



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.	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

2. Institutional Status																			
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.	08842326202																		
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)	http://aec.edu.in/AQAR/2017%2018.pdf																		
4. Whether Academic Calendar prepared during the year	Yes																		
if yes,whether it is uploaded in the institutional website: Weblink :	https://aec.edu.in/?p=acc#tab4																		
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>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														
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 Patents		18-Jul-2018 1		80															

Seminar on academic and administrative audit	22-Feb-2019 1	120
FDP on teaching and learning process	15-Mar-2019 2	116
Two days workshop on outcome based education	07-Dec-2018 2	120
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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
NIL	NIL	NIL	2019 0	0
No Files Uploaded !!!				

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 attend National Event Baja2019 2. Five Patents have been published by Faculty and total 23 Faculty were involved as inventors 3. Two faculty Published Books with International Publishers. 4. Incentives given to faculty for Paper publication, have been revised. 5. New courses have been offered by the 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	20-Mar-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
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	Mechanical Engineering	29/05/2017
MBA	ALL	29/05/2017
MCA	NA	29/05/2017
Integrated(PG)	IMBA	29/05/2017
BTech	Civil Engineering	29/05/2017
BTech	Electrical and Electronics Engineering	29/05/2017
BTech	Electronics and Communication Engineering	29/05/2017
BTech	Computer Science and Engineering	29/05/2017
BTech	Information Technology	29/05/2017
BTech	Agriculture Engineering	29/05/2017
BTech	Mining Engineering	29/05/2017
BTech	Petroleum technology	29/05/2017
Mtech	structural Engineering	29/05/2017
Mtech	thermal Engineering	29/05/2017
Mtech	Power Electronics and Drives	29/05/2017
Mtech	Computer Science and Engineering	29/05/2017
Mtech	software engineering	29/05/2017

Mtech	VLSI Design	29/05/2017
Mtech	Embedded Systems	29/05/2017
Mtech	Petroleum Engineering	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
24	09/07/2018	3367
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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 !!!		
View File		

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
<p>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</p>

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
No Data Entered/Not Applicable !!!				
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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	4506	366	223	25	8

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
256	255	9	88	2	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
4872	256	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
256	256	0	27	38

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
No Data Entered/Not Applicable !!!			
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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
No Data Entered/Not Applicable !!!				
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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
48	2449	1.96

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
No Data Entered/Not Applicable !!!					
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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://aec.edu.in/?p=IQAC#tab4

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

Yes
Name of the teacher getting seed money

Nill

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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
Nill	NIL	NIL	Nill	NIL
No file uploaded.				

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
Industry sponsored Projects	120	Non-Government	650000	650000
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

0.02

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
No Data Entered/Not Applicable !!!		
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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
No Data Entered/Not Applicable !!!				
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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
No Data Entered/Not Applicable !!!					
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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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NIL	0
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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)
No Data Entered/Not Applicable !!!			
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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
No Data Entered/Not Applicable !!!	
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
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
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
Electric Off Road Vehicle (Design)	Filed	315317001	03/03/2019

Sugarcane Harvesting Machine	Filed	2018410280	26/07/2018
No file uploaded.			

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
Feminist voice in 'Ms Militancy' by meena kandasamy	MSC Sophia 26. MSC Sophia	IJR	2019	1	Aditya E ngineering College	1
Heat transfer augmentation techniques in forced flow Vthrough solar collector equipped with VCut and square twisted tape	A. Saravanan	Internat ional Journal of Thermal Sciences	2019	0	Aditya E ngineering College	2
Touchdown PCR Combined With Semi Degenerate Primers for Rapid Amplification of HOXD9 Loci in Humans	V. Surya narayana	Journal of Pharmac eutical Science Research	2019	2	Aditya E ngineering CollegeAdi tya Engine ering College	2
Nonlinear Transient Analysis of Delaminated Curved Composite Structure under blast/pulse Load	Chetan Kumar Hirwani	Engineer ing With Computers	2019	1	Aditya E ngineering 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 Rajahmahan dravaram	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	A. Saravanan, M.Murugan, R.Vijayan, S.Jaisanka	Published in The Energy	2019	3	Aditya Engineering College	1

