



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

ARUNACHALA COLLEGE OF ENGINEERING FOR WOMEN

**THANKA GARDENS, MANAVILAI, VELLICHANTHAI, NAGERCOIL,
KANYAKUMARI DISTRICT, TAMIL NADU.**

629203

www.arunachalacollege.com

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

March 2024

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Arunachala College of Engineering for Women (ACEW) was established in the year 2009. It is branded for its Quality Education and it is promoted by Thottam Madhavan Educational and Charitable Trust. The College is governed by the educationist Dr. T. Krishnaswamy. The institution is located in a calm and green area at Manavilai, near Vellichanthai, 10kms away from Nagercoil.

The Trust also manages a School, an Arts and Science College and a co-ed College namely Arunachala Matric Hr.Sec.School, Arunachala Arts and Science (Women) College and Arunachala Hitech Engineering College. Through these institutions, the trust provides quality education right from schooling to provide meritorious education with commitment. The Institution had a humble beginning, but has expanded its infrastructure and other amenities. Now it has spread over 10.07 acres of land. The institution reaches out to those who are the most underprivileged in terms of education and economy by offering basic facilities and excellent infrastructure.

The Institution is approved by All India Council for Technical Education, New Delhi and affiliated to Anna University, Chennai. It is an ISO 9001:2015 certified institution. The institution was started with four Engineering UG courses with 300 student intake. At present, it offers six BE / B.Tech programmes with 480 seats and five M.E programmes with 126 seats and MBA programme with 120 seats. The departments of Electrical and Electronics Engineering and Electronics and Communication Engineering have been recognized by Anna University as “Research Centres” to carry out research programmes leading to doctoral degree. The Department of CSE & EEE got permanent affiliation from Anna University, Chennai.

The institution implemented choice based credit system as prescribed by the University. It has a well established Institution Innovation Council (IIC) and Entrepreneurship Development Cell (EDC) to promote innovation, entrepreneurship and patents among the students and faculties. In its 15 years of existence, the institution has got the reputation as one of the best in the region.

ACEW will work hard and with a team of educationists whose dedication, commitment and expertise will contribute to the success in achieving its vision. Our aim is to empowering the women to face challenges in the society.

Vision

To inculcate value – based technical education and produce outstanding women graduates to compete with the technological challenges with right attitude towards social empowerment.

Mission

- To equip necessary resources and to establish sufficient infrastructure for a beneficial process of learning that paves the way for making ideal technocrats.
- To educate and make the students efficient with necessary skills and to make them industry ready.

- To establish higher learning and proficient research skills to confront fast – pacing technological scenarios.
- To provide valuable resource for social empowerment through excellence in technical education.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Effective student counselling service and mentoring system.
- Adequate, qualified, motivated and committed faculty.
- High percentage of pass and placement of students.
- Effective function of value added courses for all disciplines.
- Dedicated and committed management with good academic background.
- Well maintained state-of-art building infrastructure and laboratory facilities.
- ICT enabled class rooms, Wi-Fi enabled campus with modern laboratory facilities.
- Conducive environment for Research.
- Student centric functioning with mentoring, counselling through teachers and effective academic monitoring.
- Regular recipient of University Rank holders for various programmes at university level.
- The entire campus is under CCTV surveillance.
- Good number of paper publication by faculty members in reputed referred journals.
- Two departments ECE & EEE are approved centres of Anna University, Chennai to pursue Ph.D. programmes.
- EEE & CSE departments got permanent affiliation from Anna University, Chennai.
- One of the top women Engineering colleges in the state in producing large number of university rank holders.
- Reliable industry institution interaction.
- Bestowed with 'Best Women's Engineering College' by ISTE New Delhi in the year 2019.
- Secured second place in Anna University Academic Ranking in Tamil Nadu in April/ May 2020, Examinations.
- ISO 9001:2015 certification.
- Recognised by 2(f) of UGC act 1956
- Out Standing career counselling and excellent placement records
- High pass percentage in all Anna University Examination
- A Green, eco- friendly campus with plenty of trees and therapeutic plants
- Ragging free campus.
- A well organized and favourable environment for learning
- For the added benefit of the students, Drone, Robotic and Electric Vehicle Labs are installed, which are far beyond the University prescribed syllabus.

Institutional Weakness

- Funding / Grants from agencies are not sufficient.
- Being an affiliated Institution, there is limited academic autonomy in designing curriculum and syllabus.
- Since it is a self-financing Institution, no government funding is received.
- Institution is located in southern most part of our country, where the accessibility to industrial hubs is

difficult.

- Limited admissions from other states.
- Limited international collaborations and activities.
- No adequate Proficiency in communication among remote learners.

Institutional Opportunity

- Setting up industry sponsored / supported laboratories to cope industry ready Engineers.
- Coping up with rapidly changing technologies.
- Enhancing the communication and employability skills of rural students.
- Establish strong relationship with R&D department.
- To make all the departments as Research Centres recognized by affiliating University.
- Scope for interdisciplinary and sponsored projects.
- Strengthening of alumni association to strengthen institutional development.
- Consultancy and testing work with local industries and develop revenue generation through it.
- Developing entrepreneur skills and launching 'start-ups' within the institution.
- To attract more funded projects for research.
- Making the institution a preferred choice for students.
- Focusing on establishing Incubation, EDC infrastructure, and centres of excellence.
- Encouraging potential to apply for patents on new products and copyrights on services / ideas.

Institutional Challenge

- To face high competitive environment.
- To cope up with the fast change of technological transformations.
- To bring more funded research projects for research development.
- To strengthen Industry-Institute Interaction.
- Encouraging students for competitive examinations and higher studies.
- More focus must be given on Industrial training for faculty and students.
- More industry-oriented research problems must be undertaken.
- Attracting more consultancy services for the resource generation.
- Low proficiency in the English language presents challenges to the learning process of students.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Arunachala College of Engineering for Women is affiliated to Anna University and follows the curriculum prescribed. The college firmly believes that giving students the appropriate learning experiences will prepare them to be industry-ready engineers. The academic calendar of the institute includes curricular, co-curricular and extracurricular activities. Teaching plans are strictly followed and are routinely audited in the planned process. Seminars, Industrial Visits, Projects, Industry Interactions, Internships and Technical Sessions are given to the students for improving their technical skills. In order to encourage independent learning, students are required to finish Add-on courses. The staff always prepare the learning materials well in advance and course files are maintained properly. Feedback plays a crucial role for the growth of any Institution. Hence the

feedback is collected from various stakeholders such as Students, Teachers, Parents, Alumni & Employers. The feed backs are diligently analyzed and based on the inference necessary action is executed for the growth and success of the institution.

Teaching-learning and Evaluation

The range of learners backgrounds, skills and other personal characteristics will affect how much they learn. The institution's teaching and learning modalities are made appropriate for the learner population. Teachers offer a range of learning opportunities, such as group and solitary study.

The transparent admission process that complies with Anna University's regulations is handled by the admission team. The ranks of the students demonstrate that the caliber of students has been rising annually. Since the students come from a variety of backgrounds, the institute offers them academic as well as other supports.

Students who learn slowly are placed in special coaching classes. Students who enter in lateral entry take a bridge course. The advanced learners participate in competitions like hackathon. The institution has a mentoring system in which the staff function as their mentor.

The institution has a policy of hiring highly qualified faculty members on a regular basis which has improved the process of education. The institute also keeps the required teacher-student ratio accordingly.

Technical training courses and industry visits are planned to close the knowledge gap between academic programmes and industry demands. Conferences, workshops and guest lectures are held to improve students domain knowledge. Staff participate in FDPs for better understanding of the newest technology.

Examinations are systematically evaluated in accordance with the regulations published by the university which are updated as well to improve and maintain its efficiency. The POs, PSOs, COs, PEOs are formulated for every programmes. Systematic procedures are devised for assessing the attainment of POs, PSOs, and COs.

The Average pass percentage of the college is 98% and the college has secured 207 ranks with 7 gold medals. An institution's ability to educate and learn effectively is directly correlated with student satisfaction. Student feedback provides a valuable window into the actual quality of the teaching and learning process, allowing for the discovery of both the institution's strengths and areas for growth.

Research, Innovations and Extension

The organization is an IIC member and encourages research, innovation and extension related activities. In the past years, the institute has hosted workshops, seminars and Faculty Development Programmes. Our institution has received 20.7 lakhs from various funding agencies. Entrepreneurship Development cell works with the aim of creating entrepreneurs and supporting them. Many programmes were organized on the topics related to entrepreneurship. Projects were given to students to improve their critical thinking and research attitude. Many innovative projects are developed through the Research Departments of EEE and ECE.

The management motivates the members of Faculty and Students to publish in UGC/SCI/Scopus Journals by giving them rewards. The institution has filed 27 patents.

Various events pertaining to environmental preservation and community involvement such as blood donation camp, medical camps, tours to orphanage and oldage homes and participation in demonstrations are planned and conducted. These activities foster a strong sense of community among students and also help them to improve their leadership, organizing and communication skills. The institution has signed MOUs with industries. Through this various training programmes are conducted for the benefit of students.

Infrastructure and Learning Resources

The college spans with 10.07 acres of land and an built up area of 19,260sqm. The Institute has ICT enabled classrooms, fully equipped laboratories, sports facilities and good infrastructure. The college has seminar halls with adequate seating in all the departments. The college has an open auditorium, and a multi purpose hall facilitating the conduct of cultural activities, seminars, co-curricular and extra curricular activities. Each and every class room has a notice board to display information.

The college has Wi-fi facility and internet connection with 300mpbs bandwidth. Our campus is well-equipped with 400 computer systems. CCTV cameras are installed inside the campus in common rooms, pathways and at different checkpoints to monitor the campus activities.

The Library is equipped with adequate number of books, journals reference materials and e-sources. The Integrated Library Management System (ILMS) at the library makes books more accessible to patrons and staff. There is a video viewing feature in the library as well. This facility helps the students to gain knowledge.

The college offers both indoor and outdoor activity spaces. The college also has facilities like ramp, lift and disabled friendly toilet. The college has 42 buses and it covers almost all the parts of Kanyakumari district. The college also has basic amenities like cafeteria, store etc.,

The borewell in the campus provides a constant supply of water. Proper distribution pipes supply purified water to every block on campus. The college is an eco-friendly campus promoting the use of renewable energy and implementing initiatives like ban on plastics,save energy etc.,

Student Support and Progression

ACEW provides students from all disciplines with placement opportunities. Numerous students have got scholarships under SC/ST/BC/MBC, Minority and First Graduate Scholarship.

Government agencies at the state and central levels offer financial assistance to students according to specific economic standards. The College also provides financial assistance.

Teaching-learning, discipline, ragging and sexual harassment are all addressed and resolved promptly through the open and efficient grievance redressal mechanism. Students are represented on a number of the institution's committees. The committees include discipline committee, class committee, anti ragging committee and others.

Students who are preparing for various government examinations are encouraged and they receive additional coaching from the training and placement cell. Programmes for improving student's life skills, Language and Communication abilities as well as Soft Skills Training are offered.

Students receive awards for their exceptional athletic and cultural achievements. Through Entrepreneurship Development cell and Institution Innovation Council, students are given the chance to advance their technical, managerial, leadership and organizational skills.

The Alumni Association makes a substantial contribution through guest lectures, motivational talks by the former students and thereby helping in the development of the institution.

Governance, Leadership and Management

The institute's organizational structure is clearly defined. The Principal, with the help of department heads and other committees implements the policies of the management committee and board of governors.

The board of governors meets twice a year to discuss, evaluate and reach a consensus regarding the management and educational responsibilities of the institution. The institution's vision and mission are established by the Principal, the Managing Director, and the Governing Council.

Representatives of the institutions' faculty, non-teaching staff and students take part in a variety of committees as part of decentralization.

The implementation of e-governance is intended to facilitate admissions, financial reporting and examinations. To foster the personal and professional development of its faculty and staff, the institution implements a number of welfare initiatives. Among them is medical leave, maternity leave, provident fund, ON duty and support for higher education.

Faculty are financially supported by travel expenses, payment of registration fees etc. The faculty are also encouraged to attend FDPs, Workshops, Conferences and other events. Professional development programmes are conducted for teaching faculty. Administrative and technical training programmes are conducted for Non-teaching staff.

The faculty are motivated to enhance their educational qualifications by reducing their workload.

Through a self assessment process, all staff members, teaching and non teaching are able to critically examine their work to identify their strengths and weakness and receive appropriate feedback.

The institute's financial management is open and transparent. Regular internal and external audits are conducted on the income and expenses. An IQAC is in place at the university to monitor ongoing advancements in academic quality and excellence.

Institutional Values and Best Practices

Integrity is defined as the quality of being honest and having strong moral principles. The sole aim of the organisation is to encourage the mindset of the students to soar new heights by being honest with strong moral principles. The prime goal of this educational institution is to make the society better in all respects by providing quality education. The institution also tries to instill the values of social service among its students and faculty members by being a part of various social welfare schemes, and tie-ups with NGOs from time to time.

