SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

AHALIA SCHOOL OF ENGINEERING AND TECHNOLOGY

AHALIA HEALTH HERITAGE KNOWLEDGE VILLAGE, KOZHIPARA (PO),
PALAKKAD - 678557, KERALA
678557
www.ahalia.ac.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Ahalia Health, Heritage & Knowledge Village (AHHKV) is the largest edu-health campus in Kerala, in which health, education and heritage go beyond its figurative meaning. This largest campus in Kerala is located in an exotic region of Palakkad amid breath taking valleys, verdant paddy fields and dense herbal gardens, with a perfect blend of nature and technology, 35 Kms from Coimbatore Airport and 24 Kms from Palghat Junction Railway Staion. With a commitment to social well-being - Ahalia Foundation Eye Hospital, Ahalia Diabetes Hospital, Ahalia Ayurveda Medical College & Hospital, Ahalia Women & Children Hospital, educational institutions such as Ahalia School of Management, Ahalia School of Engineering and Technology, Ahalia School of Pharmacy, Ahalia School of Optometry , Ahalia School of Paramedical Sciences, Ahalia Public School and the Indian Institute of Technology- Palakkad are functioning in AHHKV. Ahalia Heritage Village, a wing of AHHKV, promotes traditional art forms, sculpture and architecture and has a spectacular collection of antique musical instruments, household and agricultural equipment. One of the Philanthropic activities of Ahalia Group is the Ahalia Children's Village, which provides shelter and education for many under-privileged children. Ahalia Medicine Manufacturing Unit prepares Ayurveda medicines in its purest form.

Ahalia School of Engineering and Technology (ASET) is one of the premier institutions of Ahalia International Foundation, established in the year 2012 with a mission of providing world class training and education in the fields of science, engineering and technology to meritorious students. ASET, an AICTE approved institution, is affiliated to the APJ Abdul Kalam Technological University and is an ISO 9001:2015 certified institution. ASET offers five B.Tech courses namely Mechanical Engineering, Civil Engineering, Computer Science & Engineering, Electrical & Electronics Engineering and Electronics & Communication Engineering. The institution is situated in a lush green campus with a state-of-the-art library, seminar halls, cafeteria, sports and fitness centers. Many of our faculty members hold doctoral degree and we also foster research, development and entrepreneurship skills. Students are provided with ample opportunities to take part in various cultural activities, sports and games, seminars, workshops and symposia, helping them develop their interpersonal skills.

Vision

Grow as a centre of learning and research, transforming students to professionals with knowledge, skill, competence, commitment, confidence and ethics to serve the society.

Mission

1. To impart value-based education and promote curricular, co-curricular & extracurricular activities

amongst students through extensive theoretical & practical training by qualified and experienced personnel using state-of the-art facilities.

2. To promote research and consultancy for institution development and contribution to the society

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Eco-friendly campus
- Excellent infrastructure facilities
- Most popular institution among the district
- Responsive administration
- Effective mentor-mentee system
- Slow learners are provided with remedial classes
- Advanced learners are provided with honors and minor courses
- Equal importance to academic, co-curricular and extra-curricular activities
- Attractive scholarships for meritorious students
- Management's supportive and energetic attitude to preserving and improving the institution's quality.
- Ten years of relentless journey developed a pioneering school with 5 undergraduate programmes.
- Motivated students with good university grades.
- Active alumni, and Parents Teacher Association.
- Students and faculty from many geographies, classes, faiths, castes, and social and cultural backgrounds coexist together at the college.

Institutional Weakness

- Low student's enrollment in few departments is a concern
- Less number of students preferring campus accommodation and commuting daily, causes difficulty in value added programs

Institutional Opportunity

- The campus facilitates wider scope for interdisciplinary studies
- Employment opportunities for meritorious students within the campus
- Faculty and students can be encouraged to strengthen their publications
- IEDC and IIC can encourage students to become entrepreneurs and more startups can be evolved.

Institutional Challenge

- Sustaining the current geographical diversity of student population given the location of the institution in a rural region
- Balancing the need to serve the requirements of the local rural community with the need to train students to compete nationally and globally
- Empowering our SC/ST and women students to thrive in a more globalized and competitive

environment

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

ASET offers academic programmes in a conventional mode as face-to-face. It caters to the students of Kerala State, and most of them are from rural background. ASET is affiliated to APJ Abdul Kalam Technological University, Trivandrum, and follows the curriculum and syllabi specified by the University for all the courses offered. Students are provided with departmental and non-departmental (global) elective courses, giving them inter-disciplinary knowledge and understanding of the real world. Every department consists of course, class, and advisory committees, as per the University norms. These committees take care of the academic discipline and the departments' co-curricular and extracurricular activities.

It is essential to highlight the following aspects:

- Strict adherence to the academic calendar.
- Students are offered merit scholarships based on their score in qualifying examinations i.e., +2 PCM marks.
- Students and parents are covered with insurance policies and can avail of discounts on the consulting fees at hospitals run by the management.
- Institution has a good number of faculty members from other states.
- Faculty members can avail of free consultation, and their family members can avail of discounts on the medical expenses at the hospitals run by the management.
- Students are offered placements at Ahalia Group, under various departments.

Teaching-learning and Evaluation

Students admitted at ASET are from rural backgrounds. To cater to them, the institution emphasizes teaching and skill development aspects more. Students are provided with facilities to upskill and showcase their academic, c0-curricular, and extracurricular talents. A blended teaching-learning system is adopted, wherein teachers are empowered to utilize ICT tools for the content delivery along with conventional chalk & board system. Students undergo refresher courses, viz. Universal human Values, placement training programs, etc., shape their career. Teachers can organize and attend faculty development programs related to their course, management, and pedagogical methods. Feedback is obtained from the various stakeholders to ensure the effectiveness of the teaching-learning process. The internal Quality Assurance Cell (IQAC) conducts periodic internal quality audits and coordinates the external audit conducted by the University. Students are categorized into slow, average, and advanced learners. Remedial classes are conducted for slow and average learners, whereas minor/honors courses are conducted for advanced learners based on their choice of interest. Apart from the regular classes, students undergo workshops, internships, industrial visits, etc., in association with Institution Innovation Council, Innovation and Entrepreneurship Development Center, and various professional body chapters such as IEEE, ISTE, etc. Students are continuously evaluated as per the University norms, through two internal assessments, assignments, and tutorials. Internal exams are conducted through exam cell in a well-planned and organized manner. Faculty members prepare the question papers. It is then scrutinized by

the committee formed in the department and submitted to the exam cell. Internal test answer scripts are evaluated promptly, and students can access them. Discrepancies, if any, are sorted out immediately upon their request. The University conducts end-semester examinations.

