee 20 Website Committee 21 Prevention of Sexual Harassment 22 Grievance Redressal Committee 23 Women Empowerment Website Link: <https://www.aec.edu.in/#>

## 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Aditya Alumni Association (AAA) is registered with 30 members initially. It is functional from then, highly proactive and greatly supportive for the wellness of the institute and the students. It has a governing body with President, Vicepresident, Secretary, Treasurer and General Secretary. It is, in fact, an undeniable fact that the success of any educational institution depends on the success of its alumni. The contributions and the involvement of the alumni can significantly increase the reputation of the Institution nationally and internationally. Aditya feels proud of its Alumni association which extends its direct and indirect help to the management and to the students through various means. We proudly call them our ambassadors. Top alumni are placed in prestigious companies like, CGI, TCS, INFOSYS, Tech-Mahindra, Caliber Technologies, Amazon Ltd etc., and most of them are imparting their services in prestigious positions. We proudly proclaim that they are tailor made according to the vision and mission of our institution. The alumni association contributes significantly through financial and non-financial means. They provide structured feedback about the syllabus, exam patterns and infrastructural facilities offered by the institution and the valid suggestions are implemented. An alumni meet is very prestigiously conducted annually, where in the passed out graduates from UG PG courses of all the departments can get together under the same roof spending some useful and fruitful time sharing their lessons and experiences from campus life to career life - their joys and sorrows, their trials and tests, their efforts and results and their success and failures in searching and reaching professional arenas and avenues. This meeting will purely be an interactive, explorative and very enlivening. Enthusiastic professionals, highly knowledgeable project leads and heads, successful entrepreneurs, upcoming industrialists, employees working with MNCs in India and abroad from the alumni are devotedly invited to talk on their success stories and victorious achievements and great accomplishments, thus, standing as an impetus to the budding engineers. Alumni help their juniors by creating awareness about the job opportunities accessible in the present world and creates awareness about the strategic methods to meet the necessities of diverse competitive exams like GRE, TOFEL, and other job oriented exams like

RRB, SSC, Public service commission's, special scholarships and free ships. Especially, alumni staying in abroad motivate other students to find their opportunities in other countries. The association assists economically poor students with financial aid and by giving meritorious awards through NGOs like Sadhya foundation, Helping hands etc. in which the Alumni Association is actively involved. The members of the alumni assist the final year students to get their projects, placements or summer internships in their companies. This is the more possible and probable way, the regular alumni meets pave the way for the sure and successful placement of the students.

5.4.2 – No. of registered Alumni:

375

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

January 10th, 2019

## **CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT**

### **6.1 – Institutional Vision and Leadership**

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

The decentralization enables and empowers the faculty members towards participative management in all activities with a balance between transparency and confidentiality. Each of the functionaries has specific roles and responsibilities confining to the policies of the institution. The decentralization processes and participative management are among the best practices which are implemented effectively as narrated below. The Principal provides leadership for the academic and non-academic administration and management and creates an effective environment conducive for learning. He ensures that quality education is imparted to the students that foster the holistic development of the students. He also ensures all-round development of the Institute and achievement of strategic plans of the institution. He ensures the smooth functioning of the institution with the support of Director, Deans, HODs and Conveners. There are several coordinators working hand in hand in planning, organizing, implementing and monitoring all the activities of the institution. The decentralized mechanism exists even at the department levels. The entire department has lot of freedom for department development activities. Department has constituted various coordinator and incharge for the smooth functioning of the academic, training and placement, research, extracurricular activities. Every department has Program coordinators at UG and PG level to look after the activities of each program. Decisions at department levels are taken by well-structured coordinators like Time table, Exam Cell, RD, Consultancy, Training, Placement, Counseling, Society membership, Student feedback, program assessment coordinator and department development coordinator. Program and Events Execution Process Every year management conducting various programs and events such as Karting Championship, Colors-Youth Fest, Veda-Tech Fest, Cricket Tournaments, Campfire to enhance the student's knowledge and talents in outside world. VEDA is a technical fest conducted at the aditya campus for extracting the hidden talents in the students and to for their carrier motivation. This is conducted in the month of September of every year. All the surrounding colleges are invited for the participation. Interesting aspects like ROBOTICS is conducted. There are many other aspects in which students get a good plat form for their exposure. The Committees and teaching faculty, non teaching staff and representative of the