The College is committed to the holistic development of women and transforms them as agents of change within the family, society, and the nation as a whole. It strives to consistently uplift the standard of education provided, with relevance to the current global trends and standards.

Best Practice : I

Empowering the Women Through Skill Development and Career Opportunities

Department-wise Career Awareness Programmes on higher education, employment prospects, and communication skills are held regularly. All faculty members emphasize the value of women's education, higher education, career options and other related fields during guidance and counselling hours. Industrial linkage programmes like internship, industrial projects, field trips, and research works are organized. Aptitude Skill Training increases the Reasoning, Data Interpretation, Logical, and Analytical Technical Skills in the students. Skill Development Programmes are also conducted for the benefit of the students.

Best Practice : II

Infuse Innovation Practice Among the Students

Conventional engineering education might not be enough in today's cutthroat job market to guarantee students' overall growth. Students are more prepared to tackle challenges in the real world with fresh and creative solutions after being exposed to research trends.

The Innovation Programme at ACEW includes access to resources that are critical for emerging inventions, as well as a sequence of workshops, seminars, and mentorship sessions. Students are encouraged to create business plans and are exposed to case studies from the real world.

Students and alumni of ACEW have produced a sizable number of student-led start-ups. Students from ACEW have demonstrated their innovative ideas by winning awards in regional and national contests.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	ARUNACHALA COLLEGE OF ENGINEERING FOR WOMEN
Address	Thanka Gardens, Manavilai, Vellichanthai, Nagercoil, Kanyakumari District, Tamil Nadu.
City	Nagercoil
State	Tamil Nadu
Pin	629203
Website	www.arunachalacollege.com

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Joseph Jawhar S	04651-200123	9443418553	04651-200166	acewomenscollege@gmail.com
IQAC / CIQA coordinator	Monikandan A S	04651-200054	9487422330	04651-200166	asmonieeee79@gmail.com

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	For Women
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	

State	University name	Document
Tamil Nadu	Anna University	View Document

Details of UGC recognition		
Under Section	Date	View Document
2f of UGC	13-07-2018	View Document
12B of UGC		

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	10-06-2023	12	

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	Yes
If yes, name of the agency	ISTE New Delhi
Date of recognition	30-11-2019

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Thanka Gardens, Manavilai, Vellichanthai, Nagercoil, Kanyakumari District, Tamil Nadu.	Rural	10.7	19260

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BE,Electrical And Electronics Engineering,Electrical and Electronics Engineering	48	HSC	English	30	21
UG	BE,Computer Science And Engineering,Computer Science and Engineering	48	HSC	English	120	120
UG	BE,Civil Engineering,Civil Engineering	48	HSC	English	30	7
UG	BE,Electronics And Communication Engineering,Electronics and Communication Engineering	48	HSC	English	120	100
UG	BTech,Artificial Intelligence And Data Science,Artificial Intelligence and Data Science	48	HSC	English	90	90
UG	BTech,Information Technology,Information Technology	48	HSC	English	60	54

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PG	ME,Electrical And Electronics Engineering,Power Electronics and Drives	24	B.E	English	24	16
PG	ME,Computer Science And Engineering,Computer Science and Engineering	24	B.E	English	24	8
PG	ME,Civil Engineering,Construction Engineering and Management	24	B.E	English	24	16
PG	ME,Electronics And Communication Engineering,Applied Electronics	24	B.E	English	24	0
PG	ME,Electronics And Communication Engineering,Communication Systems	24	B.E	English	30	8
PG	MBA,Master Of Business Administration,Master of Business Administration	24	Any Degree	English	60	60
Doctoral (Ph.D)	PhD or DPhil ,Electrical And Electronics Engineering,Electrical and	36	Any Degree	English	33	30

	Electronics Engineering					
Doctoral (Ph.D)	PhD or DPhil ,Electronics And Communication Engineering,Electronics and Communication Engineering	36	Any Degree	English	33	8

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	18				11				92			
Recruited	9	9	0	18	3	8	0	11	4	88	0	92
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				38
Recruited	11	27	0	38
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				19
Recruited	4	15	0	19
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/ LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	9	9	0	2	7	0	1	5	0	33
M.Phil.	0	0	0	0	0	0	0	16	0	16
PG	0	0	0	1	1	0	3	67	0	72
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/ LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties					
Number of Visiting/Guest Faculty engaged with the college?	Male		Female		Total
		0	0	0	

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	0	0	0	0	0
	Female	396	1	0	0	397
	Others	0	0	0	0	0
PG	Male	0	0	0	0	0
	Female	108	0	0	0	108
	Others	0	0	0	0	0
Doctoral (Ph.D)	Male	0	0	0	0	0
	Female	38	0	0	0	38
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Category		Year 1	Year 2	Year 3	Year 4
SC	Male	0	0	0	0
	Female	44	46	65	73
	Others	0	0	0	0
ST	Male	0	0	0	0
	Female	1	0	0	0
	Others	0	0	0	0
OBC	Male	0	0	0	0
	Female	1350	1250	1273	1329
	Others	0	0	0	0
General	Male	0	0	0	0
	Female	168	111	108	133
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		1563	1407	1446	1535

Institutional preparedness for NEP

<p>1. Multidisciplinary/interdisciplinary:</p>	<p>ACEW, Manavilai, Vellichanthai offers many streams of programmes and it gains a multidisciplinary status. The programmes offered fall under choice based credit system (CBCS) The courses are Core, Open Elective, Professional Elective, skill based and value based with specific number of credits. Practical learning is incorporated in almost all PG & UG programmes in the form of project, field trips, study tours and internships. Environmental studies is included in the curriculum for all UG Students to teach them the issues that are related to the environment. Courses on Value Education & Professional Ethics are also in the curriculum. The scope of various programmes and</p>
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	<p>the distinct objectives of various courses all contribute to the overall development of the students. The college, being affiliated to the university, follows the guidelines of the University and in this regard the entry level requirement and the length of the programme / course is decided by the University itself. The ability of the college to admit multiple admissions is restricted, as the university sets the rules, approving every programme that the college offers. Students enrolled in research programmes will be encouraged to conduct multidisciplinary research to help find the best solutions to today's issues and challenges. Every programme offers a non-major elective course that allows the students to select a course in a different subject, exposing them to multidisciplinary education.</p>
2. Academic bank of credits (ABC):	<p>Under a set period of time, students enrolled in ACEW's undergraduate and graduate degree programmes may withdraw from and return to the programme. Due to its affiliation, the college's options for applying the ABC system are restricted – Nonetheless, the college will follow the rules that the university has established. So far, the institution has not taken necessary registration process for ABC. The staff are encouraged to offer valuable suggestion in curriculum design and development. The ABC Regulations are designed to facilitate blended learning by enabling students to gain credits from a range of HEIs registered under this scheme and through SWAYAM, an online course. Teachers are always encouraged to experiment with novel approaches that aim to make learning, learner centric. In addition to the required text books and reference materials, the teachers have the liberty to use any other book or resource that contains content linked to the subjects listed in the syllabus.</p>
3. Skill development:	<p>Specialized programmes on soft skill development with subject-matter experts are being conducted. Skill Development courses make students more job-ready by providing them with industry relevant skills. These skills empower individuals to communicate effectively and make sound decisions. Soft skill programmes on Time Management, Problem Solving skills, Managerial Excellence and Communication skills as well as Aptitude training are conducted regularly for the benefit of students. The organization teaches the curriculum and makes several efforts to</p>

	<p>offer value based education as well. Important days and occasions like Republic Day, Independence Day, Gandhi Jayanthi, Voters Day, Environment Day and other important days are observed to promote national integration. Competitions are held on these days to encourage students and cultivate moral values in young people. It is mandatory for all enrolled UG students to become a member of a club or cell, such as the NSS, YRC or RRC . There are organized life skills programmes on Yoga, Meditation, Women’s Safety, Health and Hygiene etc..</p>
<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>India is a cultural gold mine with a long history of producing literary works, artwork, artifacts, historical sites, customs, traditions and language expressions. Languages in particular have an impact on how people within a culture interact with one another. A culture is reflected and recorded in the tone and sense of experience that are inherent in tasks between speakers of the same language. The institution has promoted our country’s culture and heritage ever since it was founded. The college uses English as its primary language of instruction. The institution has also noted the challenges that students experience when using English in the classroom. Taking the socio economic, cultural and linguistic backgrounds of the students into consideration the teachers are also encouraged to go with bilingual method of teaching. Additionally, it was discovered that the bilingual mode of delivery improved the student’s receptive abilities.</p>
<p>5. Focus on Outcome based education (OBE):</p>	<p>Outcome based education is a system that centers around the goals of the course in all of its details and aspects. Students must have acquired the knowledge or skill by the end of the course in order to graduate from it. Learning does not have a set style or time limit. The learner has the freedom to study what they want. Based on the desired results, the instructors, faculty and moderators lead the students. Specific program and course outcomes were provided by the programmes and courses that were outlined in the syllabi. A sufficient representation is made to the affiliated university in the design and development of the curriculum. Our curricula include job seeking courses, project based learning and skill based courses to make the program outcome based. The teaching learning process is more learner centric in the recent times and the institution has witnessed a</p>

	shift from traditional teaching approaches. Internal assessments are used to evaluate students, including group discussions, seminars and assignments.
6. Distance education/online education:	Since the institution is affiliated, regular programs are offered by it. Online or remote learning programmes are not offered. Over the course of its academic history, the college has witnessed a variety of teaching and learning processes. Previously, the most widely utilized method of instruction was 'Chalk and talk'. Due to the recent advancements the system has become 'digital'. ICT is encouraged in the teaching and learning process. The Institution promotes and enhances ICT facilities to meet the current demands. The institution also has utilized blended learning to its fullest potential by combining physical classes with online tests, webinars and Video Lectures. The students are encouraged to complete SWAYAM / NPTEL Courses.

Institutional Initiatives for Electoral Literacy

1. Whether Electoral Literacy Club (ELC) has been set up in the College?	Yes, The college has established an electoral literacy club whose mission is to raise awareness of the value of voting, as well as its operation and participation. In addition, the group organizes human chain rallies, slogan distribution camps, and other activities to raise awareness among local residents, teachers and students. Further more, the club hosts regular meetings in an effort to encourage young minds to cast their vote. Through a range of activities, students also get familiar with the election process, including voter registration and voting.
2. Whether students' co-ordinator and co-ordinating faculty members are appointed by the College and whether the ELCs are functional? Whether the ELCs are representative in character?	The college, which also has its own representatives, has selected students and faculty members to serve as co coordinators. In order to fulfill its responsibilities, this group recruits students to take part in various awareness campaigns. The Chairman, the Department Staff Members, Faculty coordinators, and student representatives are the members.
3. What innovative programmes and initiatives undertaken by the ELCs? These may include voluntary contribution by the students in electoral processes-participation in voter registration of	Every year, the ELC conducts lectures for the first year students to inform their rights and inspire them to exercise those rights by casting vote. This programme helps to educate the students about their

<p>students and communities where they come from, assisting district election administration in conduct of poll, voter awareness campaigns, promotion of ethical voting, enhancing participation of the under privileged sections of society especially transgender, commercial sex workers, disabled persons, senior citizens, etc.</p>	<p>rights and to motivate them to use those rights by voting. Our students have participated in poster making, drawing competitions and essay competitions. The first year students are encouraged to register their names in voter list. They are also encouraged to cast their vote. A demonstration of voting machine was conducted for the benefit of the students.</p>
<p>4. Any socially relevant projects/initiatives taken by College in electoral related issues especially research projects, surveys, awareness drives, creating content, publications highlighting their contribution to advancing democratic values and participation in electoral processes, etc.</p>	<p>Students are urged to raise the necessary awareness in rural areas by organizing rallies and posting appropriate visual signs. There are quiz programmes, competitions like slogan writing, poster creation and drawing. Through special programmes the near by villagers are made aware of their voting right. Some of our staff worked as polling booth officers in the recently conducted election.</p>
<p>5. Extent of students above 18 years who are yet to be enrolled as voters in the electoral roll and efforts by ELCs as well as efforts by the College to institutionalize mechanisms to register eligible students as voters.</p>	<p>The first year students are made aware of the value of voter identity cards, and special camps are organized to assist them in signing up for voter registration. ELC thereby upholds among the youth the democratic values and rights of an Indian citizen.</p>

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
1563	1407	1446	1535	1551

File Description	Document
Upload Supporting Document	View Document
Institutional data in prescribed format	View Document

2 Teachers

2.1

Number of teaching staff / full time teachers during the last five years (Without repeat count):

Response: 154

File Description	Document
Upload Supporting Document	View Document
Institutional data in prescribed format	View Document

2.2

Number of teaching staff / full time teachers year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
121	117	114	119	119

3 Institution

3.1

Expenditure excluding salary component year wise during the last five years (INR in lakhs)

2022-23	2021-22	2020-21	2019-20	2018-19
707.60	405.35	293.65	591.18	672.81

File Description	Document
Upload Supporting Document	View Document

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1

The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

Response:

The College believes in an effective delivery of curriculum and executes according to a predetermined plan that is prescribed by Anna University. The activities are carefully planned to deliver the knowledge and skill sets required for the students to make them industry ready.