Twist Inserted Solar Collector Using Corrugated Booster Reflectors	r					
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 mu	T. Narendrudu, Ch. Tiripataiah, A.Suneel Kumar, G.Chinna Ram, M.V	Optical Materials	2018	1	Aditya Engineering College	1

lticomponent PboAl2O3TeO2GeO2SiO2 glass ceramics	Sambasiva Rao					
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
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	Ch Amarendra, K Harinadha	Smart Intelligent Computing and Applic	2019	1	Aditya Engineering College	1

Pulse Sequence ISVM for SixPhase Matrix Converter Fed Drives	Reddy	ations				
Review of Gas Turbine Blades	Hussain,	in International Journal of Management Technology and Engineering	2018	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
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	A.Saravanan	International Journal of Thermal Sciences	2019	1	Aditya Engineering College	1

in forced flow Vthrough solar collector equipped with VCut and square twisted tape						
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 for image reconstruction	Ms. G. Sridevi and Mr. S.Srinivas Kumar,	circuits, systems and signal processing	2019	1	Aditya Engineering College	1
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	Nainavarapu Radha, Tummala Ranga Babu	IJECE	2019	1	Aditya Engineering College	1

fusion rules						
IMAGE SUPER RESOLUTION BY INTERPOLATION AND EDGE MODIFICATION	S.B.G.Tilak Babu, V.Satyanarayana, N.Srinivasa Gupta, G.Jyothirmai, N.V.Satyanarayana, K.Pavani	Advanced Research in Dynamical Control Systems	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
Women in technology	MSC Sophia	International journal of emerging technologies in research	2019	2	Aditya Engineering College	1
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
Image Fusion	S.B.G.Tilak Babu,	International	2019	1	Aditya Engineering	1

Using Eigen Features And Satatony Wavelet Transform	K.H.K.Prasad, G.Jyotirmirai, N.V.Satyanarayana, Devi Bhavani Kadali, V.Satyanarayana, K.Pavani	Journal of Innovative Technology and Exploring Engineering			College	
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
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
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
No file uploaded.						

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
Aditya Engineering College	SBG TILAK BABU	Communication and Electronic Systems (ICCES), 2017 2nd International Conference	2018	1	0	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	0	Aditya Engineering College
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
A Matlab Implementation of Standard Deviation Pooling based Gradient Magnitude Similarity Deviation (GMSD) FR-	Samudrala Jagadish	International Journal of Emerging Technology and Advanced Engineering	2018	1	2	Aditya Engineering College

IQA Model						
An Efficient Method for Segmentation of Noisy and Non-circular Iris Images Using Optimal Multilevel Thresholding	M.Raja Sekhar	Journal of Advanced Research Dynamical Control System	2019	1	0	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	0	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	0	Aditya Engineering College
Image inpainting based on fractional-order nonlinear diffusion for image reconstruction	G.Sridevi	Circuits, System, and Signal Processing	2019	2	2	Aditya Engineering College
International Journal of Emerging Technology	N Radha	ijies	2019	2	2	Aditya Engineering College

and Advanced E ngineering					
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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	20	0	0	0
No file uploaded.				

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)
No Data Entered/Not Applicable !!!			
View File			

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
NIL	NIL	NIL	0	0
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
No Data Entered/Not Applicable !!!			
View File			

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
No Data Entered/Not Applicable !!!			
View File			

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
Training on ARC	SDVV Bhimesh Reddy	Aditya Engineering College	14
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 !!!					
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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
No Data Entered/Not Applicable !!!			
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
500	264.26

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with Wi-Fi OR LAN	Newly Added
Seminar Halls	Existing
Campus Area	Existing
Class rooms	Newly Added
Laboratories	Existing
Classrooms with LCD facilities	Newly Added
Seminar halls with ICT facilities	Existing
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
View File	

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	Fully	4.0	2005

4.2.2 – Library Services

Library Service Type	Existing	Newly Added	Total
No Data Entered/Not Applicable !!!			
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
Nil	Nil	Nil	Nil
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
Existing	1075	26	26	2	1	1	11	150	0
Added	165	0	0	0	0	0	0	200	0
Total	1240	26	26	2	1	1	11	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)	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
500	473.08	200	145.1

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.

