



Yearly Status Report - 2018-2019

Part A

Data of the Institution

Part A	
Data of the Institution	
1. Name of the Institution	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.	08852252243
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

2. Institutional Status																			
Autonomous Status (Provide date of Conformant of Autonomous Status)	08-Mar-2017																		
Type of Institution	Co-education																		
Location	Rural																		
Financial Status	private																		
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																		
3. Website Address																			
Web-link of the AQAR: (Previous Academic Year)	https://www.aec.edu.in/AQAR																		
4. Whether Academic Calendar prepared during the year	Yes																		
if yes, whether it is uploaded in the institutional website: Weblink :	https://www.aec.edu.in/uploads/aqar/Calendar_18-19.pdf																		
5. Accrediation Details																			
<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>01-May-2020</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	A	3.11	2015	01-May-2015	01-May-2020
Cycle	Grade	CGPA	Year of Accrediation	Validity															
				Period From	Period To														
1	A	3.11	2015	01-May-2015	01-May-2020														
6. Date of Establishment of IQAC	15-Nov-2011																		
7. Internal Quality Assurance System																			
Quality initiatives by IQAC during the year for promoting quality culture																			
Item /Title of the quality initiative by IQAC		Date & Duration		Number of participants/ beneficiaries															
Workshop on IPR and		18-Jul-2018		210															

Patents	1	
IV Academic Council Meeting	05-Jan-2019 1	28
25th Governing Body Meeting	13-Apr-2019 1	13
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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
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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	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	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

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

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

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

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

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
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Date of Visit	01-May-2015
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16. Whether institutional data submitted to AISHE:	Yes
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Year of Submission	2019
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Date of Submission	01-Mar-2019
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17. Does the Institution have Management Information System ?	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
BTech	1A02	EE	10/11/2018
BTech	1A03	ME	10/11/2018
BTech	1A01	CIVIL	10/11/2018
BTech	1A27	PETROLEUM TECH	10/11/2018
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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
BTech	ME	11/06/2018	Employability skills 01	11/06/2018
BTech	CSE	11/06/2018	Employability skills 02	11/06/2018
BTech	IT	11/06/2018	Soft Skills	11/06/2018
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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	11/06/2018
Mtech	ALL	11/06/2018
MBA	ALL	11/06/2018
MCA	NA	11/06/2018

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
NPTEL	11/06/2018	1567
MICROSOFT	11/06/2018	150
CISCO	11/06/2018	115
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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
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BTech	ALL	134
MBA	ALL	65
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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
Online feed back is collected from Alumni and regular students. Feed back collected in hard copy from parents and employers.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BTech	All	1080	948	948
Mtech	All	186	29	29
MBA	NA	60	52	52
MCA	NA	60	34	34
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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	966	130	216	55	2

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
273	273	7	85	5	5

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 25 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
5145	273	1:19

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
19	19	0	19	8

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr V Suryanarayana	Professor	Ambassador for Indian AstroBiological Research Center FOR UNITED NATIONS
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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BTech	UG	Semester	20/04/2019	01/06/2019
Mtech	PG	Semester	30/01/2019	20/04/2019
MBA	PG	Semester	25/05/2019	05/06/2019
MCA	PG	Semester	25/05/2019	05/06/2019
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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
0	5080	0

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the

institution are stated and displayed in website of the institution (to provide the weblink)

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

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
1A	BTech	Civil	133	100	75.19
1A	BTech	EEE	130	85	65.38
1A	BTech	ME	199	132	66.33
1A	BTech	ECE	277	193	69.68
1A	BTech	CSE	166	113	68.67
1A	BTech	IT	57	36	63.16
1A	BTech	PT	70	41	58.57
1A	BTech	Min E.	34	14	41.18
1A	BTech	Ag E	63	29	46.03
1D	MBA		53	50	94.33
1D	MCA		38	34	89.47
1D	Mtech	VLSID	6	5	83.33
1D	Mtech	ES	3	3	100
1D	Mtech	CSE	4	2	50
1D	Mtech	PE	9	6	66
1D	Mtech	PED	2	2	100
1D	Mtech	TE	5	5	100
1D	Mtech	STE	8	7	87.5
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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>

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

No

No file uploaded.

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
National	Abhishek Kumar Tripathi	Excellent Researcher	17/05/2019	IARE 2019 Organized by

GISR
Foundation, New
Delhi.

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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
Any Other (Specify)	2	DST	16.5	0
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

No Data Entered/Not Applicable !!!

