Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**ARASU ENGINEERING COLLEGE**
Name of the head of the Institution	**T.Balamurugan**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**0435-2777777**
Mobile no.	**9443681418**
Registered Email	**principal@aec.org.in**
Alternate Email	**arasuengg@gmail.com**
Address	**Chennai Main Road**
City/Town	**Kumbakonam**
State/UT	**Tamil Nadu**
Pincode	**612501**

2. Institutional Status

Affiliated / Constituent	**Affiliated**
Type of Institution	**Co-education**
Location	**Rural**
Financial Status	**Self financed**
Name of the IQAC co-ordinator/Director	**Dr. Kalaimani Shanmugham**
Phone no/Alternate Phone no.	**04352777799**
Mobile no.	**9443421673**
Registered Email	**viceprincipal@aec.org.in**
Alternate Email	**ksyazh@gmail.com**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://aec.org.in/IQAC/

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	http://aec.org.in/#

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**B**	**2.44**	**2018**	**16-Aug-2018**	**16-Aug-2023**

6. Date of Establishment of IQAC	**03-Jun-2013**

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 Writing R&D Proposals and research articles	**15-Jul-2019** **1**	**90**
One Day Workshop On Funds you can Fetch and	**17-Aug-2019** **1**	**46**

Intellectual Property Rights		
Seminar on how to generate e-Content	23-Sep-2019 1	120
Inauguration of IIPE Students' Chapter	15-Feb-2020 1	120
Webinar on Research Thrust Areas in Composities	20-May-2020 1	1542
Webinar on Guidelines for Writing Research paper	22-May-2020 1	4444
Webinar on ICT Enabled e-Content Generation	22-May-2020 1	116
Webinar on Mastering the Art of Scientific Publications	23-May-2020 1	120
Webinar on Introduction to Design of Experiments	27-May-2020 1	3281
Webinar on Covid-19 Analysis using Python and Tableau	29-May-2020 1	524
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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
Institution	PMKVY	Government of India	2019 365	1678500
Institution	PMYUVA	Government of India	2019 365	56666
Institution	UBA	Government of India	2019 365	50000
Institution	Entrepreneur Development Cell	AICTE	2019 30	122477
Institution	Entrepreneur Development Cell	DST-NIMAT	2019 365	20000
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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 :	**4**
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)

i) IQAC initiated more focus on R D projects and proposal submission. Organized workshops on "Guidelines for writing Research paper" ,"Mastering the art of Scientific publications", "Funds you can fetch and Intellectual property Rights " and "Research Trust areas in Composites". ii) IQAC has insisted to develop subject related econtents and online course content. Organized programmes on "ICTenabled econtent generation" and interactive presentation through webinars. It gave an idea of about the importance of usage of technology for better teaching learning experiences. iii) The IQAC submitted data for the National Institutional Ranking Framework as required by „Ministry of Human Resource Development Department of Higher Education New Delhi? iv) IQAC strengthened the "Effective Mentoring System" that facilitates an interface between students and Staff. It helped the college to identify the concerns of students on various facilities and they were suitably addressed by the officials for the sake of enhancing quality of teaching and learning. v) IQAC has completed student evaluation of staff, self evaluation of staff and peer evaluation of newly recruited staff and consolidated the report for further decisions from the management through which the quality of teaching is sustained and enhanced.

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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
To conduct the three weekly tests and two assessment tests and one model exam per subject and to provide Course content with practicing questions to improve the university results	**There is substantial improvement in the results when compared to the previous results**
To encourage the faculty members to undergo Ph. D. programme.	**Eight Faculty members registered Ph.D programme in leading universities.**
To conduct more number of seminars, workshops and conferences for the quality improvement.	**Totally 116 programmes have been conducted in the academic year**
To impart training on employability	**Nearly 15% of students involved in self**

skills and entrepreneurship and conduct activities to improve the social responsibilities among the students	employment and 50% of students participated in the social service activities
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14. Whether AQAR was placed before statutory body ?	**Yes**

Name of Statutory Body	Meeting Date
Governing Council Meeting	**06-Jul-2020**

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	**Yes**
Date of Visit	**21-Dec-2018**
16. Whether institutional data submitted to AISHE:	**Yes**
Year of Submission	**2020**
Date of Submission	**30-Jan-2020**
17. Does the Institution have Management Information System ?	**Yes**
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	**Management Information System is implemented using INSPRO PLUS Software by PALPAP. The modules currently operated in the software are student academic manager, student attendance management, staff academic management, mark analysis, examination cell management and customized report generation.**

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

The Institution is equipped with extensive action plan for the implementation of the Curriculum. Various Committees have been formed for effective implementation and monitoring of the Curriculum. The committees are such as Institution Development Committee, Budget Committee, Purchase Committee, Library Committee, Academic Calendar Committee, Academic Committee, and Periodical Tests & Performance Analysis Committee. Meetings are conducted by the Principal periodically with all Heads of the Department to evolve various

strategies for effective implementation of the Curriculum. Academic Calendar is prepared with details of the activities of the Academic Year. Schedule of Department activities is prepared which includes Industrial Visits, Guest Lectures and Department newsletter. Subject allotment is done based on proficiency matrix, experience and performance of the faculty in previous years. Time table is framed with provision for value added courses, placement and training, tutorial and class test. Lesson Plan, Question Bank, Lab Manuals are prepared well in advance. The attendance and performance of the students are monitored by the Class advisors, Student Counselors and HoDs. The student's performance and attendance is communicated to the parents regularly. Slow learners and for students having average learning capability, remedial classes are conducted after the college working hours. NPTEL-E-learning through online Web and Video courses in Engineering, Science and humanities streams are used by the faculty members. E-learning materials have been developed by our faculties for all the subjects in the curriculum to provide 24x7 learning Environment to our students through Arasu Virtual Learning Centre for Technology, Engineering and Management (AVLC-TEAM) which operates in MOODLE platform. Allocation of subject, preparation of lesson plan and lab manuals is done at the beginning of the semester. Augmented topics are included in the lesson plan and delivered. Monitoring of course delivery and syllabus completion is done through class committee meetings, feedbacks and regular academic audits. A class advisor is appointed to monitor the conduct of classes and student performance. Systematic examination process, standard question papers, proper and prompt evaluation and periodical dispatch of reports to parents. If the same subject is handled by more than two faculty members for various sections of students, a coordinator is appointed to monitor the portion completion and the performance of all the faculty members handling the subject. Guest lectures, seminars, industrial visits and training programs are conducted to supplement the curricular inputs. Laboratory as per the requirements of the curriculum is ensured. Effective delivery in analytical subjects is ensured by conducting tutorial classes as per timetable.

