YEARLY STATUS REPORT - 2021-2022

Part A

Data of the Institution

1.Name of the Institution   Arasu Engineering College

- Name of the Head of the institution   Dr. T. Balamurugan

- Designation   Principal

- Does the institution function from its own   Yes
  campus?

- Phone no./Alternate phone no.   04352777788

- Mobile no   9443681418

- Registered e-mail   principal@aec.org.in

- Alternate e-mail   arasuengg@gmail.com

- Address   Chennai Main Road

- City/Town   Kumbakonam

- State/UT   Tamilnadu

- Pin Code   612501

2.Institutional status

- Affiliated /Constituent   Affiliated

- Type of Institution   Co-education

- Location   Rural

- Financial Status   Self-financing

- Name of the Affiliating University **Anna University, Chennai**

- Name of the IQAC Coordinator **Dr. Kalaimani Shanmugham**

- Phone No. **04352777799**

- Alternate phone No. **04352777788**

- Mobile **9443421673**

- IQAC e-mail address **viceprincipal@aec.org.in**

- Alternate Email address **ksyazh@gmail.com**

3.Website address (Web link of the AQAR (Previous Academic Year) https://aec.org.in/IQAC/

4.Whether Academic Calendar prepared during the year? **Yes**

- if yes, whether it is uploaded in the Institutional website Web link: https://aec.org.in/wp-content/uploads/2021/12/AcademicCalendar-OddSem21-22.pdf

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	**B**	**2.44**	**2018**	**16/08/2018**	**15/08/2023**

6.Date of Establishment of IQAC **03/06/2013**

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

Institutional/Department /Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Electrical and Electronics Engineering	RPS	AICTE	2022 (3 Years)	10,98,000
Mechanical Engineering	RPS	AICTE	2022 (3 Years)	3,28,333
Bio Medical Engineering	RPS	AICTE	2022 (3 Years)	9,49,333
Electrical and Electronics Engineering	ATAL FDP	AICTE	2021 (1 Week)	95,000
Department of Chemistry	National Conference	CSIR	2021 (1 Day)	15,000
Mechanical Engineering	Students Project Scheme	TNSCST	2022 (6 Months)	7,500
Computer Science and Engineering	Students Project Scheme	TNSCST	2022 (6 Months)	7,500
Electrical and Electronics Engineering	Students Project Scheme	TNSCST	2022 (6 Months)	7,500
Electronics and Communication Engineering	Rural Development Scheme	UBA	2022 (6 Months)	71,000

8.Whether composition of IQAC as per latest NAAC guidelines   Yes

- Upload latest notification of formation of IQAC   View File

9.No. of IQAC meetings held during the year `4`

- Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website? `Yes`

- If No, please upload the minutes of the meeting(s) and Action Taken Report No File Uploaded

10.Whether IQAC received funding from any of the funding agency to support its activities during the year? `No`

- If yes, mention the amount

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

`1. Special Lecture on Innovative Project Ideas by Dr. T. Balamurugan, Principal, Arasu Engineering College, Kumbakonam on 15.07.2021. 2. Three Day Workshop on NBA Orientation Programme by Dr. Kalaimani Shanmugham, IQAC Coordinator and Mr. M. Thiyagarajan, Assistant Professor from 10.01.2022 to 12.01.2022. 3. Special Lecture on Internal and End semester examinations Question Paper Mapping by Dr. M. Rukmangathan, Dean (academics), Arasu Engineering College, Kumbakonam on 22.04.2022 4. Submitted the NBA Compliance Report for Mechanical, CSE and EEE Departments on 16.06.2021. 5. Submitted NIRF Document on 09.02.2022.`

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

Plan of Action	Achievements/Outcomes
To prepare and distribute the E content for the relevant subjects and to prepare power point presentation for effective online and blended mode teaching and learning	The subject contents were effectively delivered to the students as per the scheduled lesson plan and through the AEC LMS developed by our students
To conduct more number of seminars, webinars, workshops, FDPs and conferences for quality improvement	Totally 174 programmes have been conducted during the academic year
To conduct more number of value added courses	12 value added courses have been conducted
To submit more number of project proposals to various funding agencies	Totally 54 project proposals were submitted by staff and students
To encourage the students to do the innovative projects for the betterment of the society	Totally 9 innovative projects were done by the students and published in various social media
To motivate the faculty members to file patent for their original research work	Totally 22 patents were filed during the academic year

13.Whether the AQAR was placed before statutory body?   **Yes**

- Name of the statutory body

Name	Date of meeting(s)
Governing Council Meeting	03/06/2022

14.Whether institutional data submitted to AISHE

Part A	
Data of the Institution	
1.Name of the Institution	**Arasu Engineering College**
• Name of the Head of the institution	**Dr. T. Balamurugan**
• Designation	**Principal**
• Does the institution function from its own campus?	**Yes**
• Phone no./Alternate phone no.	**04352777788**
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• Registered e-mail	**principal@aec.org.in**
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• City/Town	**Kumbakonam**
• State/UT	**Tamilnadu**
• Pin Code	**612501**
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• Type of Institution	**Co-education**
• Location	**Rural**
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• Name of the Affiliating University	**Anna University, Chennai**
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• if yes, whether it is uploaded in the Institutional website Web link:	https://aec.org.in/wp-content/uploads/2021/12/AcademicCalendar-OddSem21-22.pdf

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• If No, please upload the minutes of the meeting(s) and Action Taken Report	No File Uploaded	
10.Whether IQAC received funding from any of the funding agency to support its activities during the year?	No	
• If yes, mention the amount		

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Governing Council Meeting	03/06/2022

14.Whether institutional data submitted to AISHE

Year	Date of Submission
2021	28/01/2022

15.Multidisciplinary / interdisciplinary

Interdisciplinary approach is maintained in the curriculum, teaching learning and research activities in this institution. Within the curriculum, interdisciplinary approach is ensured in all programmes. For example, Environmental Science and Engineering is included for all courses. In Open elective course students can select subjects which are totally different from their main subjects. The subjects such as Disaster Management, Air Pollution and Control Engineering, Supply Chain Management, Hospital Management, Robotics, Renewable Energy Sources, Testing of Materials and Intellectual Property Rights are testimony to the multidisciplinary approach the college follows in academics. The Multidisciplinary projects carried out in various departments (CSE, ECE, EEE, Bio-Med and Mechanical) are examples for the Multidisciplinary knowledge sharing in the College. Integrated research and publication in EEE, CSE and Mechanical in Artificial Intelligence and Machine Learning have been facilitated in the college.