<https://www.aec.edu.in/NAAC/criterias/4/4.4.2%20Maintanace%20policy%20&%20SOP.pdf>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Merit Scholarships	1588	2856300
Financial Support from Other Sources			
a) National	Reimbursement of Tuition fee by Government of A.P. Reimbursement of Tuition fee by Government of T.S Reimbursement of Tution fee (EdCIL India Ltd.)	3003	126973805
b) International	0	0	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
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 passedin the comp. exam	Number of studentsp placed
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
4	4	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
51	886	550	8	695	113
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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
2019	Nil	Nil	Nil	Nil	Nil
2019	Nil	Nil	Nil	Nil	Nil
2019	Nil	Nil	Nil	Nil	Nil
2019	Nil	Nil	Nil	Nil	Nil
2019	Nil	Nil	Nil	Nil	Nil
2019	Nil	Nil	Nil	Nil	Nil
2019	Nil	Nil	Nil	Nil	Nil
2019	Nil	Nil	Nil	Nil	Nil
2019	Nil	Nil	Nil	Nil	Nil
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
GATE	8
CAT	1
Any Other	11
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 !!!						
View File						

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

The institute believes that student involvement in academic and administrative activities plays crucial role in development of the institute. In this regard, the students are encouraged to be a part of academic, administrative committees and student council. Students actively participate and organize various academic, co-curricular, extra-curricular and extension activities. This empowers the students to gain leadership qualities, managerial skills, and team work. The institute has an active student council with Principal, all head of the departments, student representatives as its members. One student acts as the convenor and one student acts as the secretary of the committee. The student council acts as a facilitator between students and the institute. The activities and functions of the Student Council are:

- To organize various academic, co-curricular, extra-curricular and extension activities.
- To maintain overall discipline/student etiquette in the campus during the events.

Students as members of various committees involve in decision making process by providing suggestions and feedback. This facilitates the institute to understand the student perception on various issues. Students' representation is given proper weightage for the holistic development of the institute. Student representation is active in the following list of committees:

- Anti-Ragging Committee
- Alumni Committee
- Canteen Committee
- Internal Quality Assurance Cell (IQAC)
- Cultural Committee
- Eco Club
- Entrepreneurship Development Cell (EDC)
- Grievance Redressal Committee
- Health Committee
- Hostel Committee
- Committee for ICT/LMS/ILMS/E-Resources
- Library Committee
- Sports Committee
- Committee for Training and Development, Career Counselling and Placement
- Website Committee
- Internal Complaints Committee
- NSS Committee
- Youth Red Cross Unit
- Leo-Club

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The institute believes that an active alumni association can significantly contribute to academic matters and student support. In this connection, alumni are encouraged to be a part of various statutory committees of the institute. The institute encourages student-alumni interactions that would benefit the students in advanced learning from rich expertise of the alumni. The institute has a registered and functional Alumni Association. It is proactive, supportive, and works for the development of the students and the institute. It has a governing body with President, Vice-president, Secretary, Treasurer and General Secretary. Two alumni chapters are formed at Hyderabad and Bangalore which actively contribute to outreach activities. The alumni involve actively in the following activities:

- Curriculum development and revision
- Deliver Guest lectures on emerging technologies
- Career guidance to enlighten the students on different career options
- Provide industry-institute interaction
- Support for placements and internships
- Entrepreneurship guidance

5.4.2 – No. of registered Alumni:

1152

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

109550

5.4.4 – Meetings/activities organized by Alumni Association :

16

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)?

Yes

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Admission of Students	Admissions are done according to State Board of Higher Education Guidelines. A Category through Councelling B Category through entrance exam conducted by the college and based on the merit. PIO Quota filled by foreign students.
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.
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.

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

E-governance area	Details
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.

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 !!!				
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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)
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 !!!				
View File				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
27	27	28	28

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
NIL	0	NIL
No file uploaded.		

