



Yearly Status Report - 2018-2019

Part A

Data of the Institution

1. Name of the Institution		ARUNAI ENGINEERING COLLEGE
Name of the head of the Institution		Dr.L.Jayakumar
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		04175255101
Mobile no.		9842073165
Registered Email		aectvm1993@gmail.com
Alternate Email		praveenramanujam@gmail.com
Address		Velu Nagar, Mathur, Tiruvannamalai
City/Town		Tiruvannamalai
State/UT		Tamil Nadu
Pincode		606603
2. Institutional Status		

Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Rural
Financial Status	private
Name of the IQAC co-ordinator/Director	R. Praveen Kumar
Phone no/Alternate Phone no.	04175255102
Mobile no.	9842073165
Registered Email	praveenramanujam@gmail.com
Alternate Email	pkmtech@gmail.com

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://www.arunai.org/NAAC/
4. Whether Academic Calendar prepared during the year	Yes
if yes, whether it is uploaded in the institutional website: Weblink :	http://www.arunai.org/NAAC/

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
3	A	3.05	2015	01-May-2015	30-Apr-2020

6. Date of Establishment of IQAC	08-Sep-2010
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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
Internal auditor training for ISO 9001:2015 standards	30-Jul-2018 2	10
IQAC Meeting	16-Aug-2018 1	12

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

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Dr. S. Palani/Biotechnology	FDP	AICTE	2019 14	450000
Mr. R. Praveen Kumar	Conference, Travel, Exhibition and Popular Lectures (CTEP)	Department of Biotechnology (DBT), Government of India	2018 3	85000

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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 :

1

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)

With reference to the recommendations of IQAC working hours has been changed as follows For Staffs 08.15AM to 04.45PM changed to 09.00AM to 04.45PM For 1st and 2nd year students 08.30AM to 03.40PM changed to 09.20AM to 04.30PM For 3rd year, final year and PG students Remains same as 09.20AM to 04.30PM

Awareness training and internal auditor training for ISO9001:2015 standards during 1st week of August 2018.

Internal audit for ISO9001:2015 standards has been conducted on 20th August 2018

Change in working hours for students was discussed, considering the travel time of outstation students members suggested to adopt uniform working hours for all students. The timing 09.20 AM to 04.30 PM was recommended from next semester,

subjected to the approval from the management.

To improve the research and development cell

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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
Job fair was planned on 18th August 2018.	Job fair was organized on 18th August 2018.
To have ISO Transition audit	ISO Transition audit done
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
Governing Council	05-Jul-2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

No

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2018

Date of Submission

06-Feb-2018

17. Does the Institution have Management Information System ?

No

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

Yes, the institution has a well-planned mechanism for curriculum planning and delivery as per the standards stated in the quality manual of ISO 9001:2015. At the beginning of each semester lesson plans will be obtained from the staffs for the subjects which they are teaching. The syllabus taught should be marked on hour basis and should be submitted to the head of the department by the end of every month, any deviations in the syllabus completion should be seriously

addressed and extra hours should be allocated for the completion of the portion.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
Kreyo (Modelling software)	Nil	01/08/2018	30	Focus on employability	Mechanical Modelling software updation

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 affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
No Data Entered/Not Applicable !!!		

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

	Certificate	Diploma Course
Number of Students	Nil	Nil

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
Rivet	17/01/2018	44
CISCO CCNA Program	03/07/2018	72
CATIA	10/08/2018	48
CISCO IT Essentials Program	10/07/2018	65
Course on NS2 Simulation	08/08/2018	20
Mini project and working models	17/08/2018	3
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1.3.2 – Field Projects / Internships undertaken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	EEE	12
BTech	Chemical Engineering	13
BE	CSE	4

BE	Civil Engineering	16
BTech	Biotechnology	18
BTech	IT	2
BE	Mechanical Engineering	13
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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
AEC regularly collects feedback regarding the performance of the processes in the Quality Process Document from interested parties including students, parents, alumni and industry and takes action to ensure that the college fulfills customer satisfaction. • Students' feedback through class committee meetings • Students' feedback on the faculty members • Parents feedback • Feedback from industry • Feedback and findings from Accreditation agencies