Academic Calendar

The College follows the Academic Calendar based on Anna University Academic Schedule. HODs of various department create the Academic Calendar that consists of Department events, Internal Assessment, Holidays, Curricular and co-curricular activities. They circulate the Academic Calendar to the faculty for their review in completing syllabus and to plan their department activities.

Subject Allocation

The faculty members will be asked to choose the subjects that they are willing to handle and the same shall be forwarded to their respective department HODs as this ensures better academic outcome. All the HODs allocate the subjects based on willingness, experience and their specialization.

Time Table

The College constitutes Time Table co-ordinator for each department. They prepare Time table for their respective department based on the number of credits to the subjects in Anna University prescribed syllabus for affiliated colleges. This time table is circulated to the faculty and the students and also displayed on the notice board of each department.

Lesson Plan & Syllabus Coverages

Lesson Plan is prepared by all the faculty at the beginning of each semester with the help of Academic Calendar and Time table. It also includes syllabus coverage with proposed date and Assignment plan. Faculty members also prepare lab manual based on the curriculum for Laboratory sessions.

Learning Material

Each faculty provides study materials, notes and question banks in the class. They also add more number of 2 mark questions and 16 mark questions from each unit for the understanding of subjects. Moreover, they suggest to use the website link for further reference.

Assessment Schedule

The Institution conducts Internal Assessment and model exam for each department. The scheduled time table of the exam is circulated to the students in advance. This helps the students to focus on their subjects and to prepare well before the semester examination.

Assessment Question Paper

Two sets of question papers are prepared according to Bloom's Taxonomy. The question papers are printed before the day of examination. The questions are verified by the concerned HOD and directed to the exam cell after getting approval by the Principal. After the completion of exam, the concerned faculty evaluate the answer scripts within 3 days and distribute it to the students for clarification. Also, they enter the marks in the exam cell system.

Class Committee Meeting

The class committee comprises of students representing various categories like the fast learners, slow learners, class handling Faculty Members and HOD. The main objective of the meeting is to discuss the academic progress of the students, improvement required in the teaching learning practices and classroom facilities.

Mentoring Programme

The mentors of each department provide guidance and support to each student especially the students who are slow learners. These mentors offer advice to the students who face problems in personal and academic side. They also help the students take decisions at each and every stage of their academic and professional quest.

File Description	Document
Upload Additional information	View Document

1.2 Academic Flexibility**1.2.1**

Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)

Response: 28

File Description	Document
List of students and the attendance sheet for the above mentioned programs	View Document
Institutional programme brochure/notice for Certificate/Value added programs with course modules and outcomes	View Document
Institutional data in the prescribed format	View Document
Evidence of course completion, like course completion certificate etc. Apart from the above:	View Document

Other Upload Files

1

[View Document](#)

1.2.2

Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

Response: 41.78

1.2.2.1 Number of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
546	732	789	488	579

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.3 Curriculum Enrichment

1.3.1

Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability in transacting the Curriculum

Response:

Arunachala College of Engineering for Women demonstrates its unwavering commitment to fostering a holistic learning environment by seamlessly integrating cross-cutting issues such as professional ethics, gender equity, human values, and environmental sustainability into its curriculum and extracurricular activities. This multifaceted approach ensures that students were not only equipped with academic knowledge but also imbued with the values and perspectives necessary to navigate a complex and interconnected world.

Students enrolled in various Engineering Programmes have the opportunity to study these Courses in the fields such as Environmental Science and Engineering, Disaster Management, Human Rights, Intellectual Property Rights, Principles of Management, Total Quality Management, Professional Ethics and Renewable Energy Sources that are relevant to these Cross-cutting issues.

Our Institution is a women's Institution and has a number of Student Organizations that provide sufficient opportunities, through which the students socialize, demonstrate their Skills and knowledge obtained through Academics and participate in extracurricular activities that benefit the community through National Service Scheme (NSS). Our Institution celebrates 'Women's Day' to emphasise the need for promoting Women's Empowerment.

Professional Ethics and Human Values

The college places a strong emphasis on cultivating professional ethics and human values, recognizing their significance in shaping responsible and well-rounded individuals.

Students who study the Course 'Professional Ethics' understand the importance of being ethical in their Professional Career which is considered to be a very important attitude of any Engineer in the Society. The course, 'Principles of Management' covers details about various Planning Tools and Organization Models. The Students who study the course learn about the latest methods used in Industries and Organizations for the better management of the Human resources.

A few Courses in the Curriculum give opportunity for the Students to prepare themselves for the constantly shifting demands of Society and livelihood. For example, the Course on "Disaster Management" offered for the Students of Civil Engineering Department is much relevant to Human Values. Students are able to understand the value of Human Life during the times of Natural Disasters, and they learn about the relationship between disasters and progress. Universal human values training is given to students by our trained faculty members.

Environment and Sustainability:

The course, 'Environmental Science and Engineering' highlights the importance of preserving the environment and gives details about environment degradation and pollution. This Course also provides ample information about Environmental Sustainability. Students who are studying this course understand that sustainable development is the need of the hour. Also, they get to know about the different solutions to Environmental issues that the society faces currently and in the future.

Gender Equality

Women empowerment cell is established to uplift the women's self-confidence inside the campus. The cell conducts various programmes by inviting successful women from the society. The cell organizes

various awareness programmes on Gender sensitization to spread awareness about women empowerment and sets a platform to realize the rights of women.

File Description	Document
Upload Additional information	View Document

1.3.2

Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

Response: 26.62

1.3.2.1 Number of students undertaking project work/field work / internships

Response: 416

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.4 Feedback System

1.4.1

Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website

Response: A. Feedback collected, analysed, action taken& communicated to the relevant bodies and feedback hosted on the institutional website

File Description	Document
Feedback analysis report submitted to appropriate bodies	View Document
At least 4 filled-in feedback form from different stake holders like Students, Teachers, Employers, Alumni etc.	View Document
Action taken report on the feedback analysis	View Document
Link of institution's website where comprehensive feedback, its analytics and action taken report are hosted	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1

Enrolment percentage

Response: 66.41

2.1.1.1 Number of seats filled year wise during last five years (Only first year admissions to be considered)

2022-23	2021-22	2020-21	2019-20	2018-19
515	449	295	420	413

2.1.1.2 Number of sanctioned seats year wise during last five years

2022-23	2021-22	2020-21	2019-20	2018-19
666	666	606	606	606

File Description

Document

Institutional data in the prescribed format

[View Document](#)

Final admission list as published by the HEI and endorsed by the competent authority

[View Document](#)

Document related to sanction of intake from affiliating University/ Government/statutory body for first year's students only.

[View Document](#)

2.1.2

Percentage of seats filled against reserved categories (SC, ST, OBC etc.) as per applicable reservation policy for the first year admission during the last five years

Response: 65.13

2.1.2.1 Number of actual students admitted from the reserved categories year wise during last five years (Exclusive of supernumerary seats)

2022-23	2021-22	2020-21	2019-20	2018-19
307	304	234	280	302

2.1.2.2 Number of seats earmarked for reserved category as per GOI/ State Govt rule year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
464	464	421	421	421

File Description	Document
Institutional data in the prescribed format	View Document
Final admission list indicating the category as published by the HEI and endorsed by the competent authority.	View Document
Copy of communication issued by state govt. or Central Government indicating the reserved categories(SC,ST,OBC,Divyangjan,etc.) to be considered as per the state rule (Translated copy in English to be provided as applicable)	View Document

2.2 Student Teacher Ratio

2.2.1

**Student – Full time Teacher Ratio
(Data for the latest completed academic year)**

Response: 12.92

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 and teachers use ICT- enabled tools including online resources for effective teaching and learning process

Response:

Our institution concentrates on student-centric learning process. The syllabus prescribed by the Anna University is covered through conventional class room teaching –learning process. Also Basic engineering principles are explained through digital platforms. In-addition to this, students are encouraged to develop their ideas into mini-project and innovative projects. Experiential learning is provided through various activities, including hands-on training, field trips, simulations, and role-playing exercises.

The following are the **experiential learning** methods used by our institution.

Practical Courses- Students are allowed to spend more time on their laboratories. They are trained to enhance their subjects with hands-on experience in all courses to validate their theoretical knowledge.

Internships and In-Plant training- Every year, each department arranges Industrial Visits, Internships and Inplant-Training in the best industries to familiarize students with the industrial work. As per the regulation, each student must complete Industrial Training or Internships for a minimum period of four weeks, which is for second year and third year students.

Industrial Visits/Tours- Faculty members arrange industrial visits/tours for the students every year.

The following ways offer participative learning

Active Learning- Active learning methods like role play, group discussion, problem-solving, and case studies are suitably identified based on course content and are practiced in the classroom.

Blended Learning- Faculty members share the lecture materials, conduct assignments, collect feedback and survey about the teaching method and attainment of course outcome through GOOGLE CLASSROOM platform.

Seminar/Conference/Symposia- Students are motivated to participate in seminars, conferences, and symposia organized by various students associations and other clubs on the campus and off- the campus.

Problem-solving methodologies offered in Institution

Case study- All faculty members link real-life problems with their course and solve the problem by applying the engineering concepts.

Problem-solving through Project-based learning- A team of maximum four members of sixth semester and eighth semester students are assigned to each faculty member (as supervisor) to carry out Mini and Major project works in their areas of interest. The seventh semester students of 2022-2023 participated in the NAALAYA THIRAN programme as part of their curriculum funded by Government of Tamil Nadu.

Engaging in research-oriented projects- Students are made to actively involve in research-oriented projects with faculty members and publish papers in Conferences, Symposium and also in Scopus and UGC care journals.

ICT enabled tools used in teaching and learning process.

Each department has one smart classroom, provided with LCD projector, a computer with internet connection and smart board. Workshops and guest lectures are conducted periodically here for effective learning. Staff members use the smart class room to take lectures with the help of photos, maps, graphs, flowcharts and animated videos.

NPTEL Video lectures and many other renowned educational websites are available in offline in the college library and could be accessed by the students.

ICT in Library & Laboratory

The Central Library provides excellent facilities for all the students and faculty members, such as sufficient books and journals, proper seating and reading facility, proper classification and arrangement of books, attractive modern building with high-speed Wi-Fi connectivity, online journals and Institutional members of DELNET. E-journals can be accessed in our digital library.

File Description	Document
Upload Additional information	View Document

2.4 Teacher Profile and Quality

2.4.1

Percentage of full-time teachers against sanctioned posts during the last five years

Response: 100

2.4.1.1 Number of sanctioned posts year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
121	117	114	119	119

File Description	Document
Sanction letters indicating number of posts sanctioned by the competent authority (including Management sanctioned posts)	View Document

2.4.2

Percentage of full time teachers with NET/SET/SLET/ Ph. D./D.Sc. / D.Litt./L.L.D. during the last five years (consider only highest degree for count)

Response: 19.66

2.4.2.1 Number of full time teachers with NET/SET/SLET/Ph. D./ D.Sc. / D.Litt./L.L.D year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
35	32	21	15	13

File Description	Document
List of faculties having Ph. D. / D.Sc. / D.Litt./ L.L.D along with particulars of degree awarding university, subject and the year of award per academic year.	View Document
Institution data in the prescribed format	View Document
Copies of Ph.D./D.Sc / D.Litt./ L.L.D awarded by UGC recognized universities	View Document

2.5 Evaluation Process and Reforms

2.5.1

Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient

Response:

The academic calendar is prepared for every semester in line with the University calendar, which provides the information on scheduled timetables for internal assessments, model examinations and the tentative schedule of University practical and theory examinations. The Institution strictly follows the evaluation procedure prescribed by the affiliating University. As per the guidelines of University, it is mandatory to conduct internal tests thrice in each semester for regulation 2017 and twice in each semester for regulation 2021 and the internal marks obtained are to be entered in the web portal of the university within the stipulated time.

The Institute circulates the university circulars/notifications, the evaluation process and all the academic related documents published in the university.

Student performance is evaluated with continuous assessment and end semester assessment.

Schedule and syllabus of internal examination and end semester examination and assignment are communicated to students well in advance.

The internal examinations are conducted within the scheduled date.

The question paper pattern for the internal examination has been standardized by the institution with the help of IQAC.

Question papers are set based on Course outcomes and Program Outcome

Internal test answer scripts are returned to students within 3 days from the exam date.

The Assessment marks of the students are updated in the course note.

Retests are conducted for students who fail to attend any one of the internal exams.

The academic performance and attendance of each student is maintained and recorded in respective Departments.

Internal assessment is also done for the laboratory courses.

The marks/grade scored by the student for each experiment is indicated in the observation/record.

Mechanism to deal with internal/external examination related grievances is transparent, time bound and efficient

Internal Examinations:

There is complete transparency in the internal assessment.

After the completion of the internal assessment tests, the marks are published in the Department notice board.

University Examinations:

Students can apply for revaluation by following the procedure given by the University.