Research, Innovations and Extension

ASET encourages faculty and students to undertake interdisciplinary project works, exposing them to various domains. Students submit their project proposals to funding agencies such as Kerala State Council for Science, Technology & Environment (KSCSTE). KSCSTE has sanctioned a few projects. In addition, students are motivated to undertake industrial projects, product development, etc. IEDC and IIC stimulate the students to submit their project proposals for the idea pitching competitions, and students have won many prizes in these competitions. Through the various professional bodies of the institution, programs on entrepreneurship development and Intellectual Property Rights (IPR) are being organized. MoUs are signed with various organizations and industries to enable students and faculty to upgrade their skillset. Faculty members have published papers in reputed journals with SCI, SCIE, and Scopus indexing. Few faculty members have authored book chapters and published books related to the curriculum of the University, the latest trends in their discipline, and interdisciplinary and general textbooks. Students and faculty are enthused to publish patents.

Every year 10th and 12th standard students from Palakkad district, who get full A+/A1 marks in their final board examination, are honored with a certificate and memento. The teachers and management of the schools are also honored with a memento. To serve society, ASET organizes various outreach programs and activities in association with the NSS unit of the college, Green 9 ENSAV Club, nature club, etc. Days of national and international importance are celebrated by organizing various programs, including World AIDS day, Mother's Day, Women's Day, Environment Day, National Energy Conservation Day, World Laughter Day, etc. Under the Unnat Bharat Abhiyan program, Ellapully village has been adopted by ASET.

Infrastructure and Learning Resources

ASET has completed 10 years of existence. During these 10 years, it has augmented good infrastructure. Learning resources like the library, laboratory facilities, smart classrooms, seminar halls, video conferencing facilities, and language labs are available to serve the student community. Each department has its own computer labs, through which students are trained on cutting-edge technologies. Students can utilize the gymnasium, yoga facilities, etc., available inside the campus. The library is fully stocked with books and reference materials. It has access to online resources through DELNET. Students are permitted to utilize the library beyond working hours and on Saturdays. Additional Skill Acquisition Programme (ASAP), an initiative of the Skill Development Ministry of Kerala, has sanctioned Rs. 30 Lakhs and sponsored a digital interactive board to conduct student training classes. Good computing facilities are available, through which various government examinations such as NEET and JEE are being undertaken.

Student Support and Progression

ASET has always been a student-centric institution. Student mentoring and support have been a primary focus of the institution, and they are mentored from admission up to the completion of their program at various levels. Thirty students in each class are assigned with a teacher class advisor to counsel and mentor the students. For the first-year students, one hour has been allotted in the timetable as student interaction hours. Counselors are

appointed by the management, who individually counsel every student when a requirement arises. Faculty members residing at the hostel are appointed as a hostel warden, who takes care of the students residing at the hostels.

The academic calendar proposed by the University is circulated among the students through various WhatsApp groups. Based on it, various departments plan their activities like association days, invited talks, technical events, etc. During these programs, students can interact with eminent professionals in several domains. The student affairs section of the institution provides information about various financial assistance available as scholarships to students. The training and placement section arranges for the campus recruitment. Committees such as students grievances, alumni, college council, sports council, etc., are well functioning in the institution. Girl students can address their grievances to the Women Grievance Cell (which also handles sexual harassment cases). Medical treatment in the hospitals of the Ahalia group is free for students, and a medical insurance scheme has been introduced to benefit the students. The physical education department provides avenues for sports and games through gymnasiums, courts, and tracks. Students actively participate in extension activities through NSS, IIC, IEDC, etc.

Governance, Leadership and Management

ASET is being run by a well-committed and organized management structure. Governing counil is the authority of the institution headed by the Chairman, assisted by the Principal. Heads of the Departments take advises from Principal. The Principal takes care of the day-to-day activities of the institution, and the Governing council advises him. Heads of the various departments and sections, including office and library, assists the Principal in academic and non-academic activities and ensures smooth functioning of the institution. The administrative machinery is well-knit and decentralized to carry out the functions on its own. The examination cell is headed by the exam cell coordinator, who plans and execu8tes the conduct of internal assessments, university end-semester examinations, etc. Both the academic and administrative activities are under the purview of the Principal. A culture of participatory management is practiced at all levels. Both the top-down and bottom-up approaches are used to implement policies effectively. At the department level, suggestions from the faculty are taken into account for academic and non-academic related aspects. Class and course committee meetings are conducted wherein student representatives can mark their suggestions for academic and non-academic matters. The Internal Quality Assurance Cell (IQAC) plays a proactive role in reviewing the current status and evolving the policies and suggestions to improve the quality of teaching and research. IQAC has been constituted as per the university's guidelines, and the accreditation agencies have the Principal as the chairperson. The institution's accreditation process, such as ISO certification, NAAC, and NBA accreditation process, etc., lies under the perspective of IQAC. The main objective of IQAC is to develop the system for conscious, consistent, and catalytic improvement in the institution's performance. It is a facilitative and participative voluntary system for quality enhancement by suitable intervention strategies. Through IQAC, the institution motivates the faculty to strive for quality improvement. Regular interaction among the Heads of the Departments and faculties is encouraged to pave the way for internal quality assessment of the institution.

Institutional Values and Best Practices

The mentor-mentee system has made a qualitative difference in the academic performance and instilled self-confidence among students. Each faculty member monitors the academic progress of a group of students and guides them to shape their professional career besides dealing with personal issues. The mentors also interact with parents if necessary.

Maintaining a weekly log of how the lesson plans have been transacted in the classroom.

More decentralized Governance by constituting committees to create a more inclusive ambience. Various committees have been constituted to address different issues in the institution. Such a practice has led to better governance, quicker redressal and decision-making.