students are responsible for supervising and managing the routine activities of these bodies. The institute has constituted various committees for conducting Tech Fest smoothly. Academic committee meeting is convened by the principal to decide the planning and implementation of Tech Fest. Each committee had responsible for framing rules and regulation, event execution plan, event schedule, brochure design and distribution, registration, guest arrangement, transport, hospitality and Catering, event execution, discipline, supervising and managing the routine activities, prize distribution, Report, Media and Photographs, Accounts and budget preparation. In order to execute event, principal, dean, all the committees, HODs, faculty members, non-teaching staff members, PT master, Guest members, student volunteer and student representative are actively involved. The central committees are submitted the event budget proposal to the principal through proper channel which is verified by the principal along with committee. After finalizing the event budget, it is forwarded to management for financial support.

6.1.2 – Does the institution have a Management Information System (MIS)?

Partial

## 6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	All the faculty are actively involved in developing curriculum and it is approved by BOS and the syllabi of all departments is approved by Academic Council. In both Academic Council and BOS, Professors of IITs, NITs and UGC are present and under their guidance, syllabus is made.
Teaching and Learning	Teacher is given freedom to design his own style of teaching methodology based on the CO and PO mapping. They conduct internal evaluation through Class Tests, Assignments, Seminars and Projects. Internal examinations are conducted at Departmental level.
Examination and Evaluation	AEC has established full fledged examination section with one controller of examination and sufficient space for confidential section and space for keeping the four years of examination papers.
Research and Development	RD cell is functional with several activities of Coordinating with all departments for submitting proposals for funding and also manages internal incentives, coordinates activities of Aditya Global Business Incubator, Funded Students projects and IPR activities and Patents.
Library, ICT and Physical Infrastructure / Instrumentation	Collaboration with Pearson and McGrahill for providing soft copies of text books students

Human Resource Management	The college as HR policy in place. AEC offers PF, medical insurance and accidental insurance are provided to all teaching and nonteaching staff.
Industry Interaction / Collaboration	Industry experts in BOS and Academic Council advise and AEC follows their suggestions. THub offers several courses to make the students industry ready. A good number of students are placed in the Campus.
Admission of Students	Admissions are done according to State Board of Higher Education Guidelines. ACategory through Councelling BCategory through entrance exam conducted by the college and based on the merit. PIO Quota filled by foreign students.

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

E-governace area	Details
Planning and Development	No software is used for planning and development.
Administration	General Administration is done through ECAP and EZ softwares.
Finance and Accounts	Tally ERP and ECAP are used by Accounts Department.
Student Admission and Support	ECAP software is used for admission process and further student support. Students attendance is also posted in ECAP.
Examination	BEES Software is used to track students performance in examinations from Ist Semester to VIII Semester.

### 6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
<b>No Data Entered/Not Applicable !!!</b>				
<a href="#">View File</a>				

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
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No Data Entered/Not Applicable !!!

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

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
No Data Entered/Not Applicable !!!				
<a href="#">View File</a>				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
33	33	18	18

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
EPF, Medical Insurance, Accidental Insurance	EPF, Medical Insurance, Accidental Insurance	Merit Scholarships, In house first aid facility

## 6.4 – Financial Management and Resource Mobilization

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

**INTERNAL AUDIT:** Internal audit is very crucial for smooth functioning of an organization which brings trust and transparency amongst the stake holders. Prior to internal audit awareness and orientation programme is conducted about the importance of internal audit where all the internal audit committee members such as Management personnel, Principal, Deans, HODs and Account department personnel participate. Apart from employee salaries, Infrastructure development, laboratory development, Research activity expenses, student activities and programmes are discussed in detail in the audit meetings. Every year before one month of start of academic year, budget forms are sent to all HODs. These budget forms include forecasting Laboratory expenses, expenditure on conferences, workshops and seminars, organizing FDPs. It also includes Incentives for publications as well as rewards for best researcher. Budget also covers Library expenses, I.T. Expenses, Stores and Power bills, Municipal taxes and University fees. Budget also covers expenses for cognitive and physical development activities related to students. Yearly budget is made taking into account suggestions of Members of Academic council. Once budget is allocated, it is periodically monitored by HODs, Account department and Principal. If any discrepancies found in the Audit process brought to the notice of the management. **EXTERNAL AUDIT:** The external audit unlike the internal audit process does not require members employed in the organisation rather the audit is done by external independent team headed by authorized agency. Being an unbiased party, external audit brings more transparency in the financial processes. They closely observe the allocated amounts and incurred expenditure against different heads. They not only check the authenticity of bills provided but also check the supporting documents. External audit is carried out once in a year. Annually External audit is also done by the State Govt. Bodies for deciding the yearly tuition fee to be paid by the Govt. for eligible students.