16.Academic bank of credits (ABC):

The Academic bank of credits of our students is listed as:

1. Number of Students Completed NPTEL Certification course - 08

2. Number of Students Completed Coursera/Solo learn - 05

3. Number of Students Completed Value added course on AutoCAD - 13

4. Number of Students Completed Value added course on Solidworks - 05

5. Number of Students Completed Value added course on MEP - 18

6. Number of Students Completed Value added course on CNC Turning - 12

7. Number of Students Completed Value added course on CNC Milling - 09

8. Number of Students Completed Value added course on JAVA Programming - 16

9. Number of Students Completed Value added course on PLC SCADA - 40

10. Number of Students Completed Value added course on Embedded Laboratory – 17

11. Number of Students Completed Value added course on Decarbonising the Engines - 43

17.Skill development:

Through Entrepreneurship development cell number of orientation programs were conducted to our students in order to make them as an efficient entrepreneur. Through the training and placement cell various employability skills such as interpersonal skills, communication skills, soft skills, technical skills and leadership skills are inculcated among the students. Through value added courses specific technical skills for implementation of the project are imparted.

18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)

Our college has separate cell called Tamil Perayam for promoting Tamil language. We give training in Yoga and regularly conduct Yoga competitions. Also give training in martial arts for promoting our culture and tradition of India.

19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):

Outcome-Based Education (OBE) is a student-centric teaching and learning methodology in which the course delivery, assessment are planned to achieve stated objectives and outcomes. It focuses on measuring student performance i.e. outcomes at different levels. The entire curriculum and teaching learning process of the college is focused towards programme outcome (POs), programme specific outcome (PSOs) and course outcome (COs). These outcomes are published in the college website and known to all aspiring students. The programme outcomes and programme specific outcomes are communicated to the students during orientation programmes. The course outcomes are made known to the students by respective teachers at the beginning of the course. These outcomes are evaluated through internal and external examinations, seminars, projects and participation of the students in different co-curricular activities. The programme outcomes to a great extent are reflected in the students' progression towards higher studies and placements. The levels of achievement of these outcomes are monitored at the various levels by DAC, IQAC and Department meetings.

20.Distance education/online education:

During pandemic situation our college has adopted online teaching and learning methodology such as flipped and blended mode of learning. Online platforms such as Zoom, Google Meet, Webex, Microsoft Teams, etc., were used to deliver the content to the students their by innovative teaching pedagogy was adapted. MCQ based and proctored based examinations system was followed. Professional development activities such as seminars, workshops and conferences are conducted through virtual mode.

Extended Profile

1.Programme

1.1 Number of courses offered by the institution across all programs during the year	**565**

File Description	Documents
Data Template	[View File](#)

2.Student

2.1 Number of students during the year	**1003**

File Description	Documents
Institutional Data in Prescribed Format	[View File](#)

2.2 Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	**408**

File Description	Documents
Data Template	[View File](#)

2.3 Number of outgoing/ final year students during the year	**159**

File Description	Documents
Data Template	[View File](#)

3.Academic	
3.1 Number of full time teachers during the year	**146**

File Description	Documents
Data Template	[View File](#)

| 3.2

Number of sanctioned posts during the year | **8** |

File Description	Documents
Data Template	[View File](#)

4.Institution	
4.1 Total number of Classrooms and Seminar halls	**51**
4.2 Total expenditure excluding salary during the year (INR in lakhs)	**285.77**
4.3 Total number of computers on campus for academic purposes	**500**

Part B

CURRICULAR ASPECTS

1.1 - Curricular Planning and Implementation

1.1.1 - The Institution ensures effective curriculum delivery through a well planned and documented process

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. Academic Calendar is prepared with details of the activities of the Academic Year. Subject allotment is done based on experience and performance of the faculty in previous years. Time table framed with provision for Value Added Courses, placement and training, tutorial and class test. Lesson Plan, Question Bank, Lab Manuals are planned in advance. The attendance

and performance of the students are monitored by the Class advisors and HODs. Remedial classes are conducted for the slow learners after the college working hours.

NPTEL-E-learning through online Web is used by the faculty members. E-learning materials have been developed by our faculties for all the subjects to provide 24x7 learning Environment to our students through AEC Learning Management System. Monitoring of course delivery and syllabus completion is done through class committee meetings, feedbacks and regular academic audits. Systematic examination process, standard question papers, proper and prompt evaluation and periodical dispatch of reports to parents. Guest lectures, seminars, Industrial visits and training programs are conducted to supplement the curricular inputs.

File Description	Documents
Upload relevant supporting document	[View File](#)
Link for Additional information	**Nil**

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

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, guest lectures and conferences are scheduled and executed. Academic calendar includes project reviews, parents meeting and association activities.

File Description	Documents
Upload relevant supporting document	[View File](#)
Link for Additional information	https://aec.org.in/wp-content/uploads/2021/12/AcademicCalendar-OddSem21-22.pdf

1.1.3 - Teachers of the Institution participate	**B. Any 3 of the above**

in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the year. Academic council/BoS of Affiliating University Setting of question papers for UG/PG programs Design and Development of Curriculum for Add on/ certificate/ Diploma Courses Assessment /evaluation process of the affiliating University

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	View File
Any additional information	View File

1.2 - Academic Flexibility

1.2.1 - Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

1.2.1.1 - Number of Programmes in which CBCS/ Elective course system implemented

12

File Description	Documents
Any additional information	No File Uploaded
Minutes of relevant Academic Council/ BOS meetings	View File
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Add on /Certificate programs offered during the year

1.2.2.1 - How many Add on /Certificate programs are added during the year. Data requirement for year: (As per Data Template)

13

File Description	Documents
Any additional information	**No File Uploaded**
Brochure or any other document relating to Add on /Certificate programs	View File
List of Add on /Certificate programs (Data Template)	View File

1.2.3 - Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year

120

File Description	Documents
Any additional information	**No File Uploaded**
Details of the students enrolled in Subjects related to certificate/Add-on programs	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

As AEC is affiliated to Anna University, the curriculum defined by the university is followed. The prescribed curriculum effectively integrates issues relevant to gender, environment and sustainability, human values and professional ethics and leads to a strong value-based holistic development of students.

Gender Sensitivity: Gender related programmes are organised through Women Development Cell. Free counselling services are provided through a counselling Cell. WDC annually organizes seminars, conferences and guest lectures that help in gender sensitization.

Environment and Sustainability: The curriculum incorporates Environment Science and Engineering. The subject includes the students to know about water quality, air quality, education and healthcare, Sanitation and Waste Management, Renewable Energy and Green Technology.

Human Values and Professional Ethics: A course of one credit on human values "Professional Ethics and Human Values" is offered as open elective to all the students. In view of Social development

activities like working in NGOs, organizing blood donation camps, health check-up camps, hygiene and health workshops, river cleanliness drive, workshops on social issues, public health, gender issues etc. As an integral part of student engagement in social activities during their programme of study, college also mandates all the students to enrol as NSS/NCC Volunteers.