Instilling social responsibility by making participation in NSS and professional body chapters mandatory for the students. Through these organizations, AIDS awareness programmes, blood donation camps, various health camps (through the hospitals run by AIF management), and socially relevant activities have been undertaken.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	AHALIA SCHOOL OF ENGINEERING AND TECHNOLOGY
Address	Ahalia Health Heritage Knowledge Village, Kozhipara (PO), Palakkad - 678557, Kerala
City	Palakkad
State	Kerala
Pin	678557
Website	www.ahalia.ac.in

Contacts for Communication					
Designation	**Name**	**Telephone with STD Code**	**Mobile**	**Fax**	**Email**
Principal	P. R Sreemahadevan Pillai	4923-226666	9447056075	-	principal.aset@ahalia.ac.in
IQAC / CIQA coordinator	G. Murugananth	4923-226666	9942116780	-	iqaccoordinator.aset@ahalia.ac.in

Status of the Institution	
Institution Status	Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular Day

Recognized Minority institution	
If it is a recognized minroity institution	No

Establishment Details	

State	University name	Document
Kerala	A.P.J. Abdul Kalam Technological University	View Document

Details of UGC recognition

Under Section	Date	View Document
2f of UGC		
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	03-07-2022	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?	No

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Ahalia Health Heritage Knowledge Village, Kozhipara (PO), Palakkad - 678557, Kerala	Rural	1500	10000

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	BTech,Civil Engineering	48	Higher Secondary	English,Malayalam	60	22
UG	BTech,Computer Science And Engineering	48	Higher Secondary	English,Malayalam	60	56
UG	BTech,Electronics And Communication Engineering	48	Higher Secondary	English,Malayalam	60	42
UG	BTech,Electrical And Electronics Engineering	48	Higher Secondary	English,Malayalam	60	19
UG	BTech,Mechanical Engineering	48	Higher Secondary	English,Malayalam	60	14

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				8				0				55
Recruited	8	0	0	8	0	0	0	0	25	30	0	55
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				0
Recruited	0	0	0	0
Yet to Recruit				0

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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				11
Recruited	7	4	0	11
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualificatio n	**Professor**			**Associate Professor**			**Assistant Professor**			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/ LLD/DM/M CH	0	0	0	0	0	0	0	0	0	0
Ph.D.	7	0	0	0	0	0	1	2	0	10
M.Phil.	0	0	0	0	0	0	1	1	0	2
PG	1	0	0	0	0	0	23	27	0	51
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers									
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/ LLD/DM/M CH	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**		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/ LLD/DM/M CH	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**	**Others**	**Total**
	0	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	70	0	30	0	100
	Female	42	0	15	0	57
	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	2	1	1	1
	Female	0	1	2	2
	Others	0	0	0	0
ST	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	55	74	64	37
	Female	42	40	36	20
	Others	0	0	0	0
General	Male	32	28	25	29
	Female	10	5	12	9
	Others	0	0	0	0
Others	Male	11	4	9	2
	Female	5	2	4	4
	Others	0	0	0	0
Total		157	155	153	104

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	The vision of Ahalia School of Engineering and Technology, is to grow as a centre of learning and research, transforming students to professionals with interdisciplinary knowledge, to serve the society. The

	institution is affiliated to APJ Abdul Kalam Technological University, Trivandrum, which has a blend of curriculum elements from an interdisciplinary approach to any of the programs. For example, the students of B. Tech Civil Engineering program undergo courses like Informatics for Infrastructure management, FEA etc., and the EEE dept. students are learning Soft computing, computer organization OOPS and Materials systems. The ECE students are learning OR, ML & AI and also studying OOPS. The curriculum itself contains Science and humanities courses like Engineering Communication, Professional ethics, Mathematics, Physics and chemistry. The program also contains courses like Industrial economics also. After the completion of the courses there are possibilities for the students to opt for a career in Management. The institution offers flexible and innovative curricula as per the University curriculum and syllabus that includes credit-based courses and projects like "Sustainable development, Environmental Engineering, Human values" in the areas of community engagement and service, environmental education, and value-based towards the attainment of a holistic and multidisciplinary education. Regarding the multidisciplinary flexible curriculum that enables multiple entry and exits at the end of 1st, 2nd and 3rd years of undergraduate education we oblige the directions from the university. The institutional management always encourages Faculty members to plan and engage in more multidisciplinary research as our management itself is involved in running multi-disciplinary organizations. It has been proposed to do atleast one interdisciplinary Final year project from each department.
2. Academic bank of credits (ABC):	The University Grants Commission (UGC) recently announced the creation of an "Academic Bank of Credits" (ABC) in higher education as a new initiative resulting from the National Education Policy. The ABC is a credit facility originally envisioned by the Government of India in the NEP 2020. The scheme has the provisions of creating a digital infrastructure that will store the academic credits earned by the students of various higher education institutions within the country. This policy is transforming India's education system by 2040.

	ASET is in the process of implementing the NEP and suitable action will follow. The ASET College shall abide by the curriculum and structure prepared by the affiliating university in this regard.
3. Skill development:	The college has put a lot of effort into helping students develop their soft skills and vocational skills abilities. In order to improve the skill, ASET Skill development team joined hands with local Kanjikode industries, local panchayat, NSS, NGOs and other sponsoring agencies to be partners and sponsors of skill-based courses. Additional Skill Acquisition Programme (ASAP) by Government of Kerala associated with ASET striving to enhance the employability status of the students, while offering voice and non-voice courses through the platform. The institution is extremely committed to offering value-based education to students, and to make this a reality, it has established several clubs and cells to promote the same. ASET conducts the Universal Human Value program as a pre vacation long term program to enrich human value and life skill subjects throughout the professional program provided by the curriculum and empower the Human value. Entrepreneurship Development Club, Nature Club, EnSAV Club and sport club used to enhance the various skills of the students. Through industry partnerships and connections with top institutions, the college will expand the range of skills courses it offers. IIC cell of ASET is conducting various programs and workshops to improve the skill to make successful start-ups. Through internships and practical training programmes, the college ties up with various industries.
4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):	Ahalia campus, is an integrated campus serving the society on the aspects of Health, Heritage and Knowledge. Students of Ahalia School of Engineering and Technology (ASET) involves in the various activities of the campus related to cultural and holistic significance. ASET literary club inculcates the students and provides them opportunity to show case their talents on the multidisciplinary languages, which include Malayalam, English, Tamil, Hindi, and Tamil. ASET in association with Palakkad District Library organizes and celebrates days of national importance, in specific, the language days. During the Onam occasion, ASET and Palakkad District Library, organized Poetry day for the public