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
<b>No Data Entered/Not Applicable !!!</b>		
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6.4.3 – Total corpus fund generated

800000
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### 6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	JNTUK	Yes	Professors
Administrative	Yes	Chartered Accountant	Yes	Sr. Administrative Officer

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

Orientation Program for both parents and students at the beginning of the semester, Parent Teacher Meeting Conducted every semester, Students proctoring system.
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6.5.3 – Development programmes for support staff (at least three)

Fee concession for the children of employees, Organizing medical camps, Financial assistance from corpus fund in case of emergency.
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6.5.4 – Post Accreditation initiative(s) (mention at least three)

Trying to implement all the suggestions given by the peer team, Activitybased Teaching and Learning Methods, MOOCs certification course for both faculty and students is made mandate.
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6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	Yes
d) NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Research Incubation for Students of II and III B Tech	12/06/2018	12/06/2018	31/05/2019	149

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### CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the

year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
ADVANCED TECHNOLOGY FOR WOMEN	23/08/2018	23/08/2018	48	28
MOTIVATIONAL SPEECH	09/11/2018	09/11/2018	90	128
LIFE SKILLS	30/11/2018	30/11/2018	60	50
SEMINAR ON INTERNATIONAL WOMEN'S DAY	21/12/2018	21/12/2018	53	30
NATIONAL SPORTS DAY	24/01/2019	24/01/2019	20	40
EXPERT TALK ON CORPORATIVE SURVIVAL	14/02/2019	14/02/2019	67	20
SUICIDE IS NOT THE SOLUTION	26/03/2019	26/03/2019	33	59

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

Percentage of power requirement of the University met by the renewable energy sources
Installations of Solar Panels was done on the roof tops of every building. On the Hostel Buildings also, it is installed. 50 of the Energy requirement is met by Solar Power. 400 kW Solar Panels have been installed by Aditya Engineering College. Over KL Rao Bhavan 100 kW, Over Bill Gates Bhavan 150 kW and Boys Hostel 100 kW is installed. Saving of Rs. 3,66,311 is achieved by connecting Solar Power Plant over the roof top. Plantation of Trees in abundance. Swatch Bharat Campaign is made in the Campus and near by villages. Usage of LED bulbs as power efficient equipment.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Ramp/Rails	Yes	Nil
Rest Rooms	Yes	Nil
Special skill development for differently abled students	Yes	Nil
Scribes for examination	Yes	Nil
Physical facilities	Yes	Nil
Provision for lift	Yes	Nil
Braille Software/facilities	Nil	Nil

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to	Number of initiatives	Date	Duration	Name of initiative	Issues addressed	Number of participating
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	address locational advantages and disadvantages	taken to engage with and contribute to local community					students and staff
2018	1	1	12/11/2018	05	Coir Cluster Development	Problems of Artisans, Problems of Entrepreneurs, Marketing problems, Designed hard and soft interventions , applied for coir cluster to MSME with the support of NIMSME as technical agency	20
2019	1	1	18/02/2019	05	Coir Cluster Implementation	Problems of artisans, entrepreneurs, poor marketing problems, obsolete machinery , technology upgradation, training requirements, submission of DPR to Coir Board, MSME	20
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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Rio 24 War and Peace	10/04/2019	Indian AstroBiological

Research Centre CENTRE FOR UNITED NATIONS CONFERRED Aditya Engineering College (A) AS BEST COLLEGE IN INDIA. Dr. Veeravilli Suryanarayana, Professor, Department of HBS, was appointed as CAMPUS AMBASSADOR CITY COORDINATOR, IARC, CENTRE OF UNITED NATIONS, For Driving Successfully the Rio 24 Program. Aditya Engineering College was selected as the Best Institution in India for conducting Rio 24 successfully. Dr. Suryanarayana Veeravilli will receive the Rio25 Reward in Recognition Ceremony which will be held on 29th December 2019 in Nehru Centre, Mumbai.