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	291	50	188	33	221

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

219	108	3	18	10	3
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2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Yes, students mentoring system available in the institution, this process is described in the ISO 9001:2015 Quality manual of the institute, with reference to this, counsellors are appointed to every 20 students who will take care of the performance of the students, a counselling book is maintained for every student and all the details about the student will be marked in the book. Also as per the affiliating university curriculum, class advisors are appointed for every class, they will address the students periodically to encourage them in academic, cocurricular and extracurricular activities.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1697	219	1:20

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
219	219	Nill	12	26

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. SARAVANAN	Associate Professor	ISTESayed Sajid Ali National Award for outstanding research work in the field of Renewable Energy
2019	Dr. V. SARAVANAN	Associate Professor	Best ISTE Chapter Chairman Award by ISTE Tamilnadu Section (2018), 21th ISTE TNP Section Annual Convention for Engineering Faculty Members - 2018 at Karpagam Institute of Technology, Coimbatore during 29 -30 March 2019.
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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-	Date of declaration of results of semester-
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end examination

end/ year- end
examination

No Data Entered/Not Applicable !!!

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

Special Remedial Class, Assignment (Unit Wise), Revision Test The subject handling faculty prepares question bank that covers equal number of questions from each unit, covering all the topics Department internal exam coordinator under the guidance of HOD, checks for the standard of the question bank. College Internal exam Coordinator along with a Exam team selects the final internal questions for each subject from the question bank. Question papers are given to the internal exam coordinators of the department on the day of test, after approval from the Principal. Internal exam coordinator ensures smooth conduction of test and proper valuation of internal books. A Centralized valuation system is followed. Marks are entered in Softcopy as well as in hard copy .Faculty prepares the answer key / Scheme of evaluation and it is documented with a copy of sample question paper for the future reference.

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

Yes, academic calendar was prepared and adhered for the conduct of examination and other related matters. The affiliating university will circulate the tentative academic schedule at the start of every semester, the academic calendar of the institute will be prepared based on this schedule.

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.arunai.org/NAAC/>

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
CSE	BE	Nill	37	25	67.5
CIVIL	BE	Nill	106	41	38.67
IT	BTech	Nill	12	6	50
ECE	BE	Nill	51	40	78.3
AE	ME	Nill	1	1	100
EEE	BE	Nill	50	24	48
MECH	BE	Nill	197	134	68.02
CHEM	BTech	Nill	13	8	61.54
AUTO	BE	Nill	15	11	73
BIOTECH	BTech	Nill	46	42	91.3

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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the

questionnaire) (results and details be provided as weblink)

<http://www.arunai.org/NAAC/>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	730	Department of Science Technology	12.15	12.15
Students Research Projects (Other than compulsory by the University)	90	Tamilnadu State Council for Science and Technology	0.1	0.1
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3.2 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Intellectual Property Rights for Technologists	CSE	04/02/2019

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
ISTE TN Section Best Student Award	Mr.R.Ramalingam	ISTE	01/03/2019	ISTE TN Section Best Student Award
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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
00	00	00	00	00	Nil
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
5000	5000	50000

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

Name of the Department	Number of PhD's Awarded
HAS	3
EEE	1

Biotechnology	1
ECE	1

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	HAS	6	2.5
International	ECE	3	0.22
International	EIE	1	0.31
International	EEE	4	0
International	HAS	4	2.7
International	AUTO	3	1.2
International	BIOTECHNOLOGY	8	4.01
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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
BIOTECHNOLOGY	3
CSE	1
MECH	20
ECE	3
EIE	1
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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Biodiesel production from microalgae <i>Nannochloropsis oculata</i> using heterogeneous Poly Ethylene Glycol (PEG) encapsulated ZnOMn ₂ nanocatalyst	R.Praveen Kumar	Bioresourcetechnology	2019	12	Arunai Engineering College	12
A comprehensive	R Selvaraj	Biofuels	2018	19	Arunai Engineering	19

review of biodiesel production methods from various feedstocks					College	
Biogas production- A review on composition, fuel properties, feed stock and principles of anaerobic digestion	R.Praveen Kumar	Renewable and Sustainable Energy Reviews	2018	73	Arunai Engineering College	73
Bioethanol production from palm wood using Trichoderma reesei and Kluyveromyces marxianus	R.Praveen Kumar	Bioresource technology	2019	24	Arunai Engineering College	24
Experimental Verification of Single Phase Z Source Inverter for Photovoltaic Applications	V.Saravanan	International Journal of Power Electronics and Drive System (IJPEDS)	2018	3	Arunai Engineering College	3
Recent developments of smart grid projects in India	V.Saravanan	International Journal of Applied and Fundamental Research	2018	0	Arunai Engineering College	Nil
Prospects for further development of solarwind energy systems in Tiruvannam	V.Saravanan	International Journal of Applied and Fundamental Research	2018	0	Arunai Engineering College	Nil