	at Palakkad on 6th September 2022. By these means, the student's ability of the semantic and literary aspects of the languages are ensured. Languages influence the students to promote the culture and communicate with others such as family members, authorities, and strangers. ASET celebrated World Poetry Day on 21 March 2022 in association with UBA, NSS, ASET Literary Club, and Ahalia Forum. This program was presided by Dr. P. R. Sreemahadevan Pillai, Principal, ASET. Shri. Vayalar Sarathchandra Varma inaugurated the event by giving a poetic speech. 10 notable poets recited their poems and made the occasion memorable. ASET celebrated Kerala Piravi on 01 November 2021 with zeal and fervour. A gathering, observing the Covid protocol assembled in the front lawn of the College and sang the Nava Kerala Ganam as recommended by the Ministry of Higher Education, Government of Kerala. Dr. P. R. Sreemahadevan Pillai, Principal, led the celebration.
5. Focus on Outcome based education (OBE):	The Learning Outcome Curriculum Framework syllabi prescribed by the A. P. J. Abdul Kalam Technological University Academic Regulations for B. Tech, 2015 and 2019. These are subject to the provisions of the APJ Abdul Kalam Technological University Act, 2015, the statutes and ordinances if any issued in the subject from time to time. It is the express understanding that these regulations are subject to the approval of the concerned statutory bodies of the University with the final outcome expected of students (182 credits for 2015 scheme and 162 credits for 2019 scheme) of a particular B.Tech course at the end of the programme. They are in sync with expectations of the programme and the desired skills and knowledge to be inculcated in students. The outcomes are delineated clearly, and the teaching plans outlined like Course outcomes, program outcomes and program specific outcomes ect . This enhances the quality of education being imparted to them and frequent student faculty meetings help align pedagogy to the desired outcomes. The curriculum consists (162 credits - 2019 scheme) of Humanities and Social Sciences including Management courses, (Breakup of Credits 08) Basic and Engineering Sciences (Breakup of Credits 08), Engineering Science courses including workshop, drawing, basics of

	electrical/mechanical/computer etc (Breakup of Credits 22), Professional Core subjects (Breakup of Credits 66), Open and Professional Elective(Breakup of Credits 19)s, Project work, seminar and internship in industry(Breakup of Credits 10). Mandatory Student Activities(Breakup of Credits 2)Technical report writing and Language laboratory enhance written and verbal communication skills. Students learn various important concepts in professional core subjects and also advanced concepts in professional elective subjects which enhance their analytical and problem solving skills. The Project work /Internship taken up in the final year enables the students to consolidate their knowledge, write and present technical reports and learn the benefits of teamwork. Students are encouraged to carry out project work as interns in industry to meet NEP 2020. There shall be academic auditing at the stipulated intervals (minimum one per semester). The academic auditing shall be conducted jointly by an Internal Quality Assurance Cell (IQAC) within the ASET and external academic auditor(s) appointed by the University. The Internal Quality Assurance Cell (IQAC) shall oversee and monitor all the academic activities including all internal evaluations and examinations to meet NEP 2020.
6. Distance education/online education:	ASET is having online tools such as Google meet, that is being used for blended learning. These tools augment and enhance pedagogy. Online classes and Exams were held as per directives of the APJ Abdul Kalam Technological University, Kerala during the lockdown necessitated by the pandemic. ASET students can study many online courses from NPTEL SWAYAM and Coursera. The Students can study for their minor degree (additional degree) with four additional subjects and one mini project and Honors (above 8 CGPA) two subjects and two MOOC courses prescribed by the University. Special Programs and training are conducted during weekends to enhance the skill of the student to meet industry requirements. ASET is not authorized to have any programmes under Distance Education Mode in accordance with UGC notifications. In view of NEP, ASET also seeks to develop and provide certified online course in near future.

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
563	546	567	596	656

File Description	Document
Upload supporting document	[View Document]()
Institutional data in the prescribed format	[View Document]()

2 Teachers

2.1

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

Response: 60

File Description	Document
Upload supporting document	[View Document]()
Institutional data in the prescribed format	[View Document]()

2.2

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

2021-22	2020-21	2019-20	2018-19	2017-18
60	60	60	60	60

3 Institution

3.1

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

2021-22	2020-21	2019-20	2018-19	2017-18
294.21	224.87	319.72	364.49	336.54

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:

Curriculum Planning And Delivery

- **Programme Educational Objectives and Programme Specific objectives are framed by every department based on the curriculum .Each department deploys a uniform mechanism to ensure that these objectives are met.**

- **Our institution follows the Curriculum and Syllabi prescribed by the APJ Abdul Kalam Technological University, Trivandrum.**

- **Allocation of the subjects to the faculty is done based on qualification, area of specialization, experience and their preference.**

- **Elective subjects are selected based on the student's choice according to the syllabus. Faculty members give a list of electives that the student can select based on the curriculum of the university and students give their order of preference from which the most preferred course is selected.**

- **Our institution follows the academic schedule as per the academic calendar prescribed by the University. A course diary and a file per course are maintained by the faculty member as per University and ISO requirements.**

- **Once the subject is allocated, based on the academic calendar received from the university, faculty members prepare their course diary and course file.**

- **Heads of the Departments do a weekly review of the portions covered by the faculty members and also the students' attendance and the Head of the Institution makes a monthly review.**

- **Two Internal Assessment Tests and Assignments are the tools to measure the performance of the students internally and University Examination are conducted as per the University schedule for their final assessment.**

- **To enrich the knowledge of students, faculty members adopt different techniques, such as assignments, NPTEL/other online lectures, case studies, projects, field trips, conferences etc., (whichever is required as per the course) apart from regular/traditional chalk and board methods with modern teaching facilities.**

- **Feedback is obtained from the students twice in a semester to enhance the teaching-learning**

process. The feedback is collected via online with a format compatible to the one prescribed by AICTE and the information collected is compiled and scrutinized by the Head of the Department and Head of the Institution.

- **There is a well-defined process for the conduct of CIE as per the calendar of events. The course instructors prepare internal assessment question papers based on the syllabus along with the scheme of evaluation and checklist reviewed by the question paper scrutiny committee coordinator and approved by the Department Head**

Academic Calendar and Conduct Of Continuous Internal Assessment

- **Our institution strictly adheres to the academic calendar prescribed by the University on the academic aspects and plans all its activities including the conduct of Continuous Internal Evaluation (CIE).**

- **Academic calendar received from the University is circulated to all faculty members and staff including exam cell coordinator, faculty of physical education, librarian & placement officer.**

- **On the basis of Academic Calendar timetables are prepared for each program. The time table includes theory and laboratory hours, details of staff handling the subjects and the workload of each faculty for that semester.**

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

1.2 Academic Flexibility

1.2.1 Number of Add on /Certificate/Value added programs offered during the last five years

Response: 32

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

1.2.2 Percentage of students enrolled in Certificate/ Add-on/Value added programs as against the

total number of students during the last five years

Response: 15.92

1.2.2.1 **Number of students enrolled in subject related Certificate/ Add-on/Value added programs year wise during last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
27	143	206	61	29

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 into the Curriculum

Response:

- Curriculum is designed by APJ KTU, which included various topics/chapters covering cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics.