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
Entrepreneur ship Awareness programme		12/02/2020	3	Entrepreneur ship	Entrepreneur ship Skill
CCNA Routing and switching : connecting Networks		01/07/2019	457	Employabilit y	Skill Development
CCNA Routing and switching : Scaling Networks		01/07/2019	457	Employabilit y	Skill Development
CCNA Routing and switching : Introduction to Networks		01/07/2019	457	Employabilit y	Skill Development
CCNA Routing		01/07/2019	457	Employabilit	Skill

and switching : Routing and Switching Essentials			y	Development
PMKVY		02/11/2019	730	Entrepreneur ship	Entrepreneur ship skill
-	Human Excellences and safety Management	28/08/2019	180	Employabilit y	Managerial Skill
STADD Pro		18/12/2019	180	Employabilit y	Skill Development
Creo		27/11/2019	180	Employabilit y	Skill Development

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
ME	Thermal Engineering	29/04/2019
BE	Biomedical Engineering	29/04/2019
BE	Agriculture Engineering	29/04/2019
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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
BE	Automobile Engineering	02/07/2019
BE	Civil Engineering	02/07/2019
BE	Computer Science and Engineering	02/07/2019
BE	Electrical and Communication Engineering	02/07/2019
BE	Electrical and Electronics Engineering	02/07/2019
BE	Mechanical Engineering	02/07/2019
BE	Agriculture Engineering	14/08/2019
BE	Biomedical Engineering	14/08/2019
ME	Computer Science and Engineering	02/07/2019
ME	VLSI Design	02/07/2019
ME	Power Electronics and Drives	02/07/2019
ME	Thermal Engineering	02/07/2019

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

	Certificate	Diploma Course

Number of Students	423	127

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
STADD Pro	18/12/2019	32
Creo	27/11/2019	15
Embedded Laboratory	10/01/2020	33
CCNA	08/07/2019	45
.Net Technology	10/01/2020	28
PLC/SCADA	10/01/2020	16
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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
BE	Automobile Engineering	5
BE	Civil Engineering	40
BE	Computer Science and Engineering	13
BE	Electronics and Communication Engineering	3
BE	Electrical and Electronics Engineering	16
BE	Mechanical Engineering	28
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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

Feed back is obtained from the stakeholders and it is analyzed for the growth of the institution. A structured feedback form is issued to the students and responses are collected from them. Certain parameters are laid to get the feedback from the students such as teaching learning process, content delivery, infrastructure, and understanding of the subject. The students record their response and their inputs are taken into account, analyzed and conclusions are arrived for the betterment of the students and institution. The same way feedback forms are distributed and collected from teachers, parents, employers and alumni. The responses are recorded and analyzed. The suggestions are taken into account and implemented for the development of the institution.

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
BE	Agriculture Engineering	60	68	56
BE	Automobile Engineering	60	13	11
BE	Biomedical Engineering	60	58	45
BE	Civil Engineering	60	20	13
BE	Computer Science and Engineering	120	80	70
BE	Electrical and Electronics Engineering	60	30	17
BE	Electronics and Communication Engineering	60	35	19
BE	Mechanical Engineering	120	114	69
ME	Computer Science and Engineering	18	6	4
ME	VLSI Design	18	5	1
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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
2019	1015	16	110	12	121

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	Numberof smart classrooms	E-resources and techniques used
121	95	5	5	5	14
		View File of ICT Tools and resources			

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

Students mentoring system is available in the institution. Faculties are assigned as mentors. Each faculty is responsible for 15 students. A separate record is maintained by the faculty for every student assigned to them. They will regularly monitor the progress of the student. Students' academic activities such as attendance, internal assessment results, industrial visits, conference, symposium, and other relevant activities are monitored and recorded. The performance of the students are analyzed and informed to the parents. The low learners are given counseling, and monitored continuously. The parents are called and discussed about the students' progress. Special coaching classes are conducted for the betterment of the slow learners.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1031	121	1:15

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
121	121	0	0	29

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. T. BALAMURUGAN	Principal	University Level Best NSS Unit Award
2019	Mr. G. B. SATHISHKUMAR	Assistant Professor	BEST GUIDE AWARD in TNSTC
2020	Mr. M. ANANDA KUMAR	Assistant Professor	Global records and Research Foundation
2020	Mr. R. VEERAVEL	Assistant Professor	Global records and Research Foundation
2020	Mr. A.ARUN	Assistant Professor	Global records and Research Foundation
2020	Mr. G. B. SATHISHKUMAR	Assistant Professor	Global records and Research Foundation
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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
BE	108	I/I	21/12/2019	29/01/2020
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The stakeholders are informed of the evaluation process. The stakeholders are aware of the class test and internal assessment tests schedule from the college calendar published during every academic year. The circulars conveying vital information from the university and department are circulated in classrooms and displayed in college notice board. Examination schedules are also displayed on the notice boards and available on the website of the affiliating university. The evaluation process is discussed thoroughly in the class committee meetings and department staff meetings. The changes brought by the university if any, are informed to the stakeholders. A question bank is formed from previous year university papers along with answer key and is given to the students. The slow learners are identified and special coaching classes are conducted. After completion of internal assessment tests, the progress reports are sent to their parents. The evaluated answer scripts are given to the students to make them aware of the mistakes committed by them. Comprehensive result analysis is performed at the end of each test / examination to monitor the student performance. The results are discussed in the class committee meetings to take corrective measures. The mechanism of the system is explained to the students by the advisors. The marks allotted for assignments, seminars and tests for the university internal evaluation are informed to the students through the advisors and the respective teachers. The pattern of question paper is also informed to the students. Model tests based on university pattern are also conducted.