Re-evaluation:

First, student has to apply for the photocopy of the answer paper. After receiving the photocopy of the answer paper it has to be evaluated by the concerned staff members. If the student is eligible to score pass marks or improvement in marks, then the student has to apply for revaluation. The results of revaluation will be announced by the University.

Challenge Evaluation:

Students will get one-week period to challenge the evaluation, if they are not satisfied with the revaluation results by paying suitable fee. If they pass in the challenge evaluation, the amount will be refunded by the University.

File Description	Document
Upload Additional information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1

Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website

Response:

The goals of Outcome Based Education (OBE) are discussed with all the faculty members. On implementation of this OBE concept, all the departments / Programmes of this institution have defined their Vision, Mission statements, through systematic processes. Individual Programmes have their own Program Specific Outcomes (PSOs) & Program Educational Objectives (PEOs). The faculty member handling the particular theory / lab course defines the Course Outcome for the subject concerned with the help of the necessary sources.

PEOs are broad statements that describe the graduates' career accomplishment after 3 to 5 years of graduation. POs are aligned with the Graduate Attributes defined by NBA. PSOs are specific and relevant to a particular program. COs are direct statements drafted for every course that describe the competencies gained by the student through the course.

Communication to the Students

The Vision, Mission, POs, PSOs, PEOs are displayed in the college website, main corridors, laboratories, class rooms, auditorium and other important areas of the campus. Also, it is printed in the observation, record notebooks and news letters of the departments. The HOD and faculty members host awareness programmes about COs, POs, PSOs and PEOs among the students in the class committee meetings. Staff advisors of each class also explain about the COs, POs, PSOs and PEOs to the students and about attaining the program outcome.

Communication to the Staff

The Vision, Mission are explained to the staff through the meetings conducted by the Principal and the Heads of the department.

The HODs of all the Departments verify the University website for any modifications in the syllabus and curriculum at the beginning of every semester. Courses are allotted to the faculties based on their expertise and areas of interest. Course Objectives and Course Outcomes are framed by the concerned faculty in discussion with subject expert and are included in the course files. At the end of each semester faculty members calculate the CO attainment and the corresponding PO attainment. The Principal conducts periodical meetings with the Heads of the Department to verify the effective implementation of PEOs, PSOs & COs to attain POs.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6.2

Attainment of POs and COs are evaluated.

Explain with evidence in a maximum of 500 words

Response:

Each Course should have a set of Course Objectives, which describe what the teacher intends to teach and is written from the teacher's perspective. Course Outcomes are comprehensive sets of statements that the students will be able to accomplish after the successful learning. Course Objectives and Course Outcomes are to be framed by each teacher, at the beginning of the course and also they mark the correlation of CO with POs and PSOs. The CO assessment for each course is done by individual faculty member at the end of the semester. The assessment process has the following two methods:

I. Direct Assessment Method

II. Indirect Assessment Method

I. Direct Assessment Method

1. Theory Course : Internal exam 20% weightage, Assignment 10% weightage, University exam 60% weightage and End survey 10% weightage.

2. Laboratory Course : Internal exam 30% weightage, University exam 60% weightage and End survey 10% Weightage

3. Project Work : Internal exam 30% weightage, University exam 60% weightage and End survey 10% Weightage

The bench mark and the attainment level will be fixed by the concerned department in association with IQAC. The Overall weightage for direct assessment is 80%.

CO attainment of theory course is calculated by

$(0.2 \times \text{level of attainment of internal exam} + 0.1 \times \text{level of attainment of assignment} + 0.6 \times \text{level of attainment of university exam}) + 0.1 \times \text{level of attainment of end survey}.$

CO attainment of laboratory course is calculated by

$(0.3 \times \text{level of attainment of internal exam} + 0.6 \times \text{level of attainment of university exam}) + 0.1 \times \text{level of attainment of end survey}.$

CO attainment of practical course is calculated by

$(0.3 \times \text{level of attainment of internal exam} + 0.6 \times \text{level of attainment of university exam}) + 0.1 \times \text{level of attainment of end survey}$.

PO Attainment = [CO Vs PO Average x CO attainment] / Maximum attainment

From the COs attainment POs, PSOs attainment for the direct assessment is calculated.

II. Indirect Assessment Method

Indirect attainment is evaluated from Alumni, Employer and Program Exit Surveys. The POs and PSOs are provided as questionnaires to the outgoing students, alumni and employers by giving 5 grade points as Excellent – 5, Very Good -4, Good – 3, and Satisfactory -1. From the three surveys, POs and PSOs are calculated. The Overall weightage for the indirect assessment is 20%. From the direct and indirect attainment values final POs and PSOs attainment are calculated.

File Description	Document
Upload Additional information	View Document

2.6.3

Pass percentage of Students during last five years (excluding backlog students)

Response: 98.82

2.6.3.1 Number of final year students who passed the university examination year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
470	340	476	384	415

2.6.3.2 Number of final year students who appeared for the university examination year-wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
475	346	476	384	429

File Description	Document
Institutional data in the prescribed format	View Document
Certified report from Controller Examination of the affiliating university indicating pass percentage of students of the final year (final semester) eligible for the degree programwise / year-wise.	View Document
Annual report of controller of Examinations(COE) highlighting the pass percentage of final year students	View Document

2.7 Student Satisfaction Survey

2.7.1

Online student satisfaction survey regarding teaching learning process

Response: 3.99

File Description	Document
Upload database of all students on roll as per data template	View Document

Criterion 3 - 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 last five years (INR in Lakhs)

Response: 12.92

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

2022-23	2021-22	2020-21	2019-20	2018-19
4.27	4.831	2.125	1.14	0.55

File Description

Document

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

3.2 Innovation Ecosystem

3.2.1

Institution has created an ecosystem for innovations, Indian Knowledge System (IKS), including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident

Response:

To encourage research and innovation among faculty and students, Arunachala College of Engineering for Women established the Research & Development Cell, Innovation Cell, the Intellectual Property Rights Cell, and the Entrepreneurship Development Cell.

Research Innovation Cell: The Research & Development Cell Coordinator monitors events and activities pertaining to research. The R&D Cell has organized guest lectures & Seminars to promote Research Culture and Innovation. Group projects and summer projects are given to students to improve their critical thinking and creativity. The students are encouraged to take projects related to environment and society and to give their suggestions. Students and Members of Faculty are motivated to participate and present papers in International Conferences and Seminars. Memorandum of Understandings (MoUs) with various industries and organizations for Collaboration and Consultancy Projects, Knowledge Exchange Programmes, Faculty– exchange and student exchange programmes were made so that they

create and transfer knowledge to meet the needs of the society. Students present their innovative ideas in various hackathon and won prizes and recognition.

Intellectual Property Rights (IPR): The IPR Cell teaches faculty and students about intellectual property rights, such as patents, copy rights, trademarks, and trade secrets, through awareness programmes. The IPR cell supports the documentation and submission of copyrights and patents for innovative ideas. Our faculty are encouraged to attend the seminars, FDPs / Workshops on IPR with the required financial support.

Entrepreneurship Development Cell (EDC): Students who are interested in starting their own businesses are identified by the Entrepreneurship Development Cell (EDC), which also motivates and provides them with start-up guidance. ACEW has organised numerous skill development programmes aimed at fostering entrepreneurship among the students.

The EDC of ACEW frequently executes development programmes to improve students' knowledge, creative thinking and product development and to convert these ideas into new products. Some of our Alumni are successful Entrepreneurs.

Research Centre:

The Electrical and Electronics Engineering Department and the Electronics and Communication Engineering Department of ACEW are acknowledged as research centers by Anna University Chennai. Numerous creative research projects are underway through the research centers, and as a result, 33 Ph.D. Scholars have finished their studies and published their findings in SCI Journals. Some of the innovative work done by our students and faculties are patented.

Indian Knowledge System:

The Indian Knowledge System (IKS) championed by the government embodies a holistic and culturally rooted approach to education. We are conducting programmes related to IKS in the campus to gain traditional knowledge in all the engineering fields.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.2.2

Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years

Response: 50

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

last five years

2022-23	2021-22	2020-21	2019-20	2018-19
15	11	8	8	8

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.3 Research Publications and Awards**3.3.1**

Number of research papers published per teacher in the Journals notified on UGC care list during the last five years

Response: 0.58

3.3.1.1 Number of research papers in the Journals notified on UGC CARE list year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
27	19	12	15	17

File Description	Document
Link to the uploaded papers, the first page/full paper(with author and affiliation details)on the institutional website	View Document
Link to re-directing to journal source-cite website in case of digital journals	View Document
Links to the papers published in journals listed in UGC CARE list or	View Document
Institutional data in the prescribed format	View Document

3.3.2

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

national/ international conference proceedings per teacher during last five years**Response:** 0.53**3.3.2.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
6	9	12	47	8

File Description	Document
List of chapter/book along with the links redirecting to the source website	View Document
Institutional data in the prescribed format	View Document
Copy of the Cover page, content page and first page of the publication indicating ISBN number and year of publication for books/chapters	View Document

3.4 Extension Activities**3.4.1****Outcomes of Extension activities in the neighborhood community in terms of impact and sensitizing the students to social issues for their holistic development during the last five years.****Response:**

Arunachala College of Engineering for Women (ACEW) places a substantial emphasis on community engagement, conducting regular extension activities to establish a strong connection with the community.

Extension activities through NSS & YRC

The NSS unit helps the students to serve the society and work for the social upliftment of our nation as a movement. The initiatives taken by the unit are structured to raise students' awareness of community needs and encourage their active involvement in social service, thereby promoting their holistic development. The National Service Scheme (NSS) and Youth Red Cross (YRC) provide students with opportunities to engage in community-based outreach activities.

The NSS & YRC unit of our Institution conduct lot of social relevant programmes like Environmental Awareness, Road Safety, Mass cleaning programme, Tree Plantation, Plastic Eradication, organizing Visit to Old Age Home, Blood Donation Camps, etc. This joint venture encourages and facilitates the various extension programme conducted in and around the campus.

Notable Extension Activities

1. ACEW NSS team has participated in several outreach initiatives and established itself as a social responsibility role model for its students. The celebration of Republic Day, and Independence Day have made them patriotic. National Youth Day, World Environment Day. International Yoga Day and International Women's Day are celebrated to raise students' awareness of social and environmental issues.
2. Seminars and awareness campaigns are arranged on topics such as women's rights, environmental sustainability and the use of renewable resources.
3. Blood donation camp organized by NSS strengthens the sense of empathy and compassion among donors and also instil in them a sense of commitment and ethical responsibility.
4. Medical Camp organized by NSS for the nearby areas helped the local community.
5. Students are taken for old age home visits and orphanage visits to make them understand the needs of the inmates and show them love and care.
6. Vaccination Camp, during the course of Covid-19 helped the public to protect from the pandemic.
7. Awareness rallies on Road Safety, Child Abuse, Plastic Awareness were conducted for the benefit of the society.
8. Road safety and helmet awareness programme made awareness among the public to avoid accidents.
9. Tree plantation programme organised by the NSS unit helped the society to have a green environment.

All these extension activities help the students to be a part of the NSS unit and also it motivates them to serve the society as well as the underprivileged communities. All these initiatives have gone a long way in holistic development personality of the students.

File Description	Document
Upload Additional information	View Document

3.4.2**Awards and recognitions received for extension activities from government / government recognised bodies****Response:**

ACEW places a strong emphasis on Community participation and frequently hosts outreach events to deepen links with the neighbourhood. The exercises raise Students' awareness of local issues and promote volunteerism, which fosters their growth and all around development. Students can participate

in the Communicate Service Projects through the National Service Scheme (NSS). During the last five Academic Years, Faculty members and Students of the Institution have donated blood to the needy.

In order to foster comprehensive development and long-term advancement, the College encourages Faculty, Students and Staff interaction with the Community. The College has been consistently interacted with the Society, especially to make awareness about Hazardous effect of plastic usage, Waste Management, Solar Energy, Current Technologies, Cancer Awareness, Energy Management, Covid-19 Precautions, Global Warming and Importance of Voting. The programmes encourage volunteers to take part in Community based activities with the goal of fostering responsibility and a sense of Service. The Programme fosters a closer bond with the Community and instills Social Responsibility, Morals and Ethical principles.

The Institution has received Awards and Recognition for its involvement in extension activities from State Government and Government Recognized Bodies.

Tamilnadu State Government Panchayat, Ganapathipuram recognized the following programmes conducted by our college.

Awareness on Dengue Fever and Waste Management, Mass Cleaning Programme, Tree Plantation.

Tamilnadu State Government Panchayat, Vellichanthai recognized the programmes including Awareness on Swatchh Bharat Abhiyan, Distribution of Mask, Mega Tree Plantation Programme, Mass Cleaning at Muttom Beach, Awareness on Dengue Fever and Blood Donation Camp.

Government recognized Thottam Educational and Charitable Trust appreciated the following programmes. Temple Cleaning programme, Spiritual and Mental Health Awareness, Swatchh Bharat Village Cleaning Process, Covid – 19 Vaccination Camp, Issuing of mask to public, Awareness on Energy Management, Blood Donation Camp, Mega Tree Plantation Programme, Awareness on Global Warming, Health Camp at Alloor Village.