alai district, Tamilnadu and India in general						
Smart vehicles for urban sensing based on content centric approach	V.Saravanan	International Journal of Ad Hoc and Ubiquitous Computing	2018	0	Arunai Engineering College	Nil
Conversion of waste sea shell (Anadara granosa) into valuable nanohydroxyapatite (nHAp) for biomedical applications	K. Dhanaraj	Vacuum journal	2018	0	Arunai Engineering College	Nil
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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
00	00	00	Nil	Nil	Nil	00
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	8	5	2	2
Presented papers	6	6	2	1
Resource persons	3	2	1	1
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3.4 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
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NSS Special Camp	1. Horticulture Department 2. Sanitary Department 3. Taluk Supply Officer 4. Forest Department	3	50
Republic Parade Camp	Anna University, Regional Office, Coimbatore	1	2
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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Award for Best B. Tech Project	Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, Punjab National Award for Best B. Tech Project from Engineering Colleges Related to Sustainable Development in Computer Science Engineering - 2018	ISTE	3
Best M. Tech. Thesis Award	ISTE-LT Best M. Tech. Thesis Award in Electrical Electronics Engineering-2016	ISTE	1
Best M. Tech. Thesis Award	ISTE-LT Best M. Tech. Thesis Award in Electrical Electronics Engineering-2016	ISTE	1
No file uploaded.			

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

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
ISTE Students Chapter Programs	ISTE	Guest Lecture	10	450
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3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
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Visiting Researcher to Swiss Federal Institute of Technology Lausanne (EPFL)	R. Praveen Kumar	Host Institute	60
Young Scientist Fellow - Tamilnadu State Council for Science Technology, Government of Tamilnadu At Department of Electrical Engineering, Indian Institute of Science, Bangalore, INDIA	Dr.V.SARAVANAN	Tamilnadu State Council for Science Technology, Government of Tamilnadu	90
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Research collaboration	Research collaboration	Swiss Federal Institute of Technology Lausanne (EPFL)	01/10/2018	30/11/2018	R. Praveen Kumar
Students Project	Project Work	M.D AUTOMATION	01/01/2019	30/04/2019	40
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
M.D AUTOMATION	10/01/2019	Project Work	40
MM FORGINGS ADROITEC	02/01/2019	Carrying out Project Learning Mechanical software	137
Indo-Srilanka Joint Research programme, by Department of Science Technology (DST), Government of India and	07/12/2018	Research	254

Ministry of Science, Technology Research (MSTR), Government of Sri Lanka			
Central Power Research Institute, Bangalore (A Government of India Society under Ministry of Power)	01/08/2018	Research	254
VEE Technologies	21/08/2018	Project Work	23
JD NET	04/08/2018	Project Work	21
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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
75	46.66

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Newly Added
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing
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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
MODERNLIB	Partially	1	2015

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	18729	41616	55	300	18784	41916
Journals	12	109	Nill	Nill	12	109
CD & Video	3199	51	Nill	Nill	3199	51
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under

Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
00	00	00	Nil
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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	871	6	100	2	6	1	10	100	0
Added	0	0	0	0	0	0	0	0	0
Total	871	6	100	2	6	1	10	100	0

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

100 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
00	Nil

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
50	42.6	25	28.63

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

<p>The institute has a centralized mechanism to maintain and utilize physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms. All the facilities were provided open to the stakeholders of the institute with the regulations provided by the top management which may be changed time to time according to the needs of the stakeholders</p> <p>http://www.arunai.org/infrastructure.html</p>

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	Academic	43	215000

from institution	Scholarship		
Financial Support from Other Sources			
a) National	Community Scholarship	855	9211405
b) International	Nil	Nil	Nil
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Placement training	06/08/2018	250	TIMES
Soft skill development	01/08/2018	42	Smart train
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	UPSC / GATE	3	1	1	1
2018	VISTA MIND	Nil	35	Nil	5
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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
21	19	18

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
UCAL FUEL, AVANTOR VWR, GODB TECH, HAN DIGITAL, JMECH, PENTAGON, SUTHERLAND, YOROZU, ZIFO	375	74	TCS	26	1

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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	2	BE Civil	CIVIL	1. Arunai Engg College 2. Annamalai University	Structural Engg. Construction Management
2019	1	B.TECH	CHEMICAL	AC TECH ANNA UNIVERSITY	MTECH

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

Items	Number of students selected/ qualifying
Any Other	12

No file uploaded.