- The institution took care to focus on these issues. Environmental Studies is a compulsory subject for all under students, related to Environment and Sustainability. Similarly, Cross cutting issues relevant to Gender, Human Values and Professional Ethics are covered in the prescribed syllabus of University in various subjects. Institution offers courses viz. Sustainable Engineering, Professional ethics, Life Skills and Human Values as per the curriculum of affiliated universities.

- Life skills and human values have been offered as core courses as per Calicut university, whereas Sustainable engineering, life skills and human values are offered as core courses as per APJ KTU. Professional ethics is being offered as a course under both university curriculum.

- Ahalia School of Engineering and Technology, Palakkad provides a vibrant platform to impart holistic education for students. The college has initiated many programmes, including NSS, Women Cell, Legal Awareness Cell, Anti ragging cell and value added courses to enhance institution's neighborhood community interface. Right from the inception, the institution has always strived to achieve activities not limited to technical education, but to nurture students as a responsible citizen.

- As a part of the movement, the college along with its parent institution has joined hands in consistently improving its infrastructure which is integrated to environmental protection and

promoting sustainable surroundings.

- Ahalia is enriched with its impeccable resources and self-sufficient method in dealing with such accomplishments is highly acclaimed throughout the state. Situated around 2300 acres of land, Ahalia School of Engineering has its own ear marked area inside the Ahalia integrated Campus. Institution provides an inclusive environment for everyone with tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities.

- Commemorative days like Women's day, Yoga day, Cancer day, Earth day along with many regional festivals like Onam and Christmas are celebrated in the college. This establishes positive interaction among people of different racial and cultural backgrounds.

- There are different grievance redressal cells in the institute like Student grievance redressal cell, Women grievance redressal cell which deal with grievances without considering anyone's racial or cultural background. Institute has a code of ethics for students and a separate code of ethics for teachers and other employees, which have to be followed by each one of them irrespective of their cultural, regional, linguistic, communal socioeconomic and other diversities.

- Many international and national days has been celebrated in our college like Independence Day, Teachers Day, Engineers Day, International Women's Day, World Earth Day etc. The programmes conducted on behalf of these days are opportunity for students to showcase their talents and exercise their creativity through different media such as art, music, dance etc.

- The institute organises project exhibitions and also conducts technical events. Institution takes special efforts to promote technical culture by organising activities under various professional bodies.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

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

Response: 18.65

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

Response: 105

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 (Yes or No)

Response: Yes

File Description	Document
Upload supporting document	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Enrolment percentage

Response: 47.8

2.1.1.1 **Number of students admitted year wise during last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
152	153	153	105	154

2.1.1.2 **Number of sanctioned seats year wise during last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
300	300	300	300	300

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

2.1.2 Percentage of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (Exclusive of supernumerary seats)

Response: 38.13

2.1.2.1 *Number of actual students admitted from the reserved categories year - wise during the last five years*

2021-22	2020-21	2019-20	2018-19	2017-18
17	30	29	13	54

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

2021-22	2020-21	2019-20	2018-19	2017-18
75	75	75	75	75

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

2.2 Student Teacher Ratio

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

Response: 9.38

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 using ICT tools

Response:

Our Institute has deployed several practices for active participation of students in the Teaching-Learning Process.

Experiential learning

Few of the appreciable practices which yielded good results are listed below:

1. **Google Forms are used for Individual and Group assignments based on the level of perseverance to enhance students' self-teaching-learning activity**

2. **Students clubs conduct Weekly Quizzes and Competitions Students' IEDC is enhanced by providing opportunities to operate outside of their perceived comfort zones with more interdisciplinary projects.**

3. **Industrial Visits are organized to enhance students' learning experiences.**

4. **Google classrooms provide an interactive teaching enviornment for students and enriches the feel of tutorial sessions of students.**

5. **Dismantling of machines was done to incorporate experiential learning among mechanical engineers**

6. **Students from EEE Department were actively involved in making of sanitiser machine**

   Participative Learning

7. **Add On Courses: Add on Courses are provided at College level and certificates are issued for the same**

8. **Best Outgoing Student: College aims at all round development of students and provides awards for best outgoing student and University toppers**

9. **Well organized student chapters are formed with support from various professional bodies like ISTE, CSI, IETE, IEI, IEEE etc. for students to organize reputed International/National events**

10. **Programming contest and Hackathons to build their problem solving and Analytical skills. Internship opportunities empower the learners to augment them with learn-by-doing skills.**

11. **Aptitude and Programming Training by external experts are done at regular intervals**

12. **Group competitions like idea pitching competitions were conducted**

13. **Orientation Programme: College offers Orientation Programme for First year students. The goals of the orientation programmes are to create students familiarity with the institution's regulations and academic standards**

14. **Communication Skill and Language Culture: College provides newspapers, magazines, journals, add on courses like professional English and proficiency in English to promote the communication skill and language culture.**

    Employability Enhancement Programmes: These Programmes are organized under the Placement Cell of the College for students to set their goals.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for 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: 93.75

2.4.1.1 **Number of Sanctioned posts / required positions for teaching staff/ full time teachers year wise during the last five years:**

2021-22	2020-21	2019-20	2018-19	2017-18
60	60	60	60	80

File Description	Document
Upload supporting document	[View Document](#)

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

Response: 13.33

2.4.2.1 **Number of full time teachers with NET/SET/SLET/Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
11	6	8	7	8

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[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 internal assessment of the institute is designed to be transparent & robust

1. **Internal or series tests are conducted as per the University norms.**

2. **They are scheduled as per the academic calendar of college/university.**

3. **The exam cell collects the details of various courses offered by the department in the current semester including no. of students and staff handling the courses.**

4. **The exam cell circulates the internal examination schedule to the sta? and students.**

5. **The sta? invigilation schedules are informed to the sta? three days before the start of the examinations.**