File Description	Documents
Any additional information	**No File Uploaded**
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View File

1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

18

File Description	Documents
Any additional information	**No File Uploaded**
Programme / Curriculum/ Syllabus of the courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	View File
MoU's with relevant organizations for these courses, if any	View File
Institutional Data in Prescribed Format	View File

1.3.3 - Number of students undertaking project work/field work/ internships

150

File Description	Documents
Any additional information	**No File Uploaded**
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	View File

1.4 - Feedback System

1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders Students Teachers Employers Alumni	**B. Any 3 of the above**

File Description	Documents
URL for stakeholder feedback report	**Nil**
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	**No File Uploaded**
Any additional information	View File

1.4.2 - Feedback process of the Institution may be classified as follows	**C. Feedback collected and analyzed**

File Description	Documents
Upload any additional information	View File
URL for feedback report	**Nil**

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment Number Number of students admitted during the year

2.1.1.1 - Number of students admitted during the year

330

File Description	Documents
Any additional information	**No File Uploaded**
Institutional data in prescribed format	View File

2.1.2 - Number of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the year (exclusive of supernumerary seats)

2.1.2.1 - Number of actual students admitted from the reserved categories during the year

326

File Description	Documents
Any additional information	**No File Uploaded**
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses the learning levels of the students and organizes special Programmes for advanced learners and slow learners

Methodologies to support bright students and slow learners

1. **Students are categorized as A (>75%), B (60 to 75%) and C (<60%) category based on their performance in Internal Assessment Tests and University examinations.**
2. **Students belong to A and B categories are bright students (advanced learners) and students belongs to C category are slow learners. Special activities and additional programmes are conducted for bright students to make them cope up with growing trends and special coaching classes are conducted for slow learners in order to make them clear their examinations.**
3. **Bright students are focused by providing activities such as Soft skill training, Guiding for career planning, seminar on advanced topic, encouragement to present paper in the conference and to participate in symposium and Project EXPO. Rank holders and class toppers are motivated by recognizing them during graduation and annual days.**
4. **Care is taken by the faculties in monitoring the performance of slow learners, the students deviations from studies is observed by the respective faculty advisor and corrective measures are taken.**

5. The faculties also go a step ahead and have periodic interaction with the parents about the performance of slow learners.
6. A motivation and responsibility from both parents and faculty will create a positive mindset and will help to overcome the inabilities and hurdles faced by the slow learners. Parents Teacher meetings are conducted in an effective manner.
7. The slow learners are focused by conducting remedial coaching class and retest is conducted regularly.

File Description	Documents
Paste link for additional information	**Nil**
Upload any additional information	View File

2.2.2 - Student- Full time teacher ratio (Data for the latest completed academic year)

Number of Students	Number of Teachers
2172	**146**

File Description	Documents
Any additional information	View File

2.3 - Teaching- Learning Process

2.3.1 - Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

The teaching-learning process is one major objective and the strength of our college. Students are given a right blend of traditional and modern methods to make learning student-centric and a rewarding experience. Experiential learning, participative learning and problem solving methodologies are well adopted to ensure the holistic development of students and facilitate life-long learning and knowledge management.

Participative learning

Flipped Classes, blended learning and model making methods are introduced for selected topics to enhance participative learning.

Experiential learning

Practical courses (laboratory) including virtual labs are made compulsory in the curriculum.

Different learning methods viz. problem-based, case-based, project-based, inquiry based, computation-based, co-operative (work- or community-based) are implemented wherever feasible.

Students are encouraged to take up innovative projects and mini projects.

Organization of exhibitions and open houses project on regular basis are a source of motivation for younger students of the college.

Using research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

Problem solving methodologies adopted are

Giving assignments and quizzes at the end of instruction of each unit.

Case Study Analysis and Discussion.

Product Design and development.

Implementation of real time projects.

File Description	Documents
Upload any additional information	View File
Link for additional information	Nil

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words

Effective content delivery by using ICT tools in the classroom for better understanding and reinforcement of the concepts and problem-solving is adopted by all the faculty of the institution. ICT tools complement the traditional teaching-learning methods, and the institute is highly interested in providing innovative methods for enriching the learning experience. The institution has the needed resources which include wide availability of computers in

engineering departments and library with high-speed internet access. Teaching/Learning methodologies include the use of ICT tools for illustrations and special lectures, field study, case-studies, project-based-methods, experimental methods, flipped class room sessions etc.

The conventional lecture method facilitates the teacher to interpret, explain and revise the content of a topic, only for better understanding of the subject by the learners. ICT components are embedded in the course contents of all relevant engineering disciplines which include free /commercial software used for computation / simulation such as the use of MATLAB for solving differential equations and statistical analysis of experimental results in project works. Communication skills training facility is enriched with ICT tools to make the students acquire proficiency in listening, speaking, reading and writing skills.

File Description	Documents
Upload any additional information	**No File Uploaded**
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	View File

2.3.3 - Ratio of mentor to students for academic and other related issues (Data for the latest completed academic year)

2.3.3.1 - Number of mentors

70

File Description	Documents
Upload, number of students enrolled and full time teachers on roll	**No File Uploaded**
Circulars pertaining to assigning mentors to mentees	View File
Mentor/mentee ratio	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full time teachers against sanctioned posts during the year

146

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	View File
Any additional information	**No File Uploaded**
List of the faculty members authenticated by the Head of HEI	View File

2.4.2 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.B Superspeciality / D.Sc. / D.Litt. during the year (consider only highest degree for count)

2.4.2.1 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.C Superspeciality / D.Sc. / D.Litt. during the year

10

File Description	Documents
Any additional information	**No File Uploaded**
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year (Data Template)	View File

2.4.3 - Number of years of teaching experience of full time teachers in the same institution (Data for the latest completed academic year)

2.4.3.1 - Total experience of full-time teachers

621

File Description	Documents
Any additional information	**No File Uploaded**
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	View File

2.5 - Evaluation Process and Reforms

2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and

mode. Write description within 200 words.

As per the guidelines provided by the affiliating university the internal assessment of the students is done at regular interval and the evaluation process is completely transparent. In order to carry out the internal assessment of the students an internal examination (IE) cell was constituted. Based on the affiliating university guidelines, the internal assessment is done by conducting two assessment tests and one model examination as per the academic schedule given by the university. The IE cell prepares and disseminates the time table for conducting the tests. The question paper is collected from the individual staff members through the head of the department and on the day of examination the question papers will be distributed to the students and the writing of examination by the students will be monitored by the invigilators. The answer scripts are evaluated by the concerned staff member and after getting approval from the higher authorities the answer will be distributed to the students. The marks obtained by the students are recorded and entered in the university web portal for calculating the internal marks.