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

Activity	Level	Number of Participants
Annual Sports Day 12	Institute Level	700

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5.3 – Student Participation and Activities

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

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

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

student representative has been included in the IQAC of the Institute

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

0

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

00

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 institute have well established decentralized mechanism which allows every stake holder will be participative. The IQAC consists of representatives from students, staff, administrative staff, general public and the top management. The decision making in the Governing Council will be based on the inputs from all level of stakeholders. Every department will conduct class committee meeting in which all the students will represent their grievances, the out come of this meeting will be reported in the department staff meeting, which will be then conveyed to the Principal. Principal after discussion with the HODs represent this issue in IQAC and consequently in the Governing council. This approach was found to be satisfactory and adopted to the system

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
Admission of Students	The admission of the institute is done by 2 methods. Government Quota and Management Quota admissions. The Direcotrate of technical Education, Government of Tamilnadu fills the Government Quota seats through a centralised counselling process. The management quota sets will be filled by the Insitute. Students willing to join in Managment Quota will be required to fill the Insititutes application format. These applications will be scrutinized and based on the availability of the seats, students will be admitted.
Industry Interaction / Collaboration	The Industry Institute Collaboration Cell is headed by the Principal, other members of the cell are the Placement and Training Officers, Heads of the Departments. The cell identifies the companies and industries and help the departments to sign MoU with them for various curricular and co-curricular activities of the students
Human Resource Management	The Human resource is managed by the central office with Registrar as its Head. Heads of the department identifies the HR requirement and

forward to the Principal. Principal after analysis of the requirement will forward the request to registrar. The vacancy positions will be advertised and the vacant positions will be filled by interview. The interview will be held for the incumbents in the presence of the Principal, Registrar, Head of the Department and an expert.

Library, ICT and Physical Infrastructure / Instrumentation

The Institute has a well equipped library with required books and journals. All the staff and student will be provided with library membership cards for lending.

Examination and Evaluation

As we are affiliated college the institute follows the examination pattern designed by the University. Apart from the end semester examination internal exams were organized regularly for every unit. Internal Exams were planned like Slip test 1 (1st Unit) Continuous Internal Assessment Test 1 (1st and 2nd Unit) Slip Test 2 (3rd Unit) Continuous Internal Assessment Test 2 (3rd and 4th unit) Model Exam (All 5 Units) This scheme of test will help the students to prepare for the entire syllabus

Teaching and Learning

The institute has well-planned teaching learning practice mechanism which will be fine tuned time to time based on the current requirements. Apart from the regular courses students are motivated to involve in co-curricular activities which will help them to enhance their practical knowledge

Curriculum Development

As the Institute is affiliated to Anna University, Chennai we are following the curriculum and regulations provided by the University. Beyond the recommended curriculum the institute involved in organizing value added co-curricular activities like Guest Lectures, Seminars, Workshops, Symposiums, Conferences, etc for the overall skill development of the students to make them employable

Research and Development

The RD cell of the institute monitors the research activities carried out in the institute. RD cell organizes meeting with the department Heads to enhance the research activities in the Institute. RD cell monitors call for project proposals from various funding agencies and inform to the departments.