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

Academic calendar is prepared well in advance before the commencement of the classes. All the academic activities are planned and executed as per the academic calendar plan. Internal assessment exams are also scheduled and conducted as per the schedule. Assessment exams are scheduled as per the periodical entry in the web portal of Anna University. Activities such as class committee meetings, industrial visits, seminars, conferences are scheduled and executed.

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://aec.org.in/category/academics/departments/cse/

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
104	BE	Computer Science and Engineering	60	49	81.67
102	BE	Automobile Engineering	13	9	69.2
103	BE	Civil Engineering	51	28	54.9
105	BE	Electrical and Electronics Engineering	32	22	68.75

106	BE	Electronics and Communication Engineering	39	32	82.05
114	BE	Mechanical Engineering	92	62	67.39
405	ME	Computer Science and Enigneering	4	4	100
415	ME	Power Electronics and Drives	4	4	100
419	ME	VLSI Design	2	2	100
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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://aec.org.in/IQAC/

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	365	MAS Solar Systems Pvt. Ltd, Coimbatore	1.2	1.2
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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
Workshop on Advanced Softwares	Civil	12/09/2019
Guest Lecture on Solid Waste Management	Civil	13/09/2019
Workshop on Concrete Mix Proportioning	Civil	08/01/2020
Guest Lecture on Design of Steel Structures	Civil	04/03/2020
Guest Lecture on Advanced technology on Repare and rehabilation of structure	Civil	13/03/2020
Webinar on STAAD Pro. (Level 1)	Civil	20/03/2020
Webinar on Structural Analysis using ANSYS	Civil	05/06/2020

(Mechanical APDL)		
Seminar on Non Destructive Testing and Industrial Skills	Mechanical	14/08/2019
Seminar on Overview of Thermal Powerplant	Mechanical	28/08/2019
Seminar on Lean Manufacturing	Mechanical	29/08/2019
Seminar on Advances in Manufacturing	Mechanical	15/02/2020
Seminar on Industry IOT	Mechanical	11/03/2020
Webinar on Research Thrust Areas in Composites	Mechanical	20/05/2020
Webinar on Introduction to Design of Experiments	Mechanical Engineering Research Committee	27/05/2020
Webinar on Additive Manufacturing on Bio implants	Mechanical	13/06/2020
One Day Workshop on Design Thinking for Next Industrial Revolution - Industry 4.0	Mechanical	22/06/2020
Seminar on Internet of things	ECE	03/07/2019
International Seminar on Latest trends in nano technology	ECE	07/09/2019
Seminar on Technologies that Worthwhile to Humankind	ECE	26/02/2020
Guest Lecture on Recent trends and techniques in Augmented Reality	CSE	17/08/2019
One Day National Technical Seminar on Ethical hacking	CSE	12/09/2019
National Conference on Recent trends and Technologies	CSE	12/03/2020
Webinar on ICT Enabled E-Content Generation	CSE IQAC	22/05/2020
Webinar on Covid-19 Analysis using Python and Tableau	CSE	29/05/2020
International Webinar on DevOps Automation	CSE	05/06/2020
Webinar on Introduction to Block Chain Technology	CSE	06/06/2020

Guest Lecture on Recent Issues in Power System	EEE	04/09/2019
Hands on Training on Renewable Energy Systems Laboratory	EEE	20/12/2019
Workshop on Advanced Technologies in Power and Robotics Engineering	EEE	20/02/2020
International Conference on Advanced Technologies in Power and Robotics Engineering	EEE	21/02/2020
Webinar on Regulated and Deregulated Energy Market	EEE	18/05/2020
Webinar on MATLAB Software for Power Electronics	EEE	30/05/2020
One Day Workshop on Funds you can Fetch and Intellectual Property Rights	Research Committee	17/08/2019
Webinar on Guidelines for Writing a Research Paper	Research Committee	22/05/2020

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
Vehicle interior cleaning and sanitizing robot	Mr. G. B. Sathishkumar	TNSTC	26/01/2020	Best Guide 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
CIVIL Department	Terzaghi Incubation Centre	Building Technocrats Association, Tamilnadu Puducherry and Self finance	Material Testing and Providing eco-friendly products	Testing Quality assessment of Building materials and Manufacturing of construction blocks using eco-friendly materials	07/08/2019
AUTOMOBILE Department	Automobile Innovation Incubation Centre	Arasu Autos, Kumbakonam	Developing L – Category Electric vehicle	Control Emission Developing Electric vehicle	29/01/2020

EEE Department	Faraday Incubation Centre	Industech Automations, Trichy and Self financing	Design Fabrication and Providing self defense system	Design and Fabrication of Life saving smart product for under ground drainage cleaning system, Fabrication of Women safety and self defense system	20/01/2020
Mechanical Department	Mechzeal Incubation center	Self financing	Project Innovation	Cleaning and sanitizing Robot, Water Generator from Air and Oil film water seperator	03/07/2019
CSE Department	Dr.KALAMS INNOVATION CENTRE	Arasu Engineering College	Innovations in Product Development	Software Development, IOT System Fabrication, Software and System Testing	17/08/2019
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
6	0	0