File Description	Documents
Any additional information	View File
Link for additional information	Nil

2.5.2 - Mechanism to deal with internal examination related grievances is transparent, time- bound and efficient

In our institution there is a well defined mechanism to deal with the internal examination related grievances if any in transparent, time-bound and efficient manner. The students may register their internal examination related grievances if any either with the internal examination cell, grievance redressal committee or directly with the Principal. Such complaints registered if any will be handled by a committee comprising senior faculty members constituted by the Principal for giving proper redressal to the complaints.

File Description	Documents
Any additional information	No File Uploaded
Link for additional information	Nil

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

Yes. The programme outcome for the particular programme is clearly framed by the department in coordination with the norms of the affiliating university. The course outcome of all the courses of a particular programme is supplemented by the university along with the curriculum and syllabi. Both the programme outcome and course outcomes of all programmes offered by the institution are clearly stated and displayed on college website and communicated to both staff and students through various modes such as displaying in the form of hoardings in prominent places and mentioning in students' records, notebooks, staff work diary, etc.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for Additional information	https://aec.org.in/eee-co/
Upload COs for all Programmes (exemplars from Glossary)	**No File Uploaded**

2.6.2 - Attainment of Programme outcomes and course outcomes are evaluated by the institution.

Attainment of Course Outcomes

The course outcome for all the courses in a particular semester is evaluated through university examinations.

- Attainment is measured in terms of actual percentage of students getting set percentage of marks.
- If targets are achieved then all the course outcomes are attained for that year. Program is expected to set higher targets for the following years as a part of continuous improvement.
- If targets are not achieved the program should put in place an action plan to attain the target in subsequent years

Attainment of Program Outcomes and Programme Specific Outcomes

The programme outcome of a particular programme for a particular batch is evaluated every year through the number of students graduated and feedback from employers, Alumni and Academic peers.

```
Direct attainment level of a PO & PSO is determined by taking
average across all courses addressing that PO and/or PSO.

Indirect attainment level of PO & PSO is determined based on the
student exit surveys, employer surveys, co-curricular activities,
extracurricular activities etc.

PO & PSO Attainment level will be 80% of direct assessment + 20%
of indirect assessment.
```

File Description	Documents
Upload any additional information	[View File](#)
Paste link for Additional information	**Nil**

2.6.3 - Pass percentage of Students during the year

2.6.3.1 - Total number of final year students who passed the university examination during the year

135

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	[View File](#)
Upload any additional information	**No File Uploaded**
Paste link for the annual report	**Nil**

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a weblink)

[https://docs.google.com/forms/d/e/1FAIpQLSfB1tpBKm_jJ_qZlYFuB3R4O RqRZOg5uOWazonw8NTleaxmA/viewform](https://docs.google.com/forms/d/e/1FAIpQLSfB1tpBKm_jJ_qZlYFuB3R4ORqRZOg5uOWazonw8NTleaxmA/viewform)

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Resource Mobilization for Research

3.1.1 - Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

3.1.1.1 - Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

33.42212

File Description	Documents
Any additional information	**No File Uploaded**
e-copies of the grant award letters for sponsored research projects /endowments	View File
List of endowments / projects with details of grants(Data Template)	View File

3.1.2 - Number of teachers recognized as research guides (latest completed academic year)

3.1.2.1 - Number of teachers recognized as research guides

2

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

3.1.3 - Number of departments having Research projects funded by government and non government agencies during the year

3.1.3.1 - Number of departments having Research projects funded by government and non-government agencies during the year

7

File Description	Documents
List of research projects and funding details (Data Template)	View File
Any additional information	**No File Uploaded**
Supporting document from Funding Agency	View File
Paste link to funding agency website	**Nil**

3.2 - Innovation Ecosystem

3.2.1 - Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Our institute has created an ecosystem for the innovations by staff and students, and has lot of initiatives for creation and transfer of knowledge.

An active Research Committee was framed :

1. To identify emerging areas of research
2. To encourage the faculty members to organize more number of seminars, conferences and workshops.
3. To encourage faculty members to apply for major, minor research projects, incubation, design and innovation centres.
4. To strengthen industry – institute interaction by promoting consultancy, testing and need based research & innovation activities in the institute
5. To assist faculty on research proposals, patenting, research contracts and intellectual property issues.

1. To prepare a comprehensive list of funding agencies that allocate funds for R & D projects
2. To prepare project proposals for getting funds from various funding agencies like DST, AICTE, UBA, CISR etc.

Entrepreneurship Development Cell

The Entrepreneurship Development Cell(EDC)for Skill Training, Research and Original thinking is established to help staff and students in the development of India's Entrepreneurial eco-system. The objective of the EDC is to bring awareness on entrepreneurship, motivate students to take calculated risks and come up with some innovative ideas to begin start-ups.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	Nil

3.2.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the year

3.2.2.1 - Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during the year

60

File Description	Documents
Report of the event	**No File Uploaded**
Any additional information	View File
List of workshops/seminars during last 5 years (Data Template)	View File

3.3 - Research Publications and Awards

3.3.1 - Number of Ph.Ds registered per eligible teacher during the year

3.3.1.1 - How many Ph.Ds registered per eligible teacher within the year

10

File Description	Documents
URL to the research page on HEI website	**Nil**
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc (Data Template)	View File
Any additional information	View File

3.3.2 - Number of research papers per teachers in the Journals notified on UGC website during the year

3.3.2.1 - Number of research papers in the Journals notified on UGC website during the year

71

File Description	Documents
Any additional information	View File
List of research papers by title, author, department, name and year of publication (Data Template)	View File

3.3.3 - Number of books and chapters in edited volumes/books published and papers

published in national/ international conference proceedings per teacher during the year

3.3.3.1 - Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during year

82

File Description	Documents
Any additional information	View File
List books and chapters edited volumes/ books published (Data Template)	View File

3.4 - Extension Activities

3.4.1 - Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the year

The institute promotes regular engagement of faculty, students and staff with neighborhood community for their holistic development and sustained community development through various activities. Every Year, programme are organized under which students and staff participate voluntarily in community based activities with neighborhood.

Various awareness programs, workshops, rallies and road shows with themes like cleanliness, green environment & tree plantation, gender sensitization, traffic rule awareness, demonetization and digital payment, and empowerment of girls and women; and help acid-attack survivors are organized.