Government recognized Er.John Educational & Charitable Trust acknowledged the following programmes. Mass Cleaning Programme, Awareness on Hazardous of plastic usage, Solar Energy, Awareness on current technologies, Awareness on Cancer to public around, Health camp, Covid – 19 precautions, Mega tree plantation, AIDS Awareness programme, Awareness on Dengue fever.

File Description	Document
Upload Additional information	View Document

3.4.3

Number of extension and outreach programs conducted by the institution through organized forums including NSS/NCC with involvement of community during the last five years.

Response: 43

3.4.3.1 Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC etc., year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
9	8	9	9	8

File Description	Document
Photographs and any other supporting document of relevance should have proper captions and dates.	View Document
Institutional data in the prescribed format	View Document
Detailed report for each extension and outreach program to be made available, with specific mention of number of students participated and the details of the collaborating agency	View Document

3.5 Collaboration

3.5.1

Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.

Response: 46

File Description	Document
Summary of the functional MoUs/linkage/collaboration indicating start date, end date, nature of collaboration etc.	View Document
List of year wise activities and exchange should be provided	View Document
List and Copies of documents indicating the functional MoUs/linkage/collaborations activity-wise and year-wise	View Document
Institutional data in the prescribed format	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1

The Institution has adequate infrastructure and other facilities for,

- **teaching – learning, viz., classrooms, laboratories, computing equipment etc**
- **ICT – enabled facilities such as smart class, LMS etc.**

Facilities for Cultural and sports activities, yoga centre, games (indoor and outdoor), Gymnasium, auditorium etc (Describe the adequacy of facilities in maximum of 500 words.)

Response:

Arunachala College of Engineering for Women sits on 10.07 acre land with a built up area of 19,260 Square meters. The institution has sufficient infrastructure and physical facilities to facilitate students to innovate, impart team spirit and have competence to enable them to face the global challenges and become contributing members of modern society. The college firmly believes that the essential and adequate infrastructure facilities will afford ample opportunities for both the faculty and the students' academic growth and development. The available facilities are more surplus than the requirement prescribed by the AICTE and Anna University.

Laboratory:

The institute houses 26 teaching-learning laboratories, including 2 research labs, equipped with cutting-edge facilities conforming to AICTE and Anna University standards. All laboratories spotlight the students on the latest research and advancements. The computing facilities of the college cater to the needs of faculty and students to foster an effective Teaching Learning Process.

ICT Facilities:

The institution maintains a commendable student-to-computer ratio of 3.91:1, exceeding the recommended standard. To ensure uninterrupted internet services, the college has established 300 Mbps dedicated leased line connectivity. Demonstrating a commitment to contemporary ICT tools, the college embraces innovative teaching techniques, such as utilization of LCD projectors and hybrid classrooms, fostering an advanced and dynamic environment.

Central library:

The central library with an area of 1274 square meters with a seating capacity of 160 is maintained. The digital library is equipped with personal computers which are connected with Wi-Fi and LAN for fast and seamless access of the internet for streaming NPTEL lectures and using e-resources for the benefit of its users.

Sports:

The college promotes sports and games, providing outdoor and indoor facilities. Students have participated in various sports events and earned accolades. To ensure a sound body and mind, special attention, is given to student's health and fitness. A modern gym with all the latest state-of-the-art equipment has been set up in the ladies' hostel. Regular physical activities can help to prevent or manage a wide range of health problems and concerns. The campus observes International Yoga Day annually.

Cultural Activities:

Cultural activities thrive through clubs, societies, annual events and celebrations of national, international, and religious occasions. An open-air auditorium is available for outdoor programmes and functions.

Other amenities:

The campus offers additional facilities such as drinking water on each floor, barrier-free mobility features, hostel for girls, college bus transportation, 24x7 security, vehicle parking, fire safety equipment and RO water plant. It boasts meticulously manicured lawns and gardens, creating an inviting and scenic atmosphere. In prioritizing student well-being, a healthcare centre with readily available first-aid services is on hand. Additionally, CCTV surveillance is strategically placed throughout the campus to ensure safety and security.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.1.2

Percentage of expenditure for infrastructure development and augmentation excluding salary during the last five years

Response: 26.94

4.1.2.1 Expenditure for infrastructure development and augmentation, excluding salary year wise during last five years (INR in lakhs)

2022-23	2021-22	2020-21	2019-20	2018-19
201.71	104.44	76.6	112.81	223.83

File Description	Document
Institutional data in the prescribed format	View Document
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for infrastructure augmentation should be clearly highlighted)	View Document

4.2 Library as a Learning Resource

4.2.1

Library is automated with digital facilities using Integrated Library Management System (ILMS), adequate subscriptions to e-resources and journals are made. The library is optimally used by the faculty and students

Response:

ACEW's central library stands as a beacon of knowledge, occupying an expansive space of 1274 square meters adorned with modern amenities and an extensive array of resources supporting to the academic pursuits of its students and faculty. A separate library is designated to cater to the academic requirements of the MBA department. The Library consists of traditional books, e-books, e-journals, CD-ROMs, theses, and more, covering a wide spectrum of disciplines including Engineering & Technology, Science and Humanities, and Management. The Library has an impressive collection of books comprising more than 19,000 books across 5080 titles, 284 journals, 20,000 e-journals, complemented by 2000 e-books, national and international journals, and newspapers. The ACEW library stands as a bastion of intellectual exploration and scholarly pursuit. The MBA department's library has 1800 books, 40 journals, 1800 e-journals and 1200 e-books. Also, a department library is maintained in all the departments.

The architectural layout of the library is designed for optimal functionality, with two floors dedicated to serving the diverse needs of its patrons. One floor is meticulously organized to house and facilitate the circulation of books, while the other provides a tranquil reading environment equipped with seating capacity for up to 160 individuals along with the e-library section. The central library is well equipped with digital library and audio visual room.

Integrated Library Management System (ILMS)- Library Automation

The core of the library's efficiency is its Integrated Library Management System (ILMS), a software tool that revolutionizes how resources are handled and accessed. ILMS is designed to offer various features to improve accessibility for both library staff and users.

One of the standout features of ILMS is its integration of barcode scanning technology, which streamlines the process of book circulation by automating check-in and check-out procedures. Each book within the library's collection is equipped with a unique barcode, enabling accurate tracking of its movement. Users can easily ascertain the availability of resources through ILMS's intuitive search functionality or by perusing the organized book racks. Moreover, ILMS facilitates the seamless

borrowing and renewal of books through user-friendly student login portals.

An Online Public Access Catalogue (OPAC) serves as a digital gateway to a library's vast collection of resources, offering users a convenient platform to search for books, journals, multimedia materials, and more using OPAC. Users can effortlessly navigate through the catalogue using keywords, titles, authors, or subjects to locate specific items of interest. OPACs also streamline the borrowing process by indicating the availability of items and allowing users to manage their accounts.

The library's digital repository encompasses a wealth of electronic resources, including e-journals, e-books, student project reports, theses, and publications. Additionally, users have access to e-learning resources such as NPTEL lectures and SWAYAM courses.

Faculty and Students Usage:

Students visit the Library within the hours specified in their timetable. Students can take 3 books and faculty members can borrow 5 books. The average footfall per day is around 500.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.3 IT Infrastructure

4.3.1

Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection

Describe IT facilities including Wi-Fi with date and nature of updation, available internet bandwidth within a maximum of 500 words

Response:

Arunachala College of Engineering for Women (ACEW) gives a high priority on providing exceptional computing resources to both students and faculty. The campus is equipped with the latest technology, including high speed internet and Wi-Fi, a robust Learning Management System (ERP), and essential accessories for advanced learning. Our commitment to safety and security, along with a focus on acquiring necessary software and hardware, ensures that students have access to the tools they need to excel in their studies.

Computing Facilities:

Our campus is well-equipped with 400 computer systems for student usage, featuring the latest processors with i3, RAM 8GB, Hard disk 120 SSD, Processor i3, RAM 4GB, Hard disk 500 GB, and

Processor i5, RAM 16 GB, Hard disk 120 SSD, 1 TB HDD Intel Dual core Processor @ 3.30 GHZ, memory. Additionally, high-speed Wi-Fi and Internet services are accessible to all stake holders. There are two servers maintained in the server room for providing network connectivity in the campus.

Internet Facilities:

The College has a very good internet facility. Internet accessibility is provided via a dedicated 300 Mbps leased line from AT broadband. Internet services are available 24 x 7 which provides all the required resources. The institution has established a local area network with network points in all departments, library, laboratories and hostel. Wi-Fi routers are provided at various points to provide internet access for all the students and the staff. Research laboratories are available for the ECE and EEE departments to facilitate research and development.

Learning Management System:

To facilitate efficient management of attendance, class notes, assignments, and communication, we employ an ERP as our Learning Management System. Google Meets are conducted by the faculties to give notes and seminars. The institution fosters a supportive IT atmosphere for NPTEL learning, value-added courses, and various placement training programmes. The college website provides all information for the stakeholders. Training programmes are conducted to upgrade the skills of the students.

ICT Facilities:

Faculty are encouraged to use ICT facilities for better visualization and delivery of the subject. Also, the students are supported by the faculty to present their seminar topics using the ICT facilities. All departmental faculty rooms and offices are provided with internet facilities. All class rooms, a seminar hall, five conference halls and one GD hall are equipped with LCD projectors.

Licenses, software, and updating the IT facilities:

ACEW updates the number of systems in its laboratories to accommodate the gradual increase in student intake. Regular purchases of necessary software, hardware devices, computer systems, and peripheral devices are made to meet the requirements. Sufficient licenses are obtained according to the curriculum, and the college promotes the use of open-source software whenever possible.

File Description	Document
Upload Additional information	View Document

4.3.2

Student – Computer ratio (Data for the latest completed academic year)

Response: 3.91

4.3.2.1 Number of computers available for students usage during the latest completed academic

year:

Response: 400

File Description	Document
Purchased Bills/Copies highlighting the number of computers purchased	View Document
Extracts stock register/ highlighting the computers issued to respective departments for student's usage.	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1

Percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, during the last five years (INR in Lakhs)

Response: 7.87

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

2022-23	2021-22	2020-21	2019-20	2018-19
71.02	23.16	15.27	44.82	55.79

File Description	Document
Institutional data in the prescribed format	View Document
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for maintenance of infrastructure should be clearly highlighted)	View Document

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1

Percentage of students benefited by scholarships and freeships provided by the institution, government and non-government bodies, industries, individuals, philanthropists during the last five years

Response: 72.07

5.1.1.1 Number of students benefited by scholarships and freeships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
1020	980	1132	1086	1189

File Description

Document

Year-wise list of beneficiary students in each scheme duly signed by the competent authority.

[View Document](#)

Upload Sanction letter of scholarship and free ships (along with English translated version if it is in regional language).

[View Document](#)

Upload policy document of the HEI for award of scholarship and freeships.

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

Provide Links for any other relevant document to support the claim (if any)

[View Document](#)

5.1.2

Following capacity development and skills enhancement activities are organised for improving students' capability

- 1. Soft skills*
- 2. Language and communication skills*
- 3. Life skills (Yoga, physical fitness, health and hygiene)*
- 4. ICT/computing skills*

Response: A. All of the above

File Description	Document
Report with photographs on Programmes /activities conducted to enhance soft skills, Language and communication skills, and Life skills (Yoga, physical fitness, health and hygiene, self-employment and entrepreneurial skills)	View Document
Report with photographs on ICT/computing skills enhancement programs	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.1.3

Percentage of students benefitted by guidance for competitive examinations and career counseling offered by the Institution during the last five years

Response: 67.94

5.1.3.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

2022-23	2021-22	2020-21	2019-20	2018-19
934	927	1150	1018	1068

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.1.4

The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases

- 1.Implementation of guidelines of statutory/regulatory bodies**
- 2.Organisation wide awareness and undertakings on policies with zero tolerance**
- 3.Mechanisms for submission of online/offline students' grievances**
- 4.Timely redressal of the grievances through appropriate committees**

Response: B. 3 of the above

File Description	Document
Proof w.r.t Organisation wide awareness and undertakings on policies with zero tolerance	View Document
Proof related to Mechanisms for submission of online/offline students' grievances	View Document
Proof for Implementation of guidelines of statutory/regulatory bodies	View Document
Details of statutory/regulatory Committees (to be notified in institutional website also)	View Document
Annual report of the committee motioning the activities and number of grievances redressed to prove timely redressal of the grievances	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.2 Student Progression

5.2.1

Percentage of placement of outgoing students and students progressing to higher education during the last five years

Response: 96.93

5.2.1.1 Number of outgoing students placed and / or progressed to higher education year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
463	332	436	381	409

5.2.1.2 Number of outgoing students year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
470	340	476	384	415

File Description	Document
Number and List of students placed along with placement details such as name of the company, compensation, etc and links to Placement order(the above list should be available on institutional website)	View Document
List of students progressing for Higher Education, with details of program and institution that they are/have enrolled along with links to proof of continuation in higher education.(the above list should be available on institutional website)	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.2.2

Percentage of students qualifying in state/national/ international level examinations during the last five years

Response: 26.98

5.2.2.1 Number of students qualifying in state/ national/ international level examinations year wise during last five years (eg: IIT/JAM/NET/SLET/GATE/GMAT/GPAT/CLAT/CAT/ GRE/TOEFL/ IELTS/Civil Services/State government examinations etc.)