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

Name of the Department	Number of PhD's Awarded
-	0

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	PHYSICS	2	2.19
International	MECHANICAL	5	0.7
International	CSE	1	3.02
International	ECE	2	3.36
International	Chemistry	1	1.92
International	Mathematics	2	6.2
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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
ECE	9
EEE	13
CSE	40
MECH	2
CIVIL	4
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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
A Study On g-Circulant Polynomial Matrices	S. Sundara selvan	The International journal of analytical and experimental modal analysis	2019	0	RASU ENGINEERING COLLEGE -KUMBAKONAM	0
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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
Study on the synthesis, structural, spectroscopic, thermal, DFT and NLO property of ethyl 4-hydroxy-2-Oxo-6-(Thiophen-3-yl)-4-(Trifluoromethyl) hexahydropyrimidine-5	S.SATHIYA	Journal of Molecular Structure-Elseveir	2019	2	2	Arasu Engineering College
Surface modification of AZ61	S. Sundara selvan	International Journal of	2019	2	4	Arasu Engineering College

magnesium alloy with nano-Al2O3 using laser cladding technique: optimisation of wear properties through hybrid GRA-PCA		Rapid Manufacturing				
Surface modification of AZ61 magnesium alloy with nano TiO2/Al2O3 using laser cladding technique	S. Sundaraselvan	Materials Today: Proceedings	2019	2	1	Arasu Engineering College
Reinforcement of AISI 304 Stainless-Steel Wire Mesh in A NFHC With Unsaturated Polyester Resin For Mechanical Behaviour	G. B Sathishkumar	International Journal on Recent Researches in Science	2019	1	0	Arasu Engineering College
Design and Remodeling 60cc to 80cc Mini Race Bike with Light weight and Low-cost fiber Composites	G. B Sathishkumar	Omega Global Journal of Engineering and Technology	2019	1	0	Arasu Engineering College
Design and Modify of Mill Discharge Valve Using in Thermal Power Plant	G. B Sathishkumar	Omega Global Journal of Engineering and Technology	2019	1	0	Arasu Engineering College

Boiler						
Rhodium(III) complexes derived from complexation of metal with azomethine linkage of chitosan biopolymer Schiff base ligand: Spectral, thermal, morphological and electrochemical studies	Dr. S. CHANDRASEKARAN	Carbohydrate Research	2020	1	1	Arasu Engineering College

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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	32	46	5	24
Presented papers	12	21	0	0
Resource persons	3	3	0	0

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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
Kabasura kudineer distribution	Governemnt Hospital, Kumbakonam	5	65

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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
NSS Activities	University level best NSS unit award	Anna university	100
NSS Activities	University level best volunteer award	Anna university	2

National Integration, Save Environment ang Yoga Awareness	World Record	Global Records Research Foundation	3500

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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 activites	Number of students participated in such activites
Swachh Bharat	NSS	Government School Cleaning in adapted village	10	100
Aids Awareness	NSS and National Health Service, India	AIDS Awareness Programme	5	100
Swachh Bharat	NSS	Cauvery River Cleaning	7	30
Swachh Bharat	NSS	Awareness Programme on Plastic Free India	5	100
Swatch Hata Packwada	NSS	Tree Plantation and eradication of plastic	15	100
Swachh Bharat	NSS	Corona Awareness Programme	3	75
Swachh Bharat	NSS	Dengu Awareness and Nilavembu Water Distribution	5	100
Swachh Bharat	NSS	Do and Don'ts Post Covid-19 Lockdown	2	153
Unnat Bharat Abiyan	UBA and NSS	Orientation on House hold Survey	3	60
Unnat Bharat Abiyan	UBA and NSS	Digital Litracy training for school students	8	53

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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
Software Testing and Quality Analysis	7	Edsix Brain Pvt. Ltd., Chennai	180

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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
Internship	Construction of Grade Seperator	State Highways Department, Chennai	03/12/2019	13/12/2019	5
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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
C-Cube	16/11/2019	Training and Placement	40
Times Internet Limited	06/12/2019	Training and Placement	20
Industech Automations (ITA), Trichy	18/06/2019	Value added course Placement	30
Bhabu Electricals, Kumbakonam	03/02/2020	Value added course Placement	30
Saravana Insulators, Cuddalore	20/04/2020	Value added course Placement	33
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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	50

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with Wi-Fi OR LAN	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added

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

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
NIRMALS	Fully	1.0	2002

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	25689	6578813	1005	292093	26694	6870906
Reference Books	7133	2139900	73	21900	7206	2161800
e-Books	56	29184	0	0	56	29184
Journals	128	360000	0	0	128	360000
e-Journals	40000	72216	0	0	40000	72216
Digital Database	0	0	0	0	0	0
CD & Video	1600	320000	0	0	1600	320000
Library Automation	1	500000	0	0	1	500000
Weeding (hard & soft)	0	0	0	0	0	0
Others(specify)	0	0	0	0	0	0
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Dr. Kalaimani Shanmugam	Computer Networks-Introduction to Computer Communication	Arasu LMS	05/07/2020
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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	500	240	60	40	120	10	30	45	36
Added	0	0	0	0	0	0	0	0	0
Total	500	240	60	40	120	10	30	45	36

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

45 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
Smart Room with ICT Facility	https://www.youtube.com/watch?v=ojpaz0HYzi0&ab_channel=ArasuEngineeringcollege

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 incurredon maintenance of physical facilites
101	65.03	177	146.42

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)