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
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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
NPTEL Rank	All India 39 Rank	MHRD	15/02/2019	FDP
ISTE Best Student Chapter	Best Student Chapter	ISTE	06/03/2019	Student Chapter
Student Toppers	Pratibha	JNTUK	12/02/2019	Student Merit
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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 Incubator	Aditya Engineering College	Itzmychoice	Online Domestic Services	19/10/2018
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 a 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
Civil Engineering	1
EEE	4
ECE	3
Mechanical Engineering	3

Physics	1
Management Science	1
Mathematics	1

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

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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
Mechanical Engineering	1
Petroleum Engineering	1
Computer Science and 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
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
Performance Evaluation of Quartet Shift Dual Tree Complex Wavelet Transform Based MULTIFOCUS Image Fusion Using Fusion Rules	N. Radha	International Journal of Electronics and Communication Engineering	2019	1	Aditya Engineering College	0
Heat transfer augmentation techniques in forced flow Vthrough solar	A. Saravanan	International Journal of Thermal Sciences	2019	0	Aditya Engineering College	2

collector equipped with VCut and square twisted tape						
Touchdown PCR Combined With Semi Degenerate Primers for Rapid Amplification of HOXD9 Loci in Humans	V. Suryanarayana	Journal of Pharmaceutical Science Research	2019	2	Aditya Engineering College Aditya Engineering College	2
Nonlinear Transient Analysis of Delaminated Curved Composite Structure under blast/pulse Load	Chetan Kumar Hirwani	Engineering With Computers	2019	1	Aditya Engineering College	1
Nonlinear Thermal Free Vibration Frequency Analysis of Delaminated Shell Panel Using FEM	Chetan Kumar Hirwani	Composite Structures	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
Assessment of Godavari River Water Quality in and Around Rajamahendravaram	P. Lakshmi,	International Journal of Innovative Technology and Exploring Engineering	2019	1	Aditya Engineering College	1

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
Performance Enhancement of Centrally Finned Twist Inserted Solar Collector Using Corrugated Booster Reflectors	A. Saravanan, M.Murugan, R.Vijayan, S.Jaisankar	Published in The Energy	2019	3	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
Image Inpainting Based on Fractional-Order Nonlinear Diffusion for Image Reconstruction	G. Sridevi	Circuits, Systems, and Signal Processing	2019	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
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
Characterization, Optical and Luminescence features of Cobalt ions in multicomponent PboAl ₂ O ₃ TeO ₂ GeO ₂ SiO ₂ glass ceramics	T. Narendrudu, Ch.Tiripataiah, A.Suneel Kumar, G.Chinna Ram, M.V Sambasiva Rao	Optical Materials	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
Asymptotic Stability of Solution of Lyapunov Type Matrix Volterra IntegroDynamic System on Time Scales	G. Venkata Ramana, G. V.S.R.Deekshitulu	International Journal of Engineering Technology	2018	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
Assessment godavari river water quality in and around Rajamahendravaram	P. Lakshmi,	IJITEE	2019	1	Aditya Engineering College	1
Experimental study on high performance concrete as partial replacement of nanosilica in cement	A.S.V. Nagaraju	IJTICES	2019	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
Review of Gas Turbine Blades	Hussain,	International Journal of Management, Technology and Engineering	2018	1	Aditya Engineering College	1
Performance Enhancement of Centrally Finned Twist Inserted Solar Collector	A. Saravanan, M.Murugan, R.Vijayan, S.Jaisankar	The Energy	2019	1	Aditya Engineering College	1

Using Corrugated Booster Reflectors						
Nonlinear Thermal Free Vibration Frequency Analysis of Delaminated Shell Panel Using FEM	Chetan Kumar Hirwani	the Composite Structures	2019	1	Aditya Engineering College	1
Nonlinear Transient Analysis of Delaminated Curved Composite Structure under blast/pulse Load	Chetan Kumar Hirwani	Engineering With Computers	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
Optimization of Process Parameters in Welding	A. Sirisha Bhadrakali	International Journal for Innovative Engineering and Management Research	2019	1	Aditya Engineering College	1
Image Inpainting based on Fractional order nonlinear diffusion	Ms. G. Sridevi and Mr. S.Srinivas Kumar,	circuits, systems and signal processing	2019	1	Aditya Engineering College	1

for image reconstruction						
Multifocus Color Image Fusion Based on Walsh Hadamard Transform and Sum Modified Laplacian Focus	nainavarapu Radha,	IJIES	2019	1	Aditya Engineering College	1
Performance evaluation of quarter shift dual tree complex wavelet transform based multifocus image fusion using fusion rules	Nainavarapu Radha, Tummala Ranga Babu	IJECE	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
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
Field Evaluation of dynamic	R.Srinivasa Rao	International Journal	2019	2	Aditya Engineering College	1

PCU and heterogeneous traffic conditions		for Research in Applied Science Engineering Technology				
Development of Therapeutic food for Adolescent Girls	B.J.V. Sainay	International Journal of Current Microbiology and Applied Sciences	2019	1	Aditya Engineering College	1
Touchdown PCR combined with semi degenerate primers for rapid amplification of HOXD9 loci in humans	Suryanarayana Veeravalli	Pharm. Sci. Res.	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
Feminist voice in 'Ms Militancy' by meena kandasamy	MSC Sophia 26. MSC Sophia	IJR	2019	1	Aditya Engineering College	1
Women in technology	MSC Sophia	International journal of emerging technologies in research	2019	2	Aditya Engineering College	1

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

Title of the	Name of	Title of journal	Year of	h-index	Number of	Institutional
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Paper	Author		publication		citations excluding self citation	affiliation as mentioned in the publication
No Data Entered/Not Applicable !!!						
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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	40	3	0	0
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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(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
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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
No Data Entered/Not Applicable !!!				
No file uploaded.				