6. **The examination halls are decided by the exam cell and hall-wise seating arrangement is displayed on the notice board.**

7. **One week before the start of the exam, one set of question paper is submitted to the exam cell by the class advisor, with the approval of the Scrutiny committee of the department and HoD.**

8. **Invigilation duty chart is prepared by the exam cell coordinator.**

9. **Exams are conducted as per the University procedure.**

10. **Exam booklets/papers are submitted to the exam cell after completion of the exam.**

11. **Exam booklets/papers are handed over to the concerned faculty on the same day. Evaluated exam booklets/papers are submitted to the exam cell within five working days after completion of the examination. Retest for the students will be conducted as per the procedure specified by the university.**

The Institute has well established and defined processes relating to examination grievances redressal. This Process addresses Grievances related to the internal evaluation marks, which are referred to the Principal of the institute through Academic coordinator. Then the Principal, concerned subject teaching faculty and Academic coordinator address the grievances on the basis of information collected and the university regulations. Complaints redressal at the institute follows the same stands as that followed by the university. Grievances and queries related to the end semester examination are recorded by the examination section and submitted to the university for corrective action. Internal examination question papers are set by the faculty members engaging the concerned subjects and end semester examination question papers are set by KTU appointed examiners. Junior supervisors are appointed for invigilation masking of papers and Central Assessment of answer Papers (CAP) is conducted at Institute level for fair assessment of papers. End semester examination: For smooth conduct of University theory examination, Appointment of examiners is done by KTU.

KTU appoints an external senior supervisor to monitor the whole examination process in a fair and transparent manner, for smooth conduct of University theory examination. Senior Supervisor is appointed who looks after overall conduct of the examination. Junior supervisors are appointed for

invigilation.Same process will be followed by the Internal squads of the institute.

Principal and Academic coordinator conduct a meeting with all faculty members before every examination regarding the smooth conduct/implementation of examination rules, where all faculty members can give their suggestions on various aspects of examination and evaluation based upon the previous examinations. This enables further improvement in the subsequent examination and evaluation.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for 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 and attainment of POs and COs are evaluated

Response:

Attainment of Programme Outcomes and Course Outcomes are evaluated by the institution.

Course Outcomes (COs) are statements that clearly describe the meaningful, observable, and measurable knowledge, skills, and/or dispositions that students will learn in the course. Assessment of Course Outcomes refers to strategies designed to confirm what students know, demonstrate whether or not they have met curriculum outcomes or the goals of their respective programmes.

Assessment of COs

1. **The COs should be prepared by the faculty member in charge after carefully reviewing the syllabus contents.**

2. **The number of COs should be kept to a minimum of one per module for theory courses and no more than a certain number of experiments for practical courses.**

3. **If the University specifies the COs, faculty must strictly adhere to.**

4. **Once the COs have been finalized, the mapping between COs and POs and COs and PSOs must be completed. The HoD must sign off on this.**

5. **Assessment is done using both direct and indirect tools, the tools and their weights are specified in the regulations.**

6. Only direct tools (Internal marks and university exam grades) are used to assess CO attainment.

7. For 2015 university regulations, internal marks are calculated based on internal tests and assignments, while for 2019 regulations, they are calculated based on internal tests, assignments, and attendance.

8. Both tools are given an equal weightage of 50 percent.

9. The following rubrics are considered for both the tools for the attainment of CO assessed:

   1. For Internal Marks:

- 50% of the students securing ? 23 Marks, attainment = 1

- Attainment is 2, If it is 60%

- Attainment is 3, If it is 70%

   1. For University Exam Grades:

- 40% of the students securing grade ? P, then attainment = 1

- Attainment is 2, If it is 50%

- Attainment is 3, If it is 55%

   1. From these, CO attainment is calculated as:

CO Attainment = attainment through internal marks x weightage for internal marks

+ (attainment through University grades x weightage for University grades)

   1. The CO is attained if the attainment is equal to or greater than the target. If not, appropriate steps and an action plan should be proposed and implemented so that the CO is achieved for the next batch of students.

Assessment of POs

1. **PO assessment and its attainment is ensured through overall CO attainment (direct tool) and the indirect tools.**

2. **Weightage for overall CO attainment is fixed as 85%.**

3. **PO attainment through CO attainment is calculated as follows:**

PO Attainment through CO=(CO & PO Mapping Average (target for that PO)) x 8.3 CO Attainment for that individual course

1. **The indirect tools considered are: Programme end survey (5% weightage), Alumni survey (5% weightage) and Employer survey (5% weightage)**

PO Attainment = 85% of PO attainment in Direct Tools + 15% of Indirect Tools

1. **If the attainment is equal to or greater than the target, then that PO is attained. If not, appropriate steps and an action plan should be proposed and implemented so that the PO is attained for the next consecutive batch of students.**

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

2.6.2 Pass percentage of Students during last five years

Response: 77.75

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

2021-22	2020-21	2019-20	2018-19	2017-18
52	115	129	170	128

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

2021-22	2020-21	2019-20	2018-19	2017-18
105	147	165	182	165

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.49

File Description	Document
Upload database of all students on roll	[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: 6

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

2021-22	2020-21	2019-20	2018-19	2017-18
1	0	0	2	3

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 and has initiatives for creation and transfer of knowledge

Response:

Exploration and reflection are crucial for any teacher to be effective in one's job. Quality research outcome is beneficial for the discipline, society, industry, region and the nation. Sharing of knowledge especially theoretical and practical findings of research through various media enhances quality of teaching and learning. Research acumen in an institution is an evolving feature reflecting various research output with clear records such as - doctoral, post-doctoral, projects, inventions and discoveries, number of patents obtained and number of research publications.

Details of patents awarded for the faculties:

- Dr. Murugananth Gopal Raj." Embedded Real-Time Finger-Vein Detection Based Advanced Security System" 04-09-2020- 202041035424 A Published.

- Dr. Murugananth Gopal Raj." A Rule based Rootkit Detection Method using Machine Learning in Embedded IoT Devices" 30-09-2020- 2020102099 Published.

- Dr. Murugananth Gopal Raj." IoT based Smart Device for Pollution Control and Traffic

Management System" 26-02-2021- 202041056676 A Published.

- Dr. Murugananth Gopal Raj." UAV's for Disaster Identification and Alert System" 02-04-2021- 202141012121 A Published.

- Dr. Murugananth Gopal Raj." Artificial Intelligence Based No-Ball Detection in the Cricket Field" 10-12-2021- 202141053537 A Published.