A separate maintenance department is functioning in the college with an Engineer as the head. A maintenance supervisor and maintenance assistants are available to look after. Civil works like maintenance of building floors, walls and other furniture works are carried out time to time and log book register is maintained. Electrical maintenance work is carried out in all the departments as and when required. Calibration of instruments and equipments are carried out regularly depending upon the requirement by concerned department. They seek the assistance of external agencies in this respect, in addition to involving the lab assistants for this work. Our campus is fully furnished and equipped with Wi-Fi. Smart Class rooms are available for all the departments equipped with Wi-Fi projectors and screen. Our library has more than 27,000 books, updated with a digital storage server and E-learning materials. We have centralized Air conditioned Seminar hall. We provide flexible cost effective network of transport. Presently, the college buses are operated in different routes. We have separate hostels for Boys and Girls in the campus with all facilities. We are providing free 24 hour internet facility in hostel. Fully furnished dining hall with modern kitchen having seating capacity of 2000 students newly constructed is providing hygiene food to staff and students. Books required as per AICTE norms is sought from the departments every year and purchased as per the norms of the Institute. Journals requirements suggested by the Heads of Departments are also discussed in the meeting and recommended accordingly. The updated version of e-journals is printed according to HoD's recommendations. A spacious playground is available in our campus in which daily practice is given to the students in outdoor games such as Ball Badminton, Tennis, Throw Ball,

Cricket, Kabaddi, Hockey, Hand Ball, Foot ball, Volley Ball, Athletic events, etc. We train the students in indoor games such as Table Tennis, Badminton, Chess, Carom, Weight lifting, Power lifting etc. Our college has separate modern Multi Gyms for boy and girl students and staff usage.

http://www.aec.org.in

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Dhanalakshmi Thirunavukarasu Educational Trust /Merit student Scholarship	34	672500
Financial Support from Other Sources			
a) National	Government Scholarship for SC ,ST, MBC and FG	1070	14238975
b)International	NIL	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
Personal counselling and Mentoring	10/07/2019	30	AEC
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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 passedin the comp. exam	Number of studentsp placed
2019	Career Guidance "Pre-Employment Orientation Seminar"areer Guidance " Pre-Employment Orientation Seminar"	0	243	0	1
2019	Hire me india pvt	145	0	24	12

	ltd				
2020	Webinar on scope of automobile engineering 2020 - 2050	0	30	0	4
2019	Apptitude training by payoda Technologies	82	0	51	0
2019	Funds you can Fetch and Intellectual Property Rights	48	0	0	0
2019	M/S. CERTIFYTN in associate with Microsoft office Tools	213	0	0	213
2019	Carrier guidance programme	0	500	0	0
2019	Carrier guidance programme and Motivation P rogramme-AEC/NSS	0	500	0	0
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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
0	0	0

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
Anna University - CUIC-HCL-ONLINE EXAM	18	1	Erwin, chennai	48	13
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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	Depratment graduated from	Name of institution joined	Name of programme admitted to
2020	2	B.E	ECE	ARASU ENGINEERING COLLEGE, Kumbakonam	M.E. VLSI Design
2020	3	B.E	CSE	ARASU ENGINEERING COLLEGE, Kumbakonam	M.E CSE
2020	2	B.E	EEE	ARASU ENGINEERING COLLEGE, Kumbakonam	M.E. Power Electronics and Drives
2020	1	B.E	MECHANICAL	ARASU ENGINEERING COLLEGE, Kumbakonam	M.E. Power Electronics and Drives
2020	1	B.E	MECHANICAL	Douglas college, new westminister, Vancouver, British Colombia, canada.	PBD supply chain management
2020	1	B.E	Automobile Engineering	ARASU ENGINEERING COLLEGE, Kumbakonam	M.B.A
2020	1	B.E	EEE	SASTRA UNIVERSITY	M.Tech. Power System
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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	7
[View File]()	

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

Activity	Level	Number of Participants
Silambam	institution	12
Parambariya nadana kalai	institution	10
International Yoga Day	institution	100
Tamil kalai ilakiya thiruvila	institution	150
Marathan	institution	600
Sports day	institution	410

International Women's Day	institution	250

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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
2019	First prize in Anna University Sports Meet (Tripple jump)	National	1	0	B17EC033	Puvazaki . S
2019	First prize in Anna University Sports Meet (High jump)	National	1	0	B17EC006	Anusuya. A
2019	Third prize in Anna University Sports Meet (Hammer throw)	National	1	0	B17EC033	Puvazaki . S
2019	Runner in Anna University Sports Meet (Basket ball)	National	1	0	B17CS038	Sheela. L
2019	Runner in Anna University Sports Meet (Badm inton)	National	1	0	B16CE013	Jeevitha lakshmi. G
2019	Third prize in Anna University Sports Meet (Shot put)	National	1	0	B16EC0038	Sushwa. A
2019	Third prize in	National	1	0	B19AE032	Punitha.k

	Anna University Sports Meet (Tripple jump)						

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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)

Various committees are formed for the effective functioning of the academic activities. All the departments have a department student society, student chapters of various professional associations and various social clubs. The Head of the Department, staff and students of the respective departments in consultation with the Principal choose the office bearers. The College has various academic and administrative bodies that have student representatives. This representation helps them in their overall development. These bodies create more avenues for students to develop technical skill, updating knowledge, personality development and service to society through the following Societies/Associations. There are staff advisers to guide students in the smooth and efficient conduct of these activities. The various committees where the students are members such as Class Committee, Department Associations, Cultural Committee, Symposium/Conference Committee, Students (chapter/forum) Associations such as IEEE, ISTE, CSI, IE, SAI etc, Grievance Cell, Anti-ragging Committee, Sports Committee, NSS, YRC, RRC, Women Empowerment Cell, Grievances and Redressal committee, Tamil Perayam and GEO club.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Year of Establishment 2008, Registration Number 49/2008, Date of Registration 31.10.2008, Name of the President Dr. T. Balamurugan, Name of the Vice President Dr. Kalaimani Shanmugham, Name of the Secretary Mr. M. Thiyagarajan, Name of the Treasurer Mr. R. Malarvannan, Date of the Last Meeting 26.12.2019.