2022-23	2021-22	2020-21	2019-20	2018-19
3	1	6	1	6

File Description	Document
List of students qualified year wise under each category and links to Qualifying Certificates of the students taking the examination	View Document
Institutional data in the prescribed format	View Document

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 last five years

Response: 6

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one) year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
2	2	0	0	2

File Description	Document
list and links to e-copies of award letters and certificates	View Document
Institutional data in the prescribed format	View Document

5.3.2

Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 5.4

5.3.2.1 Number of sports and cultural programs in which students of the Institution participated year wise during last five years

2022-23	2021-22	2020-21	2019-20	2018-19
7	6	3	6	5

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

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**Response:**

The Institute created an alumni association in 2019 in an effort to keep a close relationship with its former students. The Alumni Association of ACEW seeks to bridge the gap between college and career life and serve as an avenue for fostering strong ties with alumni and the industry. The objective of the alumni association is to link alumni to the institution and to formulate synergic strategies for the development of the institution. Additionally, it enables the institution to achieve its goals and benefit each and every one of its stakeholders. Since its inception, alumni get together have been held on a regular basis.

The alumni association keeps in touch with the business community and helps alumni networks form. The alumni association organizes the annual alumni event, with the help from the management. The Alumni are invited to discuss their ideas and recommendations on the course's breadth and to raise professional awareness from a variety of branches. This gives the alumnae the ability to connect with other alumnae and think back on their earlier experiences. Through the Alumni Association, former students and instructors exchange their ideas and professional, career, and intellectual experiences.

The following initiatives are accomplished with alumni support.

Curriculum Enrichment: Alumni are involved in the identification of curricular gaps and the design of value-added course modules. Alumni hosts webinars on technical topics and fill the curricular gaps.

Guest Lectures: The alumni association aids in organizing interactive sessions to excite current students about Skill Development, Emerging technologies and Industry experiences. The alumnae express their views on social networks.

Industry Interaction: MOUs with industries are formed with the assistance of the alumni. Alumni who are also business owners provide guidance on starting a firm, turning them into job creators. Assistance for student internships is provided by the alumni.

Innovation and Consultancy: The association encourages college students and association members to conduct research and consulting work in sectors such as engineering, new trends in innovations. The Alumni support the departments by directing entrepreneurs to conduct consulting work in several technical disciplines.

Mentoring: The Alumni actively participate in volunteer work ie., mentoring students in their areas of specialization, for example to take full advantage of former students' rich experiences for the purpose to advance the institution's objectives and also to assist students obtain appropriate jobs.

Placements / References: The college's alumni network is one of the most significant sources of placement opportunities for students. The Alumni assist students with company referrals and placement within their respective enterprises.

Administration: The Alumni are members of the IQAC and contribute feedback to impart a quality system that is adaptable to current industry trends and needs.

Financial Assistance: Alumni made financial contribution as well to help the college build small infrastructures, placement training & learning resource enhancement.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1

The institutional governance and leadership are in accordance with the vision and mission of the Institution and it is visible in various institutional practices such as NEP implementation, sustained institutional growth, decentralization, participation in the institutional governance and in their short term and long term Institutional Perspective Plan.

Response:

Arunachala College of Engineering for Women started its journey from the year 2009 to provide opportunities for young women to strengthen their knowledge and develop the skills necessary for lifelong learning in the contemporary technological global community and enabling them to become global women leaders.

Vision

To inculcate value - based technical education and produce outstanding women graduates to compete with the technological challenges with right attitude towards social empowerment.

Mission

- To equip resources and establish infrastructure for a beneficial process that paves way for ideal technocrats.
- To educate and make efficient students with needed skills and make them industry ready engineers.
- To establish high level learning and research skills to confront the technological scenarios.
- To provide valuable resources for social empowerment and lifelong learning process.

The institution is managed in an inclusive and collaborative manner with all stakeholders including parents, students, alumni, businesses, etc., participating actively in its administration to deliver value based and higher learning which bring significant benefits to the society. The institute has an excellent reputation because of its many outstanding qualities, which include its distinguished trustworthy staff, regular upgrades to its lab equipment, a vast collection of books and online journals, and innovative programmes that foster students research and communication abilities.

Faculty Participation in Decision-Making Bodies:

The College maintains communication at all levels and transparency in decision making process. Faculty are members and conveners of the various committees that are instituted for the day-to-day functioning of the college. Some of these committees are the Academic Council, the Examination Committee, the Admission Committee, R&D committee, etc. Academic committee determines various innovative teaching-learning practices and pedagogical practices to be adopted. Faculty members also discharge driving pervasive role as motivators for cultural and socially conscious activities in the institution by steering the NSS unit as well as Women's development cell.

Decentralization of process

The Governance of the Institution is vested with the Governing Council. The Governing Council conduct the meeting to review the activities and recommends new initiatives. The major decision of the Institution is thoroughly discussed in this committee and are executed by the Head of the Institution. The HOD and the faculty members ensure the proper implementation of the decision and direction given by the authorities.

The Principal encourages the flow of information and suggestions from all the levels of authority. The Principal conducts regular meetings with the Head of the department to discuss the activities of the College. Faculty meetings play a pivotal role in collecting suggestion from all the teachers which are analysed later in the HODs meetings.

Institutional perspective plan

I. Short term plan

1. To obtain A++ grade in NAAC accreditation.
2. To obtain NBA accreditation for all the departments of the Institution.
3. To obtain autonomous status.
4. To obtain research centre in all the departments.
5. NIRF Ranking with in top 75 Engineering Institution.
6. To sign MOU's with central government and State government organisations.
7. To collaborate with foreign institutions for exchange programme & Higher education.
8. To establish start-up companies within the Institution.

II. Long Term Plan

1. NIRF Ranking with in top 20 Engineering Institution.
2. To become independent university.
3. To establish industry based production centre.
4. To obtain International ABET Accreditation in all the departments.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.2 Strategy Development and Deployment

6.2.1

The institutional perspective plan is effectively deployed and functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules, and procedures, etc

Response:

The organization is committed to the advancement of excellence in all areas of continuous improvement. This is made possible by perspective and strategic plans that outline the steps that must be performed in order to shine and grow.

Every department creates its own strategies to raise the caliber of the programmes and the institution as a whole. The Principal and department committees have been granted full authority and responsibility by the college administration to oversee all academic activities. They convene on a regular basis and take the required steps to create and carry out the institution's plans. After the institution's head gives his approval, each department works to accomplish the aim outlined in its strategic plan.

The goal of these programmes is to support several faculty members who are developing transformative technologies that could potentially solve the social issues facing Indian society today.

Administrative set up

The Principal, the Members of the Thottam Madhavan Educational & Charitable Trust, statutory bodies, department heads, and others work to ensure that students receive an excellent education with better facilities.

The Principal serves as the Chair of the Institution's proactive IQAC, which works to improve academic quality. Committees and administrators create and implement a range of high-quality programmes to support the college's growth. The activities conducted within the Department and college are overseen by the Principal.

The college has a well-organized admission process and an admission committee. The institution has a clear plan in place to provide students with a high-quality education through efficient teaching and learning techniques that are tailored to the demands of the present scenario.

The Academic Committee convenes on a regular basis to oversee and execute the policies. The Principal receives reports from the placement and training, and academics and admissions team. The Principal receives reports from the functional heads of administration, finance, physical education, research, computer center, and maintenance. The Principal provides direction to committees that deal on issues

like women's empowerment, alumni relations, and anti-ragging.

HR Policy

The college has a clear HR policy in place for hiring both teaching and non-teaching personnel. Faculty Members are encouraged to write research articles and present papers at national and international seminars and conferences. The college offers the necessary funding to pursue research initiatives. The college offers staff and instructors a stimulating work environment.

The Administrative manual makes clear the obligations of employees, leave and conduct rules, and the hiring procedure. Stakeholders have the option to provide feedback and suggestions via online platforms and suggestion boxes.

Strategic / Perspective Plan

1. To get Accreditation from UGC, AICTE.
2. To establish better academic practices and procedures.
3. To produce technically competent and ethically strong Engineers.
4. To encourage Research and consultancy.
5. To get funds from various funding Government and Non-government agencies.
6. To improve good quality publication.

File Description	Document
Upload Additional information	View Document
Institutional perspective Plan and deployment documents on the website	View Document
Provide Link for Additional information	View Document

6.2.2

Institution implements e-governance in its operations

- 1. Administration**
- 2. Finance and Accounts**
- 3. Student Admission and Support**
- 4. Examination**

Response: A. All of the above

File Description	Document
Screen shots of user interfaces of each module reflecting the name of the HEI	View Document
Institutional expenditure statements for the budget heads of e-governance implementation ERP Document	View Document
Annual e-governance report approved by the Governing Council/ Board of Management/ Syndicate Policy document on e-governance	View Document

6.3 Faculty Empowerment Strategies

6.3.1

The institution has performance appraisal system, effective welfare measures for teaching and non-teaching staff and avenues for career development/progression

Response:

The organization offers opportunities for professional growth and advancement, an efficient welfare system for both teaching and non-teaching workers, and a well planned and transparent self appraisal system for both teaching & non teaching staff members.

Career Development:

Staff members receive financial assistance for their registration fees as well as travel expenses for conferences, seminars and workshops. Faculty members receive financial assistance for journal publications, patents and research projects. Faculty members are permitted and given OD to give guest lectures at other institutions in order to support their research and knowledge acquisition. They are also urged to enroll in doctoral studies in order to advance their career and institution's research and development. Incentive towards NPTEL Examination fee is given. Revision of salary is done for qualifying with Ph.D/ NET / SET Examination.

Welfare measures:

1. Group Insurance for teaching & non-teaching staff members.
2. Leave provision for teaching & non-teaching staff including vacation leave, casual leave, medical leave, maternity leave, long leave for doing higher studies.
3. Fee concession for the wards of employees, studying in Arunachala Institution.
4. ESI & EPF for teaching & non-teaching staff members.
5. Accommodation facility for teaching & non-teaching staff members

Performance Appraisal system:**1. Teaching staff**

Faculty's performance is appraised yearly including the odd & even semester of the academic year. A structured frame work is followed in appraising the performance of the faculty members.

The performance appraisal of teaching staff include academic performance in University results, students feedback, contribution towards institution development, co-curricular activities, participated / organised seminar, workshop & faculty development programme, certification courses under taken, journal paper published and book published, patent filed, funded project received and supervising Ph.D Scholars.

2. Non-teaching staff

Non-Teaching staff are appraised by the following parameters like performance, personal competency, personal characteristics, relationship with students / parents / co workers.

Performance Appraisal Evaluation:

The performance of the faculty is awarded based on the marks given for each parameter. IQAC, Principal & HODs decide the target to be obtained by the staff members every year. Any lagging in the performance will be intimated to the staff members and they are counselled to improve the performance in the next academic year. Suitable facilities are also provided to improve the performance.

Evaluation by the students:

Students assess their teachers twice a year on various elements of student-teacher interaction related to their specific disciplines. The evaluation is based on teachers' punctuality and regularity, their discussion of class assignments, tutorials, assessments, and syllabus.

File Description	Document
Upload Additional information	View Document

6.3.2

Percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 54.41

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

2022-23	2021-22	2020-21	2019-20	2018-19
61	76	63	60	61

File Description	Document
Policy document on providing financial support to teachers	View Document
Institutional data in the prescribed format	View Document
Copy of letter/s indicating financial assistance to teachers and list of teachers receiving financial support year-wise under each head.	View Document
Audited statement of account highlighting the financial support to teachers to attend conferences / workshop s and towards membership fee for professional bodies	View Document

6.3.3

Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years

Response: 63.14

6.3.3.1 Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
98	95	84	88	82

6.3.3.2 Number of non-teaching staff year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
38	15	26	24	15

File Description	Document
Refresher course/Faculty Orientation or other programmes as per UGC/AICTE stipulated periods, as participated by teachers year-wise.	View Document
Institutional data in the prescribed format	View Document
Copy of the certificates of the program attended by teachers.	View Document
Annual reports highlighting the programmes undertaken by the teachers	View Document

6.4 Financial Management and Resource Mobilization

6.4.1

Institution has strategies for mobilization and optimal utilization of resources and funds from various sources (government/ nongovernment organizations) and it conducts financial audits regularly (internal and external)

Response:

Mobilization of Funds

The fees that are collected from students serve as the primary source of income. All fees that have been collected are credited to the college account. Additionally, research grants obtained from non-governmental organizations are deposited into the college account. The research committee keeps an eye on the funds and its appropriate use.