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 KAKINADA	43	531
BLOOD DONATION CAMP	GGH Rajahmundry	24	372
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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
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Blood Donation	Highest Number of Units collected in Blood Donation from Governor	State Government of Andhra Pradesh	700
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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/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
No Data Entered/Not Applicable !!!				
View File				

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
No Data Entered/Not Applicable !!!			
No file uploaded.			

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
No Data Entered/Not Applicable !!!					
No file uploaded.					

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
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Seminar Halls	Existing
Campus Area	Newly Added
Class rooms	Existing
Laboratories	Existing

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	1.0.1	2005

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	55990	19582000	477	181000	56467	19763000
Reference Books	23039	882000	318	120000	23357	1002000
e-Books	265	0	2485	3550000	2750	3550000
CD & Video	2500	0	195	0	2695	0
e-Journals	2000	1100000	0	0	2000	1100000
View File						

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
No Data Entered/Not Applicable !!!			
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 (MGBPS)	Others
Existing	1435	15	3	2	1	1	9	500	0
Added	150	2	0	0	0	0	0	0	0
Total	1585	17	3	2	1	1	9	500	0

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

500 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)	http://jntuk-coeerd.in/

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 swayan courses. signing MOUs with various organisations 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
No Data Entered/Not Applicable !!!			
View File			

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
No Data Entered/Not Applicable !!!			
View File			

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
No Data Entered/Not Applicable !!!					
View File					

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
No Data Entered/Not Applicable !!!					
View File					

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
No Data Entered/Not Applicable !!!					
View File					

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
No Data Entered/Not Applicable !!!	
View File	

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 !!!		
View File		

5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
No Data Entered/Not Applicable !!!						
No file uploaded.						

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

A student committee is formed to conduct a technical fest called VEDA, cultural fest COLOURS. Clubs like language club, robo club, programming club, etc are organized successfully by students alone. Student participation is there in IQAC every meeting. Feedback from students given high priority to create facilities and procedures.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of registered Alumni:

2125

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

05

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)

1. All the Heads of Departments of AEC are very much capable of developing own strategies for teaching, carrying out research and implementing various projects. All the departments work as independent bodies. 2. All the conveners of various committees have lot of freedom and are empowered to take decisions and plan their own activities. Only for financial support and administrative support for providing resources they approach the Principal and Management. Otherwise, there is lot of freedom to work.

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-governance 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	BEEES 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
No Data Entered/Not Applicable !!!				
View File				

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

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 !!!				
View File				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
25	0	18	0

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)

At the end of each semester laboratory audit is conducted. At the end of each financial year Academic Administrative Audit is conducted.
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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
No Data Entered/Not Applicable !!!		
View File		

6.4.3 – Total corpus fund generated

800000

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.

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.

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.

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Research Incubation for Students of II and III B Tech	12/06/2018	12/06/2018	31/05/2019	149
No file uploaded.					

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
Seminar on Gender Equity	11/06/2018	12/06/2018	175	215
Seminar on Opportunities for Women in Entrepreneurship	23/01/2019	25/01/2019	145	0
Seminar on Role of Women in Social Development	13/11/2018	15/11/2018	120	0

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. Rain Water Harvesting Pits have been constructed in the Campus. Swatch Bharat Campaign is made in the Campus and near by villages.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Ramp/Rails	Yes	15
Rest Rooms	Yes	15
Special skill development for differently abled students	Yes	15
Scribes for examination	Yes	2

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2018	5	5	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	5	5	18/02/2019	05	Coir Cluster Implementation	Problems of artisans, entrepreneurs, poor	20

marketing problems, obsolete machinery, technology upgradation, training requirements, submission of DPR to Coir Board, MSME

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

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. No conventional transport allowed 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.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. Student are made to participate in identifying social problems and this year, four field visits made by Agriculture, Mechanical and MBA students along with faculty and reported a report to MSME for implementation of coir clusters.
2. Established Research Incubation which is useful for both students and faculty for writing research papers by second year students. In second year, ECE and EEE students learn to make literature survey, write review papers. In third B. Tech, they start identifying technical problems and identify tools and solve them and learn publishing papers. This year, they have submitted 12 papers by students.

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.