5.4.2 – No. of enrolled Alumni:

<div align="center">408</div>

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

<div align="center">40800</div>

5.4.4 – Meetings/activities organized by Alumni Association :

1. Guest Lecture on Augmented Reality was delivered by Ms.R.Jayalakshmi (CSE, 2012 passed out), IT Analyst / Lead Developer/ Team Leader, TCS Chennai on 17.08.2019. 2. Alumni Meet regarding placement opportunities, suggestions for improvement and development activities of the college was conducted on 26.12.2019. 3. Mr. Muthukrishan (ECE, 2018 passed out) assisted the students to develop the project Design and Fabrication of Robot for Cleaning and Sanitizing the interior of the public transport vehicles. 4. One day guest lecture on Recent trends in VLSI technology was given by Mr. G. Naveen Balaji(ECE, 2011 passed out) on 24.02.2020. 5. Mr. R.Vijay (Mech., 2014 passed out) gave presentation on Thermal Engineering-II on 10.06.2020. 6. Mr. M. Madhan Kumar (EEE, 2010 passed out) gave one day hands on training on MATLAB Software on 30.05.2020.

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 College promotes a culture of participative management. The college has practice of listening to voices from the students and faculty members through proper channel. There will be class committee meeting for all classes headed by the class committee chair person who convenes the meeting as scheduled. It is the platform for the students to notify their needs in academic and non academic parts. Minutes of class committee meeting will be sent to the Head of the Institution. Department meeting will be conducted by the HODs in order to address the grievances and in turn will be passed to the top management.

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
Teaching and Learning	The modern teaching aids like OHP, LCD projectors, Internet enabled computer systems are usually employed. NPTEL lectures and e-journals provide effective learning experience. Our Institute also provides facilities such as Language laboratory, AVLC-24 x 7 learning, Digital class rooms with Wi-Fi facilities. IIT Bombay Initiatives such as Virtual Class Rooms, Virtual Labs, Spoken tutorial, A-view, FOSSEE (free and open source for education), OSCAR, 3D Animation, e-learning are encouraged among the students by using various web based learning resources. Flipped and Blended learning environments are created to enhance the teaching learning process. The e-contents developed by the faculty members are published in Arasu LMS for the students' access. Google classroom has been effectively utilized to conduct lesson delivery.
Curriculum Development	Our college is affiliated to Anna University, Chennai. Being an affiliated institution, we follow the curricula which are designed by Anna University. The program educational objectives, Program specific objectives and program outcomes are derived from the requirements of the Washington Accord for the Engineering and Technology worldwide. We follow Choice Based Credit System (CBCS) and there is vertical and horizontal mobility in the

		selection of electives based on the students choice. The curriculum incorporates Lifelong learning skills as one of the graduate attributes by offering many courses with credits such as Engineering Ethics and Human Values.
	Examination and Evaluation	The internal assessment tests are conducted by the centralized examination cell which ensures transparency. Three internal assessment tests are conducted during the semester to evaluate the performance of the students. Internal evaluation is made by the concerned subject teacher. The internal marks are uploaded in the Anna university website periodically within the time frame. The students can check the marks awarded for them from the university website also. The Institution adheres to the norms of the affiliating university in awarding the internal assessment marks. The end semester examination is conducted as per the norms of the University. Google Forms have been effectively utilized to conduct MCQ based assessment. Remedial coaching classes and follow-up actions are carried out to improve the performance of slow learners.
	Research and Development	The Institute focuses deeply towards Research and allied activities through equipped research center / lab and high speed internet connectivity. Arrangements are being made for organizing different technical seminars, conferences, workshops and training sessions to enhance the knowledge of the students regarding various recent technologies and emerging fields of research. Financial support and sabbatical leave are provided by the institute to carry out collaborative research work. Project based learning environment is created to encourage the students to expose their ideas and talents. faculty members are encouraged to pursue their higher studies and to do research projects sponsored by various funding agencies.
	Library, ICT and Physical Infrastructure / Instrumentation	College library is equipped with OPAC (Online Public Access Catalog) software. The library has online e-journals subscription for both staff and the students. Electronic Resource Management package for e- journals is available. Library automation is done

	by EASY LIB software. The library has sufficient number of systems for digital library and the access is made easy for the students. Printers are available for general usage. A digital library is available with high speed Internet connectivity. We have Institutional Repository through NPTEL and Arasu LMS. Participation in Resource sharing networks/consortia is done by DELNET. Smart classrooms equipped with high-end LCD projectors and video recording facilities.
Human Resource Management	College has established well defined administrative section and academic sections to look after the employees and students respectively. The college maintains HR policy manual which gives complete details about the faculty appointments, qualification and service requirements. College has set up a grievance redressal committee which helps to address the complaints raised by the employees. The college has staff welfare committee, women harassment prevention committee and committee to take care of weaker sections of the society. The internal complaints committee takes care of all students of the college for solving their day to day issues. College has appointed a medical officer to provide medical attention to faculty and students whenever required. All faculty and students are insured under group insurance policies. Performance evaluation of the faculty members are carried out periodically.
Industry Interaction / Collaboration	College has established industry interaction cells which help in promoting activity, training, projects and collaborative research culture between industries and institution. Leading industries established their products for demonstration purpose in our college campus. Students are encouraged to undergo industrial training and internship in various industries located in and around Tamil Nadu. Industries are willingly participating in collaborative research programs under industry sponsored scheme, sharing their equipments and other resources with the faculty and students of the college. The faculty members are regularly taking orientation classes for industry people

	on latest technologies.
Admission of Students	**For all UG programmes, the college admits students partially through Anna University counseling under government quota and management quota through Consortium counseling. For all PG programmes, admission takes place based on the criteria of entrance examination such as TANCET and admission through management quota.**