Continuous voluntary activities by students to maintain cleanliness in and around the Campus, create awareness about the role of clean environment in human health and contribute to the National Swachh Bharat Abhiyan

File Description	Documents
Paste link for additional information	**Nil**
Upload any additional information	View File

3.4.2 - Number of awards and recognitions received for extension activities from government / government recognized bodies during the year

3.4.2.1 - Total number of awards and recognition received for extension activities from

Government/ Government recognized bodies year wise during the year

12

File Description	Documents
Any additional information	View File
Number of awards for extension activities in last 5 year (Data Template)	View File
e-copy of the award letters	**No File Uploaded**

3.4.3 - Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs) during the year

3.4.3.1 - Number of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year

67

File Description	Documents
Reports of the event organized	View File
Any additional information	View File
Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template)	View File

3.4.4 - Number of students participating in extension activities at 3.4.3. above during year

3.4.4.1 - Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year wise during year

5724

File Description	Documents
Report of the event	View File
Any additional information	View File
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	View File

3.5 - Collaboration

3.5.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year

3.5.1.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year wise during the year

43

File Description	Documents
e-copies of related Document	View File
Any additional information	**No File Uploaded**
Details of Collaborative activities with institutions/industries for research, Faculty	View File

3.5.2 - Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the year

3.5.2.1 - Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year wise during the year

3

File Description	Documents
e-Copies of the MoUs with institution./ industry/corporate houses	View File
Any additional information	View File
Details of functional MoUs with institutions of national, international importance, other universities etc during the year	View File

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.

The institution has adequate facilities for teaching – learning, viz., classrooms, laboratories, computing equipment, etc. Physical facilities and adequate infrastructure facilities are keys for effective and efficient conduct of the educational programmes. The other supportive facilities on the campus are developed to contribute to the effective ambience for curricular, extra-curricular and administrative activities. Optimal deployment of infrastructure is ensured through conducting workshops/awareness programs/training programs for faculty on the use of new technology.

Library as a learning resource, holdings in terms of books, journals and other learning materials and technology-aided learning mechanisms for enabling the students to acquire information, knowledge and skills required for their study programmes. Automation of library using the ILMS, use of e-journals and books is providing remote access to e-resources in the library.

The institution adopts policies and strategies for adequate technology deployment and maintenance. The ICT facilities and other learning resources are adequately available in the institution. The staff and students have access to technology and information retrieval on current and relevant issues.

Regular maintenance of infrastructure is for making the effective utilisation of the facilities and also to promote them for the optimum use of the same.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	http://aec.org.in/infrastructure/#

4.1.2 - The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.

Sports :

Sports and games help the students to improve their interpersonal relationship in healthy manner. Talented students are honored with medals, trophies and certificate.The department of Physical Education in the college is well equipped with various facilities in sports and games for indoor and outdoor also. The college has indoor game facilities as Chess, Carom, Table Tennis and Cricket ground, Volley ball court, Basketball court and Football ground as outdoor games.

Yoga :

The institute has dedicated space for Yoga and Meditation for improving mental and physical health of faculty and students.International Yoga day is celebrated every year by NSS

Gymnasium:

The institute has an in-house gymnasium facility which the faculty and students can avail. The gymnasium has facilities like treadmill, cycle, abdominal bench, Weights and Dumbbells.

Cultural:

Cultural activities are conducted on different occasions like first year induction, annual day, teacher's day and Womens Day. To bring out the inherent talent of the students, the college has started clubs likeTamil Perayam etc..The institute also has an open-air lawn where students conduct these culturalprogrammes.There are sufficient seminar halls and an auditorium to conduct cultural activities.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://aec.org.in/nss-yoga-acheivements-2020/

4.1.3 - Number of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc.

11

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	http://aec.org.in/infrastructure/
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure, excluding salary for infrastructure augmentation during the year (INR in Lakhs)

4.1.4.1 - Expenditure for infrastructure augmentation, excluding salary during the year (INR in lakhs)

45

File Description	Documents
Upload any additional information	View File
Upload audited utilization statements	View File
Upload Details of budget allocation, excluding salary during the year (Data Template	View File

4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS)

Library as a Learning Resource. The library holdings in terms of books, journals and other learning materials and technology-aided learning mechanisms which enable students to acquire information, knowledge and skills required for their study programmes. A recent development in the field due to availability of digital means, the functioning of the library has undergone a drastic change. Automation of library using the ILMS, use of e-journals and books, providing remote access to e-resources in the library have become a matter of necessity. Providing for these and such other developments as well as utilizing them well are important indicators of the quality of an academic institution.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for Additional Information	**Nil**

4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources

B. Any 3 of the above

File Description	Documents
Upload any additional information	[View File](#)
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	[View File](#)

4.2.3 - Expenditure for purchase of books/e-books and subscription to journals/e- journals during the year (INR in Lakhs)

4.2.3.1 - Annual expenditure of purchase of books/e-books and subscription to journals/e-journals during the year (INR in Lakhs)

17.436

File Description	Documents
Any additional information	**No File Uploaded**
Audited statements of accounts	**No File Uploaded**
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	[View File](#)

4.2.4 - Number per day usage of library by teachers and students (foot falls and login data for online access) (Data for the latest completed academic year)

4.2.4.1 - Number of teachers and students using library per day over last one year

103

File Description	Documents
Any additional information	**No File Uploaded**
Details of library usage by teachers and students	View File

4.3 - IT Infrastructure

4.3.1 - Institution frequently updates its IT facilities including Wi-Fi

IT Infrastructure: The institution adopts policies and strategies for adequate technology deployment and maintenance. The ICT facilities and other learning resources are adequately available in the institution for academic and administrative purposes. The staff and students have access to technology and information retrieval on current and relevant issues. The institution deploys and employs ICTs for a range of activities.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	**Nil**

4.3.2 - Number of Computers

500

File Description	Documents
Upload any additional information	**No File Uploaded**
List of Computers	View File

4.3.3 - Bandwidth of internet connection in the Institution	**B. 30 - 50MBPS**

File Description	Documents
Upload any additional Information	**No File Uploaded**
Details of available bandwidth of internet connection in the Institution	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the year (INR in Lakhs)

4.4.1.1 - Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component during the year (INR in lakhs)

122.99

File Description	Documents
Upload any additional information	View File
Audited statements of accounts	View File
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View File

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

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. 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. 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, etc. Our college has separate modern Multi Gyms for boy and girl students and staff usage.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	**Nil**

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

5.1.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

24539661

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	**No File Uploaded**
Upload any additional information	View File
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	View File

5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year

5.1.2.1 - Total number of students benefited by scholarships, free ships, etc provided by the institution / non- government agencies during the year

1025500

File Description	Documents
Upload any additional information	View File
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	View File

5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following: Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) ICT/computing skills	A. All of the above

File Description	Documents
Link to Institutional website	Nil
Any additional information	View File
Details of capability building and skills enhancement initiatives (Data Template)	View File

5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

616

5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

616

File Description	Documents
Any additional information	View File
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organization wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees	A. All of the above

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View File
Upload any additional information	**No File Uploaded**
Details of student grievances including sexual harassment and ragging cases	**No File Uploaded**

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

74

File Description	Documents
Self-attested list of students placed	**No File Uploaded**
Upload any additional information	View File
Details of student placement during the year (Data Template)	View File

5.2.2 - Number of students progressing to higher education during the year

5.2.2.1 - Number of outgoing student progression to higher education

5

File Description	Documents
Upload supporting data for student/alumni	View File
Any additional information	**No File Uploaded**
Details of student progression to higher education	View File

5.2.3 - Number of students qualifying in state/national/ international level examinations during the year (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)

5.2.3.1 - Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations) during the year

0

File Description	Documents
Upload supporting data for the same	View File
Any additional information	No File Uploaded
Number of students qualifying in state/ national/ international level examinations during the year (Data Template)	View File

5.3 - Student Participation and Activities

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

5.3.1.1 - Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national / international level (award for a team event should be counted as one) during the year.