6.4.3 – Total corpus fund generated

0

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	Null	Yes	Principal
Administrative	No	Null	Yes	Principal

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
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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
Is Technology Effecting Gender Equity	23/08/2018	23/08/2018	40	20
Challenges for Women in Work Place	10/09/2018	10/09/2018	47	40
Gender Equity and Diversity	26/10/2018	26/10/2018	30	29
Gender Equity In Sports	12/11/2018	12/11/2018	53	30
Awarenees on Economic Empowerment for Women	28/12/2018	28/12/2018	20	39
Equal Rights to Men and Women	21/01/2019	21/01/2019	67	20
Need for Gender Equity	05/03/2019	05/03/2019	40	28

and its Persistence in Educational Institutions				
Scope for Gender Equity in Academics	29/03/2019	29/03/2019	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
1. 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 Over KL Rao Bhavan 100 kW, Over Bill Gates Bhavan 150 kW and Boys Hostel 100 kW is installed. 2. Plantation of Trees in abundance. 3. Swatch Bharat Campaign is made in the Campus and near by villages. 4. 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	11
Rest Rooms	Yes	12
Scribes for examination	Yes	1

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	1	1	12/11/2018	01	Survey in near by villages	Identification of resources and problems	20
No file uploaded.							

7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Seminar on human values and professional ethics	10/04/2019	Inculcating human values in students as a mandatory course in the curriculum

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

Best Practice 1: Title of the Practice: Promotion of Self Learning Objectives of the practice: To promote self-learning among students and faculty through MOOCs. Context: The advent of emerging technologies paved the way for self-learning through MOOC platforms like NPTEL, Coursera and Udemy. The Practice: The institute wants to train the students and faculty in emerging technologies, which is a challenging task, given the availability of resources. MOOC platforms like NPTEL and Coursera helped to overcome this challenge. The institute promotes self-learning of students and faculty by encouraging them to register and complete the courses through MOOC platforms. The institute will bear the entire course fee on behalf of students and faculty. Evidence of success: With the support provided by the institute, faculty and students have successfully completed many courses through NPTEL. In the academic year 2018-19, the institute is recognized as "Valuable Local Chapter" with a rating of A by SWAYAM-NPTEL. Problems encountered and resources required: Motivating the students to pursue self-learning posed a major challenge. Initially some students registered for a course and are unable to complete it due to lack of motivation. Faculty mentors played an effective role in motivating the students towards the completion of the course. The department of Mining Engineering secured the best performance award for their best performance in Swayam - NPTEL examinations during the year.

Best Practice 2: Title of the Practice: Engineering Projects and Community Service. Objectives of the practice: To extend service to community through innovative projects. Context: To encourage and motivate students to improve their performance in their specific domains leading to significant contributions towards the growth and development of the nation. The Practice: The institute believes that knowledge and skill gained by students and faculty should support the purpose of community service. Students are continuously encouraged to pursue challenging problems and provide optimal solutions to them. Socially relevant projects are identified and allotted to a set of students. Progress is reviewed periodically by the project review committee, and suitable suggestions are provided. Evidence of success: By collating the ideas of students and faculty, the institute has gained recognition at the national level. One project from the ECE department secured first position at AICTE-ECI-ISTE Chhatra Viswakarma Awards-2019. Problems encountered and resources required: Attracting a greater number of students towards community service is a challenge. It requires interaction with people in the nearby community, understanding their problems and arriving at a solution. This is overcome by regular motivation by a project review committee.

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

<https://aec.edu.in/?p=Best%20Practice#tab4>

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

The Institute constantly focuses on academic excellence through innovative teaching learning processes. Students are encouraged towards participative

learning, experiential learning and problem solving. Students and faculty are encouraged towards MOOCs for promoting self-learning. The institute regularly conducts workshops, guest lectures and FDPs to enhance the learning experience of students and faculty. The skills derived from hands on workshops helps the students to build innovative projects. The institute secured two Gold medals at University examinations. One project from the ECE department secured first position at AICTE-ECI-ISTE Chhatra Viswakarma Awards-2019. Four Departments (CSE, PT, EEE and ME) are recognized as Research Centers by JNTU Kakinada

Provide the weblink of the institution

<https://aec.edu.in/?p=Institute%20Distinctiveness#tab4>

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.