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

Activity	Duration From	Duration To	Number of participants
Rio 24 War and Peace	19/04/2019	19/05/2019	565
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#### 7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Electric Vehicles used for commutation within the campus. 2. Installation of Solar Panels for alternate energy instead of depending on Power Distribution Company. 3. Good Number of trees are grown in the Campus. 4. Water Sprinklers are used for irrigation for reducing the water usage. 5. No conventional transport allowed within the campus

### 7.2 – Best Practices

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

1. School outreach programmes: It is important to know that the school teachers should shape their students who go for higher education and should be aware of latest trend of professional courses such as B.E or B.Tech . Also school students should equip their qualities in all the manner while they transform from the school to college. Science and Engineering outreach, also known as Education and Public Outreach or simply public outreach, refers to a wide range of activities carried out by research institutes, universities, and institutions with the goal of increasing public awareness (and understanding) of science and engineering and making informal contributions to education. Among AEC, we wanted to raise awareness in schools in E.G. district and other districts for the same goal. We are inviting school groups to our campus for lab visits and workshops. Students will be given lectures in a variety of disciplines. Another kind of science outreach is inviting school teachers to workshops where they learn successful ways for engaging pupils in science. Such

seminars are also being scheduled for the future. We not only organise independent events, but we also support existing activities that raise scientific awareness. AEC faculty and staff participate in international, national, and state-level scientific and engineering activities on a regular basis for this reason. 2. e-content development The goal of e-content development is to create high-quality e-Content as well as competence for creating such content in the long run. The e-Content production and web-based learning described here are not intended to replace traditional teaching and learning, but rather to augment it. Once created, the e-Content will be maintained and made available to all faculty and students in the university system throughout the college. The purpose of this initiative is to encourage individual instructors, groups of college teachers, and IT professionals in content creation and multimedia production to create instructional content in electronic format that can be used in a variety of teaching and learning programmes. The content duration has been calculated based on the number of hours necessary to complete the subject in the classroom. A classroom course, for example, requires one credit, and a credit is equivalent to 15 hours. A courses material will be counted as 15 hours of classroom instruction.

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

<http://www.aec.edu.in>

### 7.3 – Institutional Distinctiveness

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

1. Aditya Engineering college received 04 Pratibha Awards ( Topper of the District in each Department) 2. Four Departments (CSE, PT, EEE and ME) Recognized as Research Centers by JNTUK. 3. DSIR recognized our Institution as Scientific and Industrial Research Organization (SIRO) 4. Indian AstroBiological Research Centre CENTRE FOR UNITED NATIONS CONFERRED Aditya Engineering College (A) AS BEST COLLEGE IN INDIA. Dr. Veeravilli Suryanarayana, Professor, Department of HBS, was appointed as CAMPUS AMBASSADOR CITY COORDINATOR, IARC, CENTRE OF UNITED NATIONS, For Driving Successfully the Rio 24 Program. Aditya Engineering College was selected as the Best Institution in India for conducting Rio 24 successfully. Dr. Suryanarayana Veeravilli will receive the Rio25 Reward in Recognition Ceremony which will be held on 29th December 2019 in Nehru Centre, Mumbai. 5. AEC selected as 3 Best Institution by implementing Cleanliness by Swachha Bharat Mission. Award received by Principal from Vice Chairman of AICTE.

Provide the weblink of the institution

<http://www.aec.edu.in>

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

1. Resolved to go for NBA Accreditation for at least 5 departments. SAR will be submitted in the month of January, 2020. 2. Enhancement of Research Activities, Aiming for funding from Govt. agencies. 3. Aiming for more GATE ranks for the college in all Departments 4. Aiming for high payed jobs from Reputed Companies. 5. Working with MSME and involving in Rural Development. 6. Encouraging research scholars and Doctorates towards research activities.