65

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	No File Uploaded
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level (During the year) (Data Template)	View File

5.3.2 - Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities (student council/ students representation on various bodies as per established processes and norms)

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.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

5.3.3 - Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)

5.3.3.1 - Number of sports and cultural events/competitions in which students of the Institution participated during the year

17

File Description	Documents
Report of the event	No File Uploaded
Upload any additional information	No File Uploaded
Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions (Data Template)	View File

5.4 - Alumni Engagement

5.4.1 - There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Alumni Details: 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 17.04.2022.

Activities:

1. . A webinar on EDII entrepreneurship courses given by Mr. Mr.M.Thiyagarajan (EEE, 2006 passed out) on 26.03.2022. andA webinar on Ready to be an Entreprenrurgiven by Mr. Mr.M.Thiyagarajan (EEE, 2006 passed out) on 10.08.2021.

2.Mr.K.Mohammed Haris (IT, 2005passed out) and Mrs.B.Dhivya (CSE, 2015 Passed out) delivered technical talk on short term training programmeinDatabase management system and Advanced applications on 18.02.2022.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

5.4.2 - Alumni contribution during the year (INR in Lakhs)	E. <1Lakhs

File Description	Documents
Upload any additional information	No File Uploaded

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of and in tune with the vision and mission of the institution

The vision of the institution is to be a Centre of Excellence in Engineering, Technology and Management on par with International standards The mission of the institution is to prepare the students with high professional skills and ethical values, to Impart knowledge through Best practices. Our college provides

academic ambience through inspiration, fosters enthusiasm and motivation so as to realize challenging and rewarding career pathways to students. Our unwavering commitment to quality education and experiential learning ensures that our students develop the abilities for critical thinking and evaluation of issues; they are trained to translate concepts and theoretical knowledge into real time situations.Our affiliating University, Anna University Chennai is one of the leading technological universities in India. The program educational objectives,Program specific objectives and program outcomes are derived from the requirements of the National Board of accreditation. We follow Choice Based Credit System(CBCS) and there is vertical and horizonal mobility in the selection of electives based on the student's 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.

File Description	Documents
Paste link for additional information	http://aec.org.in/vision-and-mission/
Upload any additional information	No File Uploaded

6.1.2 - The effective leadership is visible in various institutional practices such as decentralization and participative management.

The academic activities of the Institute are managed by the Principal. The college has Governing Council, for its perspective, policy, financial planning and management, meeting twice or more in a year. The agenda focuses on comprehensive development and on continuous improvement for steady growth of the college. The Council monitors the formulation, programme implementation and evaluation, reforming with special reference to quality and standards of academic and industrial expectations. Based on the decision made in the Governing Council meeting, the Chairman extends valuable support to the Principal in order to implement the plans and policies of the College. The academic activities of the institution are managed by the Principal. The principal ensures, implements, and execute the quality policy and plans, he takes care of well planned academic activity that leads to the attainment of stated quality policy, Co-ordination with senior faculty members in improving the image building of the Institute, Enhancement of the reputation of the Institution, through various social welfare activities, placement activities initiated, Best functioning of Grievance and redressal committee through an

effective feedback system, Inculcation of the social transformation through the activities of YRC, NSS etc. The entire department conducts National level Symposium, Workshops and Conferences organized by students as President, Vice President, Treasurer and other Volunteers.

File Description	Documents
Paste link for additional information	**Nil**
Upload any additional information	[View File](#)

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

The college has prepared a Strategic Plan for the Academic year2021-22by taking into consideration the quality indicators determined by NAAC. In the preparation of the Strategic Plan, the Internal Quality Assurance Cell (IQAC) of the college has taken initiatives inputs from all stakeholders, their expectations, management policies and goals and objectives of the college are considered as a base for formulation of the Strategic plan. Regarding curricular aspects the following things are considered such as Appointment of Qualified Teachers, Conduct of Academic Audit, Strengthening of Existing Programmes, Use of ICT in Teaching Learning System, Seminars and Workshops, Deputation to Seminars and Workshops, Development of Linkages, Effective Communication of Curriculum Design and Development to Faculty, Feedback on Curriculum Regarding teaching-learning Process the following things are considered such as Innovations to be Introduced in Admission Process and Student Profile, Monitoring of Teaching-learning Process, Introduction of Specialty Programmes, Recording of Attendance, Recognition of Merits, Academic performance of students shall be recognized by organizing the felicitation, Catering to Diverse Needs, Supporting Academic Programmes and Policies Proportionate to Needs of Students, Encouragement to Students, Guest Lecture Series, Conduct of Revision and Interactive Sessions and Parent Meetings

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

6.2.2 - The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.

The college is managed by Sri ThirunavukkarasuDhanalakshmi Educational and Charitable Trust. The Secretary and Chairman were concerned with the implementation and operations of the academic and administrative aspects. The Principal governs the academic and administrative departments of the college. The Deans along with the HODs are in-charges of the academic activities of the Department. The teaching staff takes care of the academic activities with co-curricular and extra-curricular activities. The office administration includes accounts maintenance, hostels, are coming under manager administration. Organization structure of Arasu Engineering College is a decentralized type with Board of Trustees on the top of decision making followed by Advisor/Correspondent and Principal. Theadministrations of the academic and non-academic activities are carried by various Cells and Committees formed and authorized in the governing council. Committees such as Sports Committee,Cultural committee, Library Advisory committee,Hostel Committee,Placement and Training,Anti Ragging and grievances redressal committees will include student representative thereby management wants the decision making is in the hands of the students. Recruitment cell is chaired by the Chairman along withAdvisor,Principal, Vice Principal, Dean (academics) and HoDs and University Nominee to ensure transparency in the selection process

File Description	Documents
Paste link for additional information	Nil
Link to Organogram of the institution webpage	http://aec.org.in/
Upload any additional information	View File

6.2.3 - Implementation of e-governance in areas of operation Administration Finance and Accounts Student Admission and Support Examination	A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning)Document	No File Uploaded
Screen shots of user inter faces	View File
Any additional information	No File Uploaded
Details of implementation of e-governance in areas of operation, Administration etc(Data Template)	View File

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non- teaching staff

The college is implementing various schemes for the welfare of the teaching and non teaching staff members. The staff members are encouraged and given financial assistance to pursue higher education, to attend FDP in their field of interest, to attend and present research papers in National/International conferences, to publish research papers in refereed journals, to organize seminar, guest lecture, FDP for faculty members. Orientation programs are conducted for the newly recruited faculty members once in a year to enhance their teaching ability. Faculty members were appreciated and motivated for their performance by means of certificates and cash awards. The faculty members are encouraged to attend the seminars conferences as well as refresher courses organized by university and AICTE by providing on duty. The faculty members were given on duty to attend or either participate as a resource person in the outside world. The Institution provides the following towards retaining and motivating the employees such as Conducive working environment without any pressure, EPF, Vacation for teaching and non teaching staff members every semester, 12 Days casual leave per year, 3 months maternity leave , Earned Leave and Medical Leave. The faculty members are appreciated with incentives, promotions and rewards.