Optimal Utilization of Resources

The Chairman of the college committee is the person authorized to make decisions and oversee the distribution of funds . He has the authority to sign contracts for pay and other grants. The proposals are sent to the college committee by the Principal once they have been verified. The Principal prepares and the chairperson approves the institutions annual budget, which authorizes funding for various administrative and academic uses. Periodically, audits are conducted to make sure the budget is being used as efficiently as possible for its intended purpose.

Budget Preparation

To optimize the effective use of financial resources, a methodical strategy must be taken for budget preparation, accounting, systematic purchasing, bill settlement, and regular, recurring audits. Our organization has the necessary structure in place at our institution to ensure that the financial resources available to us are used effectively. To ensure the most effective use of financial resources, a yearly budget is developed based on the estimations obtained from the departments and functional units of the college. A committee representing the college approves the amount.

Process of Internal Auditing

The internal auditing committee regularly reviews all of the invoices and vouchers. All of the expense records were correctly maintained by the accounts department. The institution attaches the greatest importance to the keeping of accurate accounts. When the fiscal year comes to an end, a legal audit is performed. The audit report is examined by management. The efficient use of financial resources is planned at the start of every fiscal year. Purchase orders for laboratory equipment, instructional aids, furnishing, facilities, and payment of maintenance bills are handled by the accounts department, along with tuition fee collection, wage distribution, tax payment, and loan distribution.

Process of External Auditing

According to government regulations, external auditing is usually performed on an annual basis. Following the auditor's confirmation, all transactions are properly authorized and presented to management for additional examination. Any discrepancy discovered during the audit process will be examined right away, together with any necessary supporting documentation, within the set time frames. The audited declaration on the paperwork is properly acknowledged by the management's authorities.

File Description	Document
Upload Additional information	View Document

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. It reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities

Response:

In 2019 the Internal Quality Assurance Cell (IQAC) was established to ensure that the Institution meets the standards set by Higher Education Institutions (HEIs). IQAC has undertaken various initiatives to raise awareness among faculty members about quality assurance strategies to enhance academic excellence. It has implemented a comprehensive process chart for all activities and worked towards institutionalizing effective quality assurance strategies and processes. As a result, the cell has become a central component in adopting Outcome-Based Education as a progressive educational tool.

Quality Improvement Process

IQAC maintains continuous oversight of all academic, non-academic, and administrative activities to align with the incremental improvement.

Quality Audit

IQAC conducts internal audits and department profiling presentations every semester to assess the proper functioning and achievement of department goals as outlined in the approved yearly plan. An external audit is conducted by experts at the end of the academic year, where they evaluate various aspects, including departments, the library, the Department of Physical Education, administrative office, examination cell, placement cell, statutory bodies, and supporting units.

Energy Audit and Environment Audit have been conducted to assess the eco-friendly initiatives carried out on the campus and maintain a sustainable environment.

ISO Certification

IQAC of ACEW has been crucial to help the Institution to get ISO certification for its Quality Management System in July 2022.

Teaching Learning Process

IQAC organizes regular academic audits to ensure effective implementation of teaching learning process and maintenance of course files. Monitoring of course files, lecture Schedules and course plans. Verification of Internal test analysis, question papers. Arrangement of special classes for weak students during evening hours. Identifying the new processes / delivery method and recommending the same for improving the quality. Action Taken on Feedback from the stakeholders (Students, Teachers, Alumni, Employers and Parents).

Quality Improvement:

Teaching Learning outcome is calculated based on POs, COs, and PEOs. IQAC monitors the progress of these outcome and suggest for the various technics for continuous improvement. Staff performance appraisal is carried out to evaluate the progress of Teachers. Based on the staff performance appraisal the committee suggests various activities to be carried out by the faculty for improvement.

IQAC has implemented a wide range of skill development activities, encouraging all students to participate. These activities, with their contributions being nurtured effectively, offer students a unique opportunity to develop technical skills and gain confidence in their respective disciplines. In addition, technical events are organized, focusing on the latest technologies, thereby encouraging enthusiasts to explore various aspects of both hardware and software field.

Functions of IQAC

- 1.Setting quality benchmarks with consistent work
- 2.Creating parameters to reach academic as well as non-academic learning goals
- 3.Creating a student-centric teaching-learning environment
- 4.Enabling faculty to efficiently use Tech tools for innovation in education
- 5.Considering the feedback of students, faculty & parents for the best practices
- 6.Organizing various workshops & seminars for the quality education environment
- 7.Documenting all the activities in chronological order & keeping a tab on improvements

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.5.2

Quality assurance initiatives of the institution include:

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); quality improvement initiatives identified and implemented**
- 2.Academic and Administrative Audit (AAA) and follow-up action taken**
- 3.Collaborative quality initiatives with other institution(s)**
- 4.Participation in NIRF and other recognized rankings**
- 5.Any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA etc.**

Response: A. Any 4 or more of the above

File Description	Document
Quality audit reports/certificate as applicable and valid for the assessment period.	View Document
NIRF report, AAA report and details on follow up actions	View Document
List of Collaborative quality initiatives with other institution(s) along with brochures and geo-tagged photos with caption and date.	View Document
Link to Minute of IQAC meetings, hosted on HEI website	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1

Institution has initiated the Gender Audit and measures for the promotion of gender equity during the last five years.

Describe the gender equity & sensitization in curricular and co-curricular activities, facilities for women on campus etc., within 500 words

Response:

ACEW stands out when it comes to gender equity. The Institute actively encourages and values the participation and contributions of women in all of its significant initiatives, including leadership and decision-making. The Women Empowerment Cell has a vital role in making our college campus a safe and empowering environment for female students and faculty members. It strives to enhance their awareness of issues related to women, fostering an atmosphere of support and understanding.

Women's Safety and Security:

The college's management is committed to giving the girl students a safe and secure learning environment. The institution places a high priority on staff and student safety, placing a number of security guards at entry points. Campus safety is improved via CCTV surveillance.

Women's Sensitization Programme

To ensure women's empowerment, events such as gender-sensitization programmes, and motivational speeches are arranged for students.

Women's Co curricular Activities

Many co-curricular activities are arranged inside the campus. They provide supplementary and complementary instruction and education for the women students.

Facilities for Women in the Campus

The institution has rest room facility in all floors with incinerators to ensure hygiene and a common room for recreational purpose.

There is a well-established hostel on campus.

A gym facility is made available in the campus.

The students are encouraged to attend programmes like guest lectures, seminars, awareness programmes and other welfare activities related to women empowerment.

Students are encouraged to participate in indoor and outdoor activities.

Special Programme / Celebrations

ACEW enthusiastically observes both national and international commemorative days, events, and festivals as a tribute to the ideals of patriotism and to honor our esteemed national leaders.

Gender Specific Counselling Programmes

Yaadhumaanaval, A Programme emphasising empowerment of girls highlighted the importance of empowering girls.

Mentor – Mentee System

The system helps the students of ACEW to overcome their problems like home sickness, stage fear, communication skills etc.

Grievance Redressal & Anti-ragging

The College has dedicated committees, including Grievance Redressal, Anti-Ragging, and Internal Complaints, providing direct channels for students to address their concerns.

File Description	Document
Upload Additional information	View Document

7.1.2

The Institution has facilities and initiatives for

1. Alternate sources of energy and energy conservation measures
2. Management of the various types of degradable and nondegradable waste
3. Water conservation
4. Green campus initiatives
5. Disabled-friendly, barrier free environment

Response: A. 4 or All of the above

File Description	Document
Policy document on the green campus/plastic free campus.	View Document
Geo-tagged photographs/videos of the facilities.	View Document
Circulars and report of activities for the implementation of the initiatives document	View Document
Bills for the purchase of equipment's for the facilities created under this metric	View Document

7.1.3

Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

- 1.Green audit / Environment audit**
- 2.Energy audit**
- 3.Clean and green campus initiatives**
- 4.Beyond the campus environmental promotion activities**

Response: C. Any 2 of the above

File Description	Document
Report on Environmental Promotional activities conducted beyond the campus with geo tagged photographs with caption and date	View Document
Policy document on environment and energy usage Certificate from the auditing agency	View Document
Green audit/environmental audit report from recognized bodies	View Document
Certificates of the awards received from recognized agency (if any).	View Document

7.1.4

Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)

Response:

ACEW has established a number of institutional activities and initiatives to create an inclusive atmosphere and encourage harmony and tolerance for differences in culture, language, community, and socioeconomic status.

ACEW has developed unity in diversity and conducts programmes that promote awareness and understanding of holistic social set up. Programmes like Workshops, Training programmes, Cultural events, and Seminars are conducted to sensitize students and employees to respect for diversity, while remaining united. ACEW provides Cultural sensitivity training to students and employees to help them understand and appreciate different cultures, traditions, and values. This training can help to reduce biases and stereotypes and promote understanding and empathy towards others.

Cultural Diversity Celebrations / Programmes

ACEW organizes three types of celebrations and programmes namely seasonal, national & religious. Students participate in such programmes and present their regional or cultural folk songs and dances. These cultural events are organized at different levels- departments, hostels, and college- and on different occasions like Pongal celebration, College annual day, Independence Day, Republic Day, etc. Pongal Celebration honors the harvest festival, creating a vibrant atmosphere of traditional festivities. National Voters Day is celebrated to make students aware of the importance of voting. Teachers Day is celebrated to show a heartfelt expression of gratitude for educators shaping the students' academic journey. Yoga Day raises awareness about yoga and their uses. Onam is observed on our campus with all of the festivities and joy of the holiday season. Ayudha Pooja is being celebrated as a day where we pay homage to the tools and equipment integral to our learning and work, fostering a sense of gratitude. Christmas Celebration brings the joy and spirit of the festive season to our campus, promoting unity and goodwill. Republic Day is a patriotic celebration marking the adoption of the Indian Constitution. National Science Day promotes scientific awareness. Women's Day celebrated showcases women's achievements, fostering gender equality within our college community, adding vibrancy beyond the classroom. World creativity and innovation day is celebrated to establish the innovative and creative nature of the students. Each celebration contributes to the cultural tapestry of our college, fostering a sense of community and shared values among students and staff.

Welfare Programmes

Through the NSS and YRC, the organization runs numerous welfare and awareness campaigns in the villages surrounding the college. Through these programmes, the students not only get to know the public but also develop a sense of social responsibility and their obligation to the community.

Impact of the programmes among staff & students

Creating awareness among students and staff to appreciate and value the different people in the society. They can understand their right and values. It creates awareness to value each and every citizens and also help to understand their duties and responsibility to create a better society.

File Description	Document
Upload Additional information	View Document

7.2 Best Practices

7.2.1

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

Response:

Best Practice: I

I. Title of the Practice: Empowering the Women through Skill Development and Career opportunities.

II. Objectives:

- To support the academic and professional advancement of women.
- To enhance interdisciplinary education through academic talks.
- To encourage women to pursue fulfilling careers and make them financially independent.
- To provide career education and develop skills in students.
- To motivate students to pursue higher studies.

III. The Context:

The College was founded as the first women's Engineering Institution in Kanyakumari district in 2009 with the urgent need for women's education to improve women's prospects and foster a healthy society in mind.

IV. The Practice:

1. Placement Opportunities:

Department-wise Career Awareness Programmes on higher education, employment prospects, and communication skills are held regularly. All faculty members emphasize the value of women's education, higher education, career options and other related fields during guidance and counselling hours.

2. Internship for Students:

Industrial linkage programmes like internship, industrial projects, field trips, and research works are organized. A total of 296 students attended these programmes.

3. Skill Development:

(i) Soft Skill Training Programme:

In both academic and professional contexts, these techniques help students in developing strong presenting and communication skills.

(ii) Coding and Aptitude Training:

The students are trained in advanced techniques of the languages like C/C++, JAVA, PYTHON and technologies and make them application oriented.

(iii) Career Development:

Skill-based, value-added, and certificate programmes are launched to improve the students skill set in partnership with corporations and industries. Numerous MOOC courses, such as SWAYAM, NPTEL, Spoken Tutorial, and Learnathon, are taken by students. Training programmes for the competitive exams like TNPSC, GATE and Bank exams are conducted for the benefit of students.

iv) Developing the social responsibility:

The National Service Scheme plans a wide range of public outreach programmes in the neighbouring communities. The volunteers also visit special schools, elderly homes in order to focus on serving humanity. There are planned medical camps, sapling distributions, and rally participation.

V. Evidence of Success:

- 18% of the students go for higher studies and 78% are placed in campus recruitment.
- 8 students started their own business ventures.

VI. Problems Encountered and Resources Required:

(i) Problems Encountered:

- Most of our students speak regional language. It takes a while for them to get past their language barrier.
- Most students refuse employment offers from companies other than their district.

(ii) Resources Required:

- More attention and mentoring should be given to students.
- Establishing an interdisciplinary network of resource persons across a range of subjects.
- The amount of money required to schedule each event.

Best Practice:II

I.Title of the Practice: Infuse Innovation Practice Among the Students

II. Objective of the practice:

The primary objectives of this practice are:

- To educate the students about current advancement and research in a wide range of engineering domains and assist them to determine their professional goal.