- Dr. Murugananth Gopal Raj." An IoT Based Face Mask Vending Machine" 14-01-2022- 202121054459 A Published.

- Dr. Murugananth Gopal Raj." Headlamp Beam Shifting Apparatus and a method to operate the same" 06-04-2018- 2.01841E+11 **Under Examination**.

- Dr. Murugananth Gopal Raj." Vehicle Identification Device with wireless communication system and a method thereof " 23-02-2018 - 2.01841E+11 **Under Examination.**

- Dr. R Sivakumar "Self Navigated Smart Dustbin and a method for operating the same" 11-02-2022- 20224 1005767 A Published.

- Dr.S.Gunasekaran , Dr.V.Balamurugan " Geospatial Technology in Precision Agriculture using IoT" 10-09-2021- 202141038829 A Published.

- Dr. John Alexis S , " Method and System for Remotely Adjusting Height and Angle of a Wall Mounted Television Fixer" 30-3 - 201741012456 Published.

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: 179

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**

2021-22	2020-21	2019-20	2018-19	2017-18
56	67	20	18	18

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: 0.65

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

2021-22	2020-21	2019-20	2018-19	2017-18
5	10	5	5	14

File Description	Document
Upload supporting document	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: 0.32

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**

2021-22	2020-21	2019-20	2018-19	2017-18
5	11	1	1	1

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

3.4 Extension Activities

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

Response:

Various extension activities are conducted through NSS, IEDC, Nature club, Unnath Barath Abhiyan, Ensav club etc. The National Service Scheme (NSS) is a Central Sector Scheme of Government of India, Ministry of Youth Affairs & Sports. The sole aim of the NSS is to provide hands-on experience to young students in delivering community service. Activities of NSS are legal awareness class, personality development class, flood relief work, flood rehabilitation activities, blood donation camp, anti-drug awareness class, anti-dowry campaign etc.

The Innovation and Entrepreneurship Development Center (IEDC) in Ahalia School of Engineering and Technology is an initiative of Kerala Startup Mission under Startup Bootcamp Scheme of Government of Kerala. Under this scheme, financial assistance is given to selected colleges for supporting innovative products and thereby building an entrepreneurial ecosystem inside the campus. The activities of this club are planned and augment the output of the members of the club and thereby impart these values to the student community as a whole. IEDC conducted activities such as design and creativity workshops, seminars on entrepreneurship and patenting etc.

ASET is recognized as a participating institute under Unnat Bharat Abhiyan, which is a Government of India initiative aimed at the upliftment of the villages. The UBA cell of Ahalia school of engineering and technology executed a wide spectrum of activities in the arenas of health, education and hygiene. UBA entailed programs like Community Meetings and Lectures on Health and Hygiene, Educational Awareness Drives etc.The UBA cell also conducted some education-centric activities to cater to the doubts related to recent shifts in the Education sector and to address the rising insecurities of students.The UBA has adopted Elapully grama panchayat having two villages and is conducting a comprehensive survey there. Based on the survey, projects are proposed to be taken up for the holistic development of the entire Panchayat having a population of over 40000 and around 10000 households.

The objective of nature club is to develop an awareness of nature and encourage an interest in the natural environment among its members and the community through meetings, talks, field trips etc. Nature club activities in ASET include green movement, green Ahalia, handicraft competition with waste materials, etc.

EnSAv (Energy Saving Awareness) Club focuses on bringing about a first-hand realization of the energy crisis and scarcity of natural resources in the country. Recognizing the immense value the Professional Students can bring to the initiative and taking due consideration of this urgent need, GREEN9 started EnSAv Club, to propagate efficient usage of energy and to educate the society on climate change issues in the forthcoming years.

EnSav club at ASET allows the students to showcase their talents and concern towards energy conservation and the importance of implementing renewable sources.The major activities of the club include seminars, quiz and poster making competitions on energy conservation. The students are also introduced to electricity conservation tips, meters & its components and how it can be read. Energy conservation booklets containing electricity conservation and safety tips are distributed to the students. They are encouraged to practice it and also to share their knowledge & information about the need of

energy conservation to achieve it, etc. to the society through their friends & neighbours.The club printed thousands of stickers and distributed in schools,Government offices and public places in Palakkad district.

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

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

Response:

ASET received the District Collectors Award for promotion of voting rights awareness in Palakkad district.With the help of our activities, the district Collector received the best Collector award from the Election Commision of India for thr promotion of voting awareness in the district.The college organised meetings,published poems and used its NSS volunteers for this activity.

During the academic year 20-21, Green9 Ensav Award and Green9 Ensav Best Advisor Award was received by Ahalia school of Engineering and Technology on the banner of Ensav Club.Green9 EnSAv club is a constituent of the Institution of Green Engineers, an international organisation with its head quarters at Chennai. The main objective of this club is to promote energy conservation activities among the public. Also they concentrate on creating awareness and striving hard towards the sustainable development goals viz SDG 7, SDG 9 and SDG 13.

For the past two years ASET GREEN 9 EnSAV Green9 Ensave Best Advisor Award club formed by eee department with Dr. Murugananth, Professor and Head, EEE department as faculty advisor has conducted many programs to create awareness among students, staff and public. In association with Energy Management center, Trivandrum the club has conducted walkathon and signature campaign to promote energy conservation activities. Energy audit has been conducted at certain areas viz. Ahalia medicine manufacturing unit (as students project), ASET etc.

With these activities of the club, we have been nominated for the following awards of the institution of green engineers during the two day SDG Conclave organised by them during 2nd and 3rd October 2020. This was an online event, where 14 Green 9 ENSAV clubs of various institutions presented their activities and delivers talks on SDG 7, 9 & 13.

The nominations are for

1. Premier ENSAV club Award

2. Best ENAV faculty advisor award

3. Best student ENSAVER award

ASET GREEN 9 ENSAV club also took part in it at 12.30 pm to 01.30 pm.on 2nd October 2020.The event was telecasted in YouTube as live program and was watched by more than 10000 viewers. At the valedictory function of the SDG conclave, the results of the awards were announced, which said that we received all the three awards for which we made our nominations.