Also the cell provides support to young faculties to identify thrust research areas and motivate them to network with other research institutes

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

E-governance area	Details
Planning and Development	00
Administration	The administrative wing has a well-equipped data management system to record students data.
Finance and Accounts	00
Student Admission and Support	Student admission is done in 2 modes. Management and Government quota seats are filled by the management and government respectively. Government quota seats were filled by online based single window counselling
Examination	Students internal marks and attendance will be entered in centralized system in the affiliating university web portal. internal marks and hall tickets for final semester exams will be automatically generated based on the data entered in the university webportal

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
Nil	00	00	00	Nil
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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2018	Teaching Methodologies	Computer operating softskills	12/06/2018	13/06/2018	16	6
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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
Engg. Mechanics	1	19/01/2019	25/01/2019	6
Gas Dynamics and Jet Propulsion	2	04/01/2019	10/01/2019	6
Heat and Mass Transfer	1	10/12/2018	16/12/2018	6
Finite Element Analysis	1	12/12/2018	18/12/2018	6
FDP	2	26/11/2018	07/12/2018	14
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
221	221	62	62

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Free transport and Working lunch, soft loan to staffs having more than 5 years instation experience	PF, Free transport and Working lunch, soft loan to staffs having more than 5 years instation experience	Group Insurance, Free Medical facility, Assistance for Educational Loans, Academic Scholarships for best performers

6.4 – Financial Management and Resource Mobilization

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

The accountant is a regular full-time employee of the institute who records the financial activities. Accountant coordinates with the external auditors.
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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
ISTE	25000	International Conference
No file uploaded.		

6.4.3 – Total corpus fund generated

00

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	Staff from the sister concerns of Arunai Engineering College	Yes	Internal Auditors - Intra Department
Administrative	Yes	Staff from the sister concerns of Arunai Engineering College	Yes	Internal Auditors - Intra Department

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

The institute is not having a functional parents-teacher association. However, the institute is collecting advice from parents through various modes and utilizes them for the development of the institution. Parents feedbacks were collected

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

The support staffs will be deputed to various activities when and where possible

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

1. Implementation of Faculty appraisal system 2. Implementation of outcome-based education 3. Implementation of Research forum

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	No
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
2018	Awareness training and internal auditor training for ISO9001:2015 standards	02/08/2018	02/08/2018	04/08/2018	31
2019	Awareness program on AQAR and IIQA	05/04/2019	05/04/2019	05/04/2019	24
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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
Women Empowerment	08/03/2019	08/03/2019	102	84

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
00

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	2
Provision for lift	Yes	2
Ramp/Rails	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	1	1	06/08/2018	7	NSS Camp	Local Issues	48
No file uploaded.							

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
No Data Entered/Not Applicable !!!		

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
No Data Entered/Not Applicable !!!			
No file uploaded.			

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

Inorder maintain the green campus Department of Civil Engineering constructed benches out of waste pet bottles Tree plantation drive to improve the greenery inside the campus To Minimize the water usage in toilets and mess halls
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7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

<ul style="list-style-type: none"> Dale Carnegie teaching methodology - Every concepts have been explained through real time example or from the day to day activities. It is also called that known to unknown concept. That is we have been explaining the normal world
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activities by this, we are relating this activity with the technical concept. • Special coaching for slow learning • Remedial classes for those who fail in CIA tests • Faculty is encouraged to use Power Point Presentations and OHP apart from blackboards for teaching and better understanding for students. • NPTEL Videos delivered by the eminent faculties from the top ranked institutes of the country such as IIT and IISC are played to the 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.arunai.org/NAAC/>

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

Arunai Engineering College is constantly involved in the improvement of society. Being situated in the rural part, the institute always involved in societal development activities. In spite of reducing placements for Engineering graduates, the institute provides better placement for the rural students. Nearly 50 companies visited the campus for placement drive. Apart from this researchers, professors and other dignitaries were invited to the campus to speak with the students by which the technical acumen is instigated. AEC always feel proud in the overall improvement of the students.

Provide the weblink of the institution

<http://www.arunai.org/NAAC/>

8.Future Plans of Actions for Next Academic Year

Creation of Centre of Excellence for Cyber Electrical Systems. Involvement of International Electric utilities/ Power sectors for curriculum support in the evolving value added courses. Strengthening the Alumni interaction To improve the no of Successful graduates To develop communication skill to make employable students To develop interpersonal skill of the students. Transforming the students from the rural area to urban standards To introduce part time / sandwich, Advanced courses to cater for the industrial needs. Having Partnership with Industries. To ensure 100 utilization of lecture timings. To enhance collaborative research among the departments and to take initiative for inter-institutional collaboration To strengthen alumni participation. To conduct greater numbers of seminars and workshops of National and International importance at our campus. More number of students is to be involved in doing mini projects and developing working models. Students should get more proficiency in Chemical Engineering softwares.