File Description	Documents
Paste link for additional information	**Nil**
Upload any additional information	View File

6.3.2 - Number of teachers provided with financial support to attend conferences/ workshops and towards membership fee of professional bodies during the year

6.3.2.1 - Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the year

91

File Description	Documents
Upload any additional information	View File
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year

6.3.3.1 - Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff during the year

07

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	**No File Uploaded**
Reports of Academic Staff College or similar centers	**No File Uploaded**
Upload any additional information	[View File](#)
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	[View File](#)

6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)

6.3.4.1 - Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course during the year

145

File Description	Documents
IQAC report summary	**No File Uploaded**
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	**No File Uploaded**
Upload any additional information	[View File](#)
Details of teachers attending professional development programmes during the year (Data Template)	[View File](#)

6.3.5 - Institutions Performance Appraisal System for teaching and non- teaching staff

The Management, Principal and HoD's are involved in the review of the performance appraisal report. Top management reviews the performance of the faculty's appraisal, which reflects in increment, incentive, allowances and promotions in turn this will

be communicated to the respective members. Faculty members have been asked to fill the annual performance appraisal report every academic year. Appraisal based on the following criteria such as Experience and Contribution made in academic and administration, developmental activities, Research, Contribution to the placement,self-appraisal of the respective. Every year, faculty members have to submit a self appraisal form. This Performance Appraisal of the faculty is evaluated according to the split up of marks for his/her teaching methodologies, course delivery, correction of answer scripts, regularity in taking classes and uniform coverage of syllabus and etc., These points carries 90 marks out of 100. Performance appraisal reports give quantitative assessment of a teacher on three Key Result Areas namely, Teaching ,Research and Service.The targets are set for each of the categories. The faculty members below the minimum target level are advised to attend Faculty Development Programmes inside or outside the college and opportunities are given for their improvement.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

Once in year statutory audit is conducted by the professionals.Audit is done by Government recognized Chartered Accountant. Fee collected from students is the major source of the Institution. In addition management is funding for capital expenses like new building and major equipments required if any. The audited income and expenditure statement for all the previous years are available with accounts section of the college. There is fully computerized accounts department in the institute. Each and every transaction is supported by the vouchers. All the collections are in the bank and all expenditures, recurring and non-recurring, are incurred through cheques. Department heads prepare the budget proposal based on their requirements and submit to the management every academic year. The top management reviews the budget proposals and approve accordingly. The purchase will be made strictly following the given budget proposal. Internal audit conducted by the internal auditor of the Institute.External audit

conducted by the chartered accountant.At the end of every academic year stock of every department is verified by the team of faculty members from other departments who act as internal auditors.

File Description	Documents
Paste link for additional information	**Nil**
Upload any additional information	[View File](#)

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

6.4.2.1 - Total Grants received from non-government bodies, individuals, Philanthropers during the year (INR in Lakhs)

15

File Description	Documents
Annual statements of accounts	**No File Uploaded**
Any additional information	[View File](#)
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template)	[View File](#)

6.4.3 - Institutional strategies for mobilization of funds and the optimal utilization of resources

Fee collected from students is the major source of the Institution. In addition management is funding for capital expenses like new building and major equipments required if any. The audited income and expenditure statement for all the previous years are available with accounts section of the college. Excess fund required for the development is contributed by the management. Optimal utilization of funds is ensured by allocating proper funds to the concerned areas. Stake holders from the respective departments are involved in the budgeting process.

File Description	Documents
Paste link for additional information	**Nil**
Upload any additional information	**No File Uploaded**

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

The IQAC Cell of the college works towards improving and maintaining the quality of education, identifying and suggesting new ways of using teaching aids, developing suitable infrastructure, and offering suggestions for the new self-finance courses. IQAC is an effective and efficient internal coordinating and monitoring mechanism. The main objectives are

1. To develop quality parameters for the activities of the college.
2. To facilitate the creation of a learner-centric environment conducive for quality education and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process.
3. To solicit, format and implement feedback/ suggestions from stake holders on quality related affairs.
4. To create quality consciousness among the stake holders especially students and both teaching and non-teaching faculty.
5. To document the steps taken and process implemented, leading to quality enhancement.
6. To act as a nodal agency to coordinate quality related activities in the campus.
7. To organize inter and intra institutional workshops, seminars on quality related themes and promotion of quality circles.
8. To prepare annual quality assurance report (AQAR) for NAAC to be submitted at the end of each academic year.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	[View File]()

6.5.2 - The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities

The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms Response: The IQAC

proposes some procedures for enhancing the teaching learning process. Department heads allocate the subjects to the faculty members based on their specialization and potential. As per the Anna University curriculum teachers prepare the lesson plan and get it approved by heads. Students will be assessed by Terminal Tests and model examination accordingly and internal marks will be given to the students. Class committee meeting is held three times in a semester to reveal their results and to fulfill their grievances. Assignments, seminars and models are given to the students for exposure of their subjects. Finally course portfolio of the subject is submitted to the HOD which completes the teaching learning process of the semester.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analyzed and used for improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)	A. All of the above

File Description	Documents
Paste web link of Annual reports of Institution	Nil
Upload e-copies of the accreditations and certifications	View File
Upload any additional information	No File Uploaded
Upload details of Quality assurance initiatives of the institution (Data Template)	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

The cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, etc., well incorporated into the curriculum itself. The subjects such as Professional Ethics and Human Values, Environmental Science and Engineering are included in the curriculum as core subjects. The women empowerment cell in the Institution organizes programs regularly for girl students. There is no gender bias in the Institute. The College has formed an Anti-Ragging committee with the Principal as the convener. This committee effectively controls ragging, which is a violation of fundamental human rights and human values. At the beginning of every year, this committee forms an Anti-Ragging Squad for the control of ragging.

Women Empowerment Cell of our college is established to empower our women students and staff to make them understand and react suitable to the issues pertaining to women students. In addition to discussing their issues and concerns, the cell creates awareness of rights and responsibilities. The cell functions arduously to enhance their status and thereby empowers them intellectually and various awareness programmes are arranged under the auspices of this cell to empower women students.