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

E-governace area	Details
Planning and Development	**Insproplus software is used for Management Information System which includes modules that helps in planning academic activities such as timetable, lesson plan, attendance, mark entry and feedback by students. This MIS helps in distributing students in batches through academic manager and faculty subject allocation.**
Administration	**Insproplus software is used for administration which helps in keeping records of all students, staff and other employees.**
Finance and Accounts	**Tally software is used for maintaining finance and accounts. Functions of the finance and accounts are precisely defined and are strictly followed with proper accounting practices and making record of each financial transaction using e-governance mechanisms.**
Student Admission and Support	**Insproplus software is used for student admission and support. The complete databases of the admitted students are maintained by this software and the category wise reports can be generated periodically. It also maintains the record of students' attendance and other personal details.**
Examination	**Insproplus software is used to automate the examination process related to internal examinations. It includes the entry of assessment marks and consolidated arrival of internal marks. Periodically students' progress report can be generated through the software. EFFRDUSER software is used to automate the university examination process. It includes the preparation of hall plan, duty allocation, students' attendance statement and other accounts pertaining to examinations.**

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
2019	Mr.R.VEERAVEL	National Conference on Innovative trends and Advances in Civil Engineering	NA	1000
View File				

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)
2020	Data Science with python	Data Science with python	06/02/2020	08/02/2020	21	3
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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
Materials for Thermal and Renewable Energy Research	1	20/05/2020	24/05/2020	5
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
9	9	0	0

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Group Insurance Policy	Group Insurance Policy	Merit Scholarship

6.4 – Financial Management and Resource Mobilization

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

Once in a year, statutory audit is conducted by the professionals. Audit is done by Government recognized Chartered Accountant. Internal audit is performed twice in a year. The institution has a pre-defined mechanism for internal and external audits. Internal audit is conducted by the internal auditor of the Institute. External audit is conducted by the chartered accountant. At the end of every academic year, inventory of every department is verified by the team of faculty members. The qualified remarks if any, given by the members are taken into consideration for future course of actions.

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
Sri Thirunavukkarasu Dhanalakshmi Educational and Charitable Trust	3000	Department Students Association Inaugural Function Expenditure (Auto)
View File		

6.4.3 – Total corpus fund generated

125000

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	Dr. N. Azhagumoorthy	Yes	Head of the Departments
Administrative	Yes	Dr. R. Sudhesh	Yes	Office Superintendent

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

1. Conducting Parent - Teacher meet at regular interval 2. Collecting feedback and suggestions through feedback mechanism 3. Involving parents in various institutional development committees

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

Staff Development Training Programme, Capacity Building Programme, Orientation Programme, Soft Skills Training programme and Women Development Programme.

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

1. Submitting application for NBA Accreditation for the remaining eligible programs 2. Submitting project proposals to various funding agencies 3. Strengthening the R D activities.

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Workshop on Writing RD Proposals and research articles	15/07/2019	15/07/2019	15/07/2019	90
2019	One Day Workshop On Funds you can Fetch and Intellectual Property Rights	17/08/2019	17/08/2019	17/08/2019	47
2019	Seminar on how to generate e-Content	23/09/2019	23/09/2019	23/09/2019	120
2020	Webinar on Research Thrust Areas in Composites	20/05/2020	20/05/2020	20/05/2020	1542
2020	Webinar on ICT Enabled e-Content Generation	22/05/2020	22/05/2020	22/05/2020	116
2020	Webinar on Covid-19 Analysis using Python and Tableau	29/05/2020	29/05/2020	29/05/2020	524
2019	Effective Mentoring System	02/07/2019	02/07/2019	30/06/2020	979

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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
National Level Competition on Culture and Heritage of Arts	27/07/2019	27/07/2019	500	700

International Yoga day celebration	21/06/2019	21/06/2019	175	230
Fire and Safety Programme	17/10/2019	17/10/2019	30	70
Human Values	08/01/2020	08/01/2020	40	60
Entrepreneurship awareness camp	12/02/2020	14/02/2020	22	66
Womens Day Special Debate	08/03/2020	08/03/2020	500	0
Corona Awareness Programme	12/03/2020	12/03/2020	50	50

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
10 percent of total energy requirement is met by solar power panel.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	0
Provision for lift	Yes	0
Ramp/Rails	Yes	0
Braille Software/facilities	Yes	0
Rest Rooms	Yes	0
Scribes for examination	Yes	0
Special skill development for differently abled students	Yes	0

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
2019	1	3	09/12/2019	30	Unnat Bharat Abhiyan	Handcraft training to village people, Digital literacy training to school students	70

						and medical camp.	

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

Title	Date of publication	Follow up(max 100 words)
AEC Handbook	03/07/2019	Students and staff must adhere to the instructions given in the handbook. Institution vision, mission, program educational objectives, and rules and regulations of the college and dress code for the student and faculty are provided to the stakeholders.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
International Yoga Day Celebration	21/06/2019	21/06/2019	100

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

Plantation of trees, Restrictions for plastic usage, Reduced the usage of paper and electricity, Renewable Energy, Go Rooftop Solar, Reduce the Use of Harmful Chemicals and Waste Water Generation

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice 1: Title of the Practice: Efficient implementation of curriculum for fostering effective knowledge transfer. Goals • To ensure that courses offered to students are allotted to competent faculty members who have adequate expertise and experience to teach the course. • To ensure that the faculty member, well ahead of the beginning of the semester, prepare a set of course objectives and outcomes, adequate study material, presentation material, videos, software tools, lesson plan, question bank and get approved by HOD/Principal. • To monitor course delivery continuously during the progress of the semester based on the feedback/input given by the stake holders. • To put a system in place for measuring the attainment of the intended course outcomes quantitatively for each course. The Context In any higher educational institution, knowledge transfer is one of the most important areas to be focused. In this context, establishing a robust system to scientifically define the outcomes that are to be achieved, developing processes to transfer the knowledge and measuring the attainment of the outcomes quantitatively are followed periodically. Appropriate steps are taken for continuous improvement which is very essential. The Practice In the beginning of the every semester, it is ensured that teachers of all the courses offered are well equipped to handle the courses assigned to them. As the semester progresses, courses are delivered as per the lesson plan prepared. Periodically head of the department reviews the progress of the course delivery and ensure that the course delivery is in line with the lesson plan. In case of any deviation, suitable measures are taken to bring it in line with the lesson plan. The feedback is collected