- To encourage aspiring engineers to look for challenges dealing with technical fields either currently or in the future, develop solution for societal requirements and establish the most effective potential remedies.
- To identify the problem encountered in the industry and offer best solution.
- To motivate the students for getting their research articles acknowledged.
- To create an environment that encourages students to come up with their own business proposals and see them through their conclusion in order to achieve success.
- To widen students fields of competence and encourage them to come up with innovative models for their projects.

III. The Context:

Conventional engineering education might not be enough in today's cutthroat job market to guarantee students' overall growth. Students are more prepared to tackle challenges in the real world with fresh and creative solutions after being exposed to research trends.

IV. The Practice:

The Innovation Programme at ACEW includes access to resources that are critical for emerging inventions, as well as a sequence of workshops, seminars, and mentorship sessions. Students are encouraged to create business plans and are exposed to case studies from the real world. The students are also encouraged to publish their research articles.

V. Evidence of Success:

- Students and alumni of ACEW have produced a sizable number of student-led startups.
- Students from ACEW have demonstrated their innovative ideas by winning awards in regional and national contests.
- Students have filed 27 patents, presented 131 papers in conferences and published 17 articles in peer reviewed journals.

VI. Problems Encountered and Resources Required:

(i) Problems Encountered:

- Securing adequate financial resources to support student's start-ups is challenging.
- Maintaining a steady and competent pool of mentors and advisors is a realistic task that is to be overcome in the future.

(ii) Resources Required:

- Funding for Seed capital: To provide initial funding for student start-ups
- Providing a dedicated work space for student entrepreneurs.

File Description	Document
Best practices as hosted on the Institutional website	View Document
Any other relevant information	View Document

7.3 Institutional Distinctiveness

7.3.1

Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

The strategies to accomplish the vision of the College are as follows:

1. Academic excellence

The institution has excellent placement records compared to other colleges in Kanyakumari District. The Institution is awarded Best Women's Engineering College in India by AICTE Chairman during ISTE Awards, New Delhi. In the Anna University academic ranking the institution got 2nd rank among all the Engineering Colleges in Tamil Nadu during April-May 2020 Examinations. The college has secured 207 University Ranks including seven first ranks.

2. Innovation and Patent

The Innovation Programme at ACEW includes access to resources for emerging inventions, as well as a sequence of workshops, seminars, and mentorship sessions. Students are encouraged to create business plans and are exposed to case studies from the real world.

The success is evident through several key indicators:

- Start-ups launched by Students and Alumni of ACEW have produced a sizable number of student-led startups.
- Students from ACEW have demonstrated their innovative ideas by winning numerous awards in regional and national contests.
- We filed and published 27 patents.
- 131 papers were published by our students during the last year

3. Research Centre

ACEW Research Centre periodically organizes Seminars, Workshops, Symposiums and National and International Conferences. Our research facilities are well-stocked with the cutting-edge instruments needed to enable a thorough and in-depth research. The Research Departments of EEE and ECE have knowledgeable and talented faculty. Through the Research centre of ACEW, 31 scholars have completed their Ph.D.

4. Research oriented labs

Research and development resources are housed within the laboratory of the institution. The laboratory includes drone lab, robotics lab, E-vehicle lab, IoT lab etc.

The primary goal of the Drone Lab is to provide interested students, a platform for deep learning.

An electric vehicle lab setup in a classroom can offer a hands-on learning opportunity for students.

The main goal of IoT lab is to assist students in their IoT research and product development in the fields of computer science and electronics.

5. Training and Placement

The placement cell works nonstop to provide our students with a plethora of training and placement opportunities. By inviting different organizations to recruit students on campus, the institution is demonstrating its commitment to helping each student explore a variety of placement alternatives.

6. Skill Development

To provide our students with all-encompassing support as they get ready to face the global competition, we have created a separate Training and Placement wing.

We provide a plethora of tools to help them gain the necessary interview skills, such as setting up practice interviews. Additionally, students receive active assistance from our staff of skilled soft skill trainers.

7. Institution's Innovation Council (IIC) program

The purpose of IIC is to involve a lot of staff and students in different innovation and entrepreneurship-related activities like Ideathon, Problem Solving, Proof of Concept Development, Design Thinking, IPR, project handling etc. Innovation is encouraged inside IIC through a variety of means, creating a campus-wide innovation promotion.

8. Decision-making and Leadership:

Student representation in clubs and committees, as well as the Student Academic Council, help students develop their leadership and decision-making skills. Representatives from every class make up the Student Academic Council, which represents their needs and recommendations for improving the College's operation.

9. Entrepreneurship Development

Entrepreneurship Development is to enhance the skill set and knowledge of entrepreneurs regarding the development, management and organization of a business venture. This is accomplished through emphasising entrepreneurial acumen through training sessions and projects.

File Description	Document
Appropriate web in the Institutional website	View Document
Any other relevant information	View Document

5. CONCLUSION

Additional Information :

- AICTE, New Delhi sponsored RPS project with Rs. 8.7 lakh funding during the last five years.
- TNSC sponsored students project with Rs. 15,000/- funding during the last five years.
- Arunachala Technology, an MSME registered start-up company, is functioning on Campus.
- IET, an International Professional Society, has bestowed our institution with awards such as “Honourable on campus”, “Best on Campus”, “Premier on Campus” and “Pride on Campus”.
- Cognizant has given “Super learning catalyst Award” for the outstanding performance of the students for the programme “Digital Nurture” which is conducted every year.
- Obtained trophies for winning at the Anna University Zonal Level events like Volleyball, Ball Badminton, Basket Ball, Chess, Long Jump and 100meter running.
- Represented the University at the State Level in fencing.
- Eight alumni students have launched their own businesses and other endeavours.

Concluding Remarks :

Arunachala College of Engineering for Women is the most sought after college and it has a high enrolment rate every year. The institution also achieves high percentage every year. In accordance with university norms, the college recruits experienced and committed faculty. For the benefit of both teaching and non-teaching staff the institution organizes FDPs. The performance of the staff is evaluated through systematic evaluation process. Every year, staff members carryout a self-appraisal form to determine where they belong in their academic process. The college follows the curriculum prescribed by the university. To develop the ethics and values among the students, a few elective courses are added in the curriculum. The institution makes certain that the curriculum is outcome based in order to achieve COs, POs and PSOs. The academic achievement of students is excellent and the students are consistently producing university ranks including university first rank. The students learn about the newest technology by attending seminars, workshops, conferences, etc., The staff have published academic books and both the staff and the students are publishing papers regularly in reputed journals which is a credit to our college.

The students get involved in the neighbourhood activities like tree plantation, cleaning activities, health camps through the extension activities. For their collective involvement in such activities the college has got various awards and recognition from the government and non-government agencies. The institution has signed MOUs with industries and this paves way for industrial visits and developing projects. The College has ICT enabled classrooms, seminar hall, auditorium and library with library management system, which allows the staff and students to do their academic work. Placement opportunities are provided to the needy and we have a good success rate in this regard. Career counselling and coaching for competitive exams are given to students. The Alumni Association has a positive relationship with alumni and the industry. We have many entrepreneurs as members. Auditing is carried out in relation to resource utilization.

A provision is available for the stake holders to give their suggestion. It is used for the development of the college. The institution has successfully implemented two practices on Women Empowerment and Innovation. All of these unique qualities contribute to the institution’s exceptional success and distinctiveness.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.2.1	<p>Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)</p> <p>Answer before DVV Verification :</p> <p>Answer After DVV Verification :28</p> <p>Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.</p>																				
1.2.2	<p><i>Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years</i></p> <p>1.2.2.1. Number of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2022-23</th> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> </tr> </thead> <tbody> <tr> <td>858</td> <td>934</td> <td>1012</td> <td>953</td> <td>1001</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2022-23</th> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> </tr> </thead> <tbody> <tr> <td>546</td> <td>732</td> <td>789</td> <td>488</td> <td>579</td> </tr> </tbody> </table> <p>Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.</p>	2022-23	2021-22	2020-21	2019-20	2018-19	858	934	1012	953	1001	2022-23	2021-22	2020-21	2019-20	2018-19	546	732	789	488	579
2022-23	2021-22	2020-21	2019-20	2018-19																	
858	934	1012	953	1001																	
2022-23	2021-22	2020-21	2019-20	2018-19																	
546	732	789	488	579																	
1.3.2	<p>Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)</p> <p>1.3.2.1. Number of students undertaking project work/field work / internships</p> <p>Answer before DVV Verification : 1027</p> <p>Answer after DVV Verification: 416</p> <p>Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.</p>																				
2.1.2	<p><i>Percentage of seats filled against reserved categories (SC, ST, OBC etc.) as per applicable reservation policy for the first year admission during the last five years</i></p> <p>2.1.2.1. Number of actual students admitted from the reserved categories year wise during</p>																				

last five years (Exclusive of supernumerary seats)

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
430	410	271	394	376

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
307	304	234	280	302

2.1.2.2. Number of seats earmarked for reserved category as per GOI/ State Govt rule year wise during the last five years

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
464	464	421	421	421

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
464	464	421	421	421

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

2.4.2 Percentage of full time teachers with NET/SET/SLET/ Ph. D./D.Sc. / D.Litt./L.L.D. during the last five years (consider only highest degree for count)**2.4.2.1. Number of full time teachers with NET/SET/SLET/Ph. D./ D.Sc. / D.Litt./L.L.D year wise during the last five years**

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
38	33	23	17	13

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
35	32	21	15	13

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

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

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

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
4.27	12.615	2.125	1.14	0.55

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
4.27	4.831	2.125	1.14	0.55

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

3.2.2 Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years**3.2.2.1. Total number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during last five years**

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
18	13	10	10	10

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
15	11	8	8	8

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years**3.3.2.1. Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years**

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
215	109	17	137	19

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19

6	9	12	47	8
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Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

3.4.3 ***Number of extension and outreach programs conducted by the institution through organized forums including NSS/NCC with involvement of community during the last five years.***

3.4.3.1. Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC etc., year wise during the last five years

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
12	12	12	12	12

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
9	8	9	9	8

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

3.5.1 ***Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.***

Answer before DVV Verification :

Answer After DVV Verification :46

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

4.1.2 ***Percentage of expenditure for infrastructure development and augmentation excluding salary during the last five years***

4.1.2.1. Expenditure for infrastructure development and augmentation, excluding salary year wise during last five years (INR in lakhs)

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
203.6	104.44	76.6	112.81	224.48

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19

201.71	104.44	76.6	112.81	223.83
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Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

4.4.1 ***Percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, during the last five years (INR in Lakhs)***

4.4.1.1. **Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year wise during the last five years (INR in lakhs)**

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
280.88	100.72	84.98	261.77	260.54

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
71.02	23.16	15.27	44.82	55.79

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

5.1.1 ***Percentage of students benefited by scholarships and freeships provided by the institution, government and non-government bodies, industries, individuals, philanthropists during the last five years***

5.1.1.1. **Number of students benefited by scholarships and freeships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years**

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
1200	1173	1232	1259	1322

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
1020	980	1132	1086	1189

Remark : As per revised data and clarification received from HEI, based on that without multiple counting the DVV input is recommended.

5.1.4 ***The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases***

1. **Implementation of guidelines of statutory/regulatory bodies**
2. **Organisation wide awareness and undertakings on policies with zero tolerance**
3. **Mechanisms for submission of online/offline students' grievances**
4. **Timely redressal of the grievances through appropriate committees**

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: B. 3 of the above

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

5.2.1 **Percentage of placement of outgoing students and students progressing to higher education during the last five years**

5.2.1.1. **Number of outgoing students placed and / or progressed to higher education year wise during the last five years**

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
463	333	436	381	409

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
463	332	436	381	409

5.2.1.2. **Number of outgoing students year wise during the last five years**

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
470	340	476	384	415

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
470	340	476	384	415

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

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 last five years**

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

Answer before DVV Verification:

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2022-23	2021-22	2020-21	2019-20	2018-19
25	14	1	1	2

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
2	2	0	0	2

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

5.3.2 Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)

5.3.2.1. Number of sports and cultural programs in which students of the Institution participated year wise during last five years

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
45	39	7	43	42

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
7	6	3	6	5

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

6.3.2 Percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

6.3.2.1. Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
69	78	63	64	63

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
61	76	63	60	61

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

6.3.3 Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years

6.3.3.1. Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
104	105	90	100	89

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
98	95	84	88	82

6.3.3.2. Number of non-teaching staff year wise during the last five years

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
38	15	26	24	15

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
38	15	26	24	15

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

7.1.3 Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

1. **Green audit / Environment audit**
2. **Energy audit**
3. **Clean and green campus initiatives**
4. **Beyond the campus environmental promotion activities**

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: C. Any 2 of the above

Remark : As per the supporting documents provided by HEI, based on that DVV input is recommended.

2.Extended Profile Deviations

ID	Extended Questions
1.1	Number of teaching staff / full time teachers during the last five years (Without repeat count): Answer before DVV Verification : 156 Answer after DVV Verification : 154