File Description	Documents
Annual gender sensitization action plan	Nil
Specific facilities provided for women in terms of:a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	http://aec.org.in/waiting-hall/

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation measures Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power efficient equipment	C. Any 2 of the above

File Description	Documents
Geo tagged Photographs	View File
Any other relevant information	No File Uploaded

7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

The waste management system is effectively implemented in our college. The solid wastes are collected and disposed in a safe manner. So many people are employed to dispose the waste. The sweepers collect the wastes and dispose it. The solid wastes such as paper, and other materials are collected and disposed. The liquid waste management is done in a recycling process. The following are the measures taken by the college to make the campus eco-friendly; Energy conservation The energy conservation leads to the saving of electric power. The avoidable losses are quantified and the ways for reduction of these losses are identified and implemented. Rain Water harvesting All the buildings are equipped with rain water harvesting system to accumulate the rainwater, rather than allowing it to run off. It increases the ground water level significantly. The large number of trees planted throughout the campus plays a vital part in carbon neutrality.. We plant around 200 saplings every year and the whole college is surrounded by lush green trees.

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	No File Uploaded
Geo tagged photographs of the facilities	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus	A. Any 4 or all of the above

File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Any other relevant information	No File Uploaded

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows: 1. Restricted entry of automobiles 2. Use of bicycles/ Battery-powered vehicles 3. Pedestrian-friendly pathways 4. Ban on use of plastic 5. Landscaping	A. Any 4 or All of the above

File Description	Documents
Geo tagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	No File Uploaded
Any other relevant documents	No File Uploaded

7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution

7.1.6.1 - The institutional environment and energy initiatives are confirmed through the following 1.Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities	A. Any 4 or all of the above

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	No File Uploaded
Certificates of the awards received	No File Uploaded
Any other relevant information	No File Uploaded

7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and	A. Any 4 or all of the above

facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment
5. Provision for enquiry and information :
Human assistance, reader, scribe, soft copies of reading material, screen   reading

File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Policy documents and information brochures on the support to be provided	**No File Uploaded**
Details of the Software procured for providing the assistance	**No File Uploaded**
Any other relevant information	**No File Uploaded**

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 200 words).

The institute is proactively taking efforts in providing anbetter environment. The initiatives are to promote better education, economic upliftment of the needy and setting communal harmony.

Unnat Bharat Abhiyaan (Under Ministry of HRD)-Adopted 4 villages in Kumbakonam region to conduct activities for their socio-economic development. UBA have conducted house hold servey in Umaiyalpuram villageon 10.03.2022. The College organized extension activities such DRUG AWARENESS PROGRAM and CANCER AWARENESS PROGRAM for the benefit of the society. Arasu Community Radio station regularly organizes many programmes relevant to Health and Social Issues.Blood donation camp is annually organized at the College NSS and YRC cell where students, faculty and staff contributed voluntarily by donating blood for the noble cause of serving society and proudly adorn the badge of a blood donor. Kabasura Kudineer (anti-biotic drink) was distributed to the public through NSS.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	[View File](#)
Any other relevant information	**No File Uploaded**

7.1.9 - Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens

The institution sensitizes the students and the employees to the constitutional obligations about values, rights, duties and responsibilities and constantly works upon to nurture them as better citizens of the country through various curricular and extra-curricular activities.

The college hoists the flag during national festivals and invites eminent persons to inspire students and staff by informing the qualities of freedom fighters and to emphasize the duties and responsibilities of citizens.

The college establishes policies that reflect core values. Code of conduct is prepared for students and staff and everyone should obey the conduct rules.The college encourages participation of students in Sports and Games, NCC and NSS at National level to strengthen nationwide bond and relation. The college regularly organizes cleaning activity of Mahamagam tank under Swatch Bharath Scheme.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	http://aec.org.in/photo-gallery/
Any other relevant information	**Nil**

7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to	**A. All of the above**

the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff 4. Annual awareness programmes on Code of Conduct are organized	

File Description	Documents
Code of ethics policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	**No File Uploaded**
Any other relevant information	**No File Uploaded**

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

The college is committed to promote ethics and values amongst students and faculty.

The college organizes National festivals as well as Anniversaries for the great Indian Personalities.

The following days are celebrated:

1. **Teachers day(5th Sept) as birthday of great teacher Dr.Sarvapalli Radhakrishanna**
2. **Engineers day(15th Sept) - The Birth anniversary of Sir M.Visvesvaraya the great Engineer of the country.**
3. **International Women's Day(8th March)**
4. **International Yoga day (21st June)**
5. **Independence day(15th August)**
6. **Republic day(26th Jan)**
7. **World environment day(5thJune)**
8. **NSS day(24th Sept)**
9. **World Students' Day (15th October)**

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	**No File Uploaded**
Geo tagged photographs of some of the events	View File
Any other relevant information	**No File Uploaded**

7.2 - Best Practices

7.2.1 - Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

.Best Practice 1:

Title of the Practice: Efficient implementation of course delivery for fostering effective knowledge transfer.

Goals

- **To ensure that the faculty member, prepare adequate study material, presentation material, videos, software tools, lesson plan, question bank and get approved by HOD.**

The Context

Appropriate steps are taken for continuous improvement which is very essential.

The Practice

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.

Evidence of Success

There is an overall improvement in the university results and placement of students with consistent pass percentage.

Best Practice 2 :

Title of the Practice : Project based learning

Goal

- **To enhance the innovative skills of the student**

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.

The practice

Innovative projects are published in media and the device developed is introduced to the society.

Evidence of success

The students have undergone their academic project with full-fledged involvement and innovative ideas.

File Description	Documents
Best practices in the Institutional website	https://www.youtube.com/watch?v=o0QJIGRu1aM&ab_channel=ArasuEngineeringcollege
Any other relevant information	**Nil**

7.3 - Institutional Distinctiveness

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 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, Indian Police Service (IPS), Indian Administrative Service (IAS), Doctors, Environmentalists, Social activists, legal experts, business people, 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. Moreover the students are encouraged to face the updated technological developments in the

field of science and technology. Students are encouraged to publish their projects in media and proper guidance and support provided to them to apply project proposal in Tamilnadu State Council of Science and Technology

File Description	Documents
Appropriate web in the Institutional website	View File
Any other relevant information	No File Uploaded

7.3.2 - Plan of action for the next academic year

1. To submit the project proposal to various funding agencies

2. To conduct more number of value-added and certificate courses

3. To establish Institution Innovation Council and promote Entrepreneur skills

4. To encourage the faculty members to publish paper in peer reviewed journals and to publish Patents

5. To collaborative with industries by signing MoU

6. To establish incubation centre and startups.