from students and appropriate measures are taken as detailed below: 1. Feedback from the students collected in the Class Committee meeting arranged after the first and second internal assessment tests. 2. Feedback is taken from the students on the teaching of every course at the end of the semester. 3. Once in a year parent teacher meeting is arranged to get parents' views also. For all the concerns raised appropriate actions are taken. Performance of the students in the internal assessment tests is taken as an indicator and used to categorize students. Evidence of Success The following figures indicate that the overall improvement in the university results and placement of students with consistent pass percentage are achieved, even with increasing number of graduates year after year. Problems Encountered and Resources Required A great deal of time is to be set apart by all the faculty members in monitoring, assessment and relevant documentation, apart from the time spent for the class room teaching. Best Practice 2: Title of the Practice: Formation of Department Associations Goal • To make students aware of current trends • To develop a platform where the technical innovativeness of students could be nurtured. • To enhance the technical innovativeness of our students by organizing workshops, Guest Lectures, symposium and conference under the banner of association in order to attract the interest of the students towards technical aspects of their education. • Provide a platform where the students can put their innovative efforts and clear their doubts to transform them into reality. The Context The contextual feature behind the department association created for each and every department of this institution is to expose students to current trends in industries by conducting workshops, Guest Lectures, symposium and conference. The practice: The association is inaugurated at the beginning of every academic year and the various association activities are conducted throughout the year. The students from the final year are appointed as president and secretary and responsibilities are assigned to them while organizing activities under banner of department association which helps to improve organizing skills of the students. Evidence of success Students' get exposed to various technologies and recent trends in industries. Final year students are able to do projects in recent trends and technologies with confidence. Student knowledge is getting improved and makes them globally competent. Students get good placement opportunities and found it easier to crack the test conducted during interviews. Problems encountered and resources required The problems encountered during the practice are to identify appropriate resource person and planning various activities based on university academic schedule. This is handled by having link with industrial experts and the faculties of the department play major role in bringing by appropriate resource person. Best Practice 3: Title of the Practice: Effective Mentoring System Goal The objectives of the practice followed by the Institute are: • Improvement of teacher-student relationship • Counseling students and interaction with them for problem solving • Focusing to train students for improvement in the global economy and quality of life of the students and public in the society. • Guiding students to choose right career path for job, higher studies, Entrepreneurship, etc. • Monitor, educate, inform, regulate and empower the students' progress among the parents and students. The Context The contextual feature behind the system is to make the parents aware of their ward's growth. The challenging task is that most of the parents are illiterate. Even some of the parents are not able to read , write and use mobile phones. In this context, the tutor ward system helps the parents to know about their ward's progress. The practice: Each staff is allocated with 15 students under this system. The allotted students are monitored by the faculty and they inform the parents periodically. The staff will meet the students and counsel them periodically. The progress of the students is informed to the parents by letter. As most of them are not able to read we call them in person and explain. Parents meetings are conducted periodically. Weak students are identified and given extra coaching for them to achieve success in their field.

As monitoring, assessing and mentoring are the basic criteria of higher education system of India, this system is on par with the context of higher education. Evidence of success Students' performances are assessed periodically. Weak students are identified and given extra coaching classes. This has good impact in their studies and results. The weak students have good success rate in the examinations against the fixed targets. Problems encountered and resources required The problems encountered during the practice are co operation of the parents and lack of awareness about technical education among parents. As most of them are not aware of the importance of higher education system, steps are taken to make them aware of the technological growth by conducting awareness programmes. Best Practice 4: Title of the Practice Project based learning 1. Goal The objectives of this project based learning of this institution are as follows: • To enhance the innovative skills of the student • To encourage the students to make projects to meet the challenges in current scenarios • To obtain the exposure of technical skills regarding project development • To induce the students to participate in the project expo conducted by the various colleges/universities • It also develops the presentation skill of the student when the project has been exhibited 2. The Context The contextual feature of this system is to make technically well equipped students by giving chance to learn and create the innovative projects. Here it gives an opportunity to analyze the industrial and social problems and make solutions for them through the project development. 3. The practice Innovative projects are published in media and the device developed is introduced to the society. To showcase the innovations of the students, the faculty members has been deputed as mentors for the project team and encouraged them to participate in HACKATHON and other events conducted as Project Expo. 4. Evidence of success The students have undergone their academic project with full-fledged involvement and innovative ideas. The following students from the various departments of this institution has been participated with their innovative projects and won the prizes in those events.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link
http://aec.org.in/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

Our institution is located in a rural area. Many of our students are from villages. Many students belong to first graduate category. Keeping this in mind, our college gives more importance to enhance the skills of the students to face the global challenges. Motivational programmes are conducted to make them aware of the society. Experts from all walks of life, District Collectors, Indian Police Service (IPS), Doctors, former Vice-Chancellor, environmentalists, social activists, legal experts, business peoples, human resource managers, sports personalities and motivational speakers are invited and awareness programmes are conducted to enhance the skills of the students in all aspects to face the society with confidence. More over the students are encouraged to face the updated technological developments in the field of science and technology. Certificate courses are conducted by international certified organizations such as CCNA, Autodesk and Rivet.

Provide the weblink of the institution
http://aec.org.in/naac/

8.Future Plans of Actions for Next Academic Year

1. To formulate Research committee and to submit project proposals to various funding agencies. 2. To encourage the students to carry out the innovative projects and to be projected in media. 3. To encourage faculty members to pursue their Ph.D. programmes. 4. To insist the faculty members to prepare e-content and to give invited talk through webinars 5. To initiate NCC unit in the college.