File Description	Document
Upload Additional information	[View Document](#)

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

Response: 223

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

2021-22	2020-21	2019-20	2018-19	2017-18
71	57	40	28	27

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[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: 15

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

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 Availability of adequate infrastructure and physical facilities viz., classrooms, laboratories, ICT facilities, cultural activities, gymnasium, yoga centre etc. in the institution

Response:

Ahalia School of Engineering and Technology (ASET) established in the year 2012, is one among the educational institutions of Ahalia International Foundation. The college is approved by All India Council of Technical Education (AICTE) and is affiliated to A P J Abdul Kalam Technological University, Kerala. Ahalia School of Engineering and Technology offers five Bachelor of Technology (B.Tech.) courses in Civil Engineering, Computer Science and Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering and Mechanical Engineering. The college possesses a good infrastructure with a pleasing environment, which is ideal for students for their holistic development. The college building comprises well equipped classrooms with ICT facilities, tutorial rooms, seminar halls, laboratories, Entrepreneurship Development Cell and Library.

ASET promotes a wide range of sporting events in the college campus. The college is well equipped with most of the sporting equipment for the students and staff to develop their physical and intellectual capabilities. The college conducts sports events like inter-college and intra-college athletic meets, cricket and football tournaments etc. The college has a playground for the conduct of co-curricular activities in the college and sports events. There is a basketball court for the faculty and students of the campus. The campus has a football ground as well as provisions for conducting the athletic meets inside the campus with a 400 m track capacity. Indoor games provisions include table tennis and shuttle badminton courts. Annual athletic meets are conducted every year to bring up the emerging athletes among the students.

The campus has well established gym facilities for the students as well as faculty. The facilities include a wide range of weight lifting equipment and machinery for cardio exercises. The gymnasium is equally divided for both males as well as females along with physiotherapists. The students and faculty can avail these facilities in free time for improving their physical and mental health and lead a beautiful college life.

ASET is equipped with calm and quiet yoga training facilities inside the campus. It provides a peaceful atmosphere for the students and all the members of staff and family members to practice yoga. We have trained yoga trainers inside the campus. Yoga is usually practiced in the morning and evening sessions. Yoga training sessions are conducted for a duration of 3 weeks. The college celebrates international yoga day every year.

ASET promotes a wide variety of cultural and technical activities in and outside the campus. Arts and sports days are conducted to promote the cultural and physical skills of the students. Different cultural events like inter college and intra college competitions are conducted regularly with active student participation.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

4.1.2 Percentage of expenditure, excluding salary for infrastructure augmentation during last five years (INR in Lakhs)

Response: 6.91

4.1.2.1 **Expenditure for infrastructure augmentation, excluding salary during the last five years (INR in lakhs)**

2021-22	2020-21	2019-20	2018-19	2017-18
10.03	10.75	20.25	28.21	37.12

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS), subscription to e-resources, amount spent on purchase of books, journals and per day usage of library

Response:

The ASET Central Library aims at providing access to its printed resources such as books and journals as well as electronic journals and online databases primarily for the use of students, faculty and staff of ASET. The library stock is 15370 books and increasing at a rate of 1,250 plus books a year. The library also subscribes to over 39 current periodicals and to a range of electronic journals and databases. The College Library is administered by the Library Committee, consisting of HoD of ECE as Chairman, Librarian as Convenor, and one staff from each Department as committee members. The day-to-day running of the library is conducted by the librarian who is assisted by the library staff.

Any member of ASET may recommend the purchase of a desired or relevant book to the librarian. The requirement of books has been discussed by each department and the department faculty library-in-charge prepares the list of books required in the specific format and hand over to the librarian. The required list is discussed in the library committee meeting and will be sent for approval by the Principal. Some of the general and reference books needed by the library are purchased by the Librarian in consultation with the convener of the Library Committee. All the books are purchased as per the AICTE and KTU Norms.

Digital Library

The library offers at present 9 User Computers that are on the network for users to access the internet, online journals, and other databases. Computer facilities are provided for academic work. Users are not permitted to install any software or programs on any of these PCs

OPAC Facility (Online Public Access Catalogue)

The Library's Online Public Access Catalogue (OPAC) can be accessed on the Internet and Intranet to search all the bibliographic records available in the Library database. The OPAC can be searched by author, title, subject, keywords, and publisher which is available 24 hours.

Library E-resources

The library is a member of the DELNET for the last 7 years. It is being extensively used for ILL and searching the database of other member libraries. The library has become a member of the NDL (NATIONAL DIGITAL LIBRARY OF INDIA) to access the vast e-resources that are available on the Delnet database. The library has internet facility through which the e-resources could be accessed.

Library Automation

The library is fully automated and Koha (Koha version 21.05.08.000) is the software used for Circulation, Procurement, OPAC, and Project Reports. All the library documents are bar-coded and books are issued to users by reading the barcode of the document. An email alert facility is also enabled for all the Circulation. Koha is very versatile open-source Software and is extensively used for generating all the reports that are required in day-to-day requirements of the library.

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

Response:

The college has its own computer labs with faster internet access facility for providing the students with greater opportunities to hone their talents and knowledge skills, helping them to remain updated on emerging trends and technologies. The college concentrates on upgrading its facilities by including the state-of-art technology in hardware and software available within the country and abroad. Students get the best computer setup which includes different Operating systems, Computer Networking, Multi-OS-Access, and Multimedia Setup with GUI, software packages like Matlab etc., as well as emerging high-level languages. The Network laboratories enable students to do their network projects on real world problems. Use of the lab is restricted to the current students, faculty and staff. The computer lab-III is equipped with systems that contain various Linux based open-source software and open-source software tools that enable students to practically learn the open-source software programming. Students can work on the various projects parallely using various open-source version control software. Use of the lab is restricted to the current students, faculty and staff.

Our college frequently updates the IT infrastructure to enable advanced teaching-learning process. The college has 3 internet connectivity with wired and Wi-Fi hotspots with extenders. All computers in the campus are connected to the internet. The basic plan of Google workspace for education has been enhanced to education plus version. Operating Systems of 90 computers have been upgraded to Ubuntu from Windows to support Open-source software. Internet leased line connection bandwidth is 100 Mbps. With the support of Kerala State IT Ltd., a smart conference room has been implemented including Smart TV, microphones, speakers and rotating cameras.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

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

Response: 3.25

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

Response: 173

File Description	Document
Upload supporting document	[View Document](#)

Other Upload Files	
1	[View Document](#)
2	[View Document](#)
3	[View Document](#)
4	[View Document](#)
5	[View Document](#)
6	[View Document](#)
7	[View Document](#)
8	[View Document](#)
9	[View Document](#)
10	[View Document](#)
11	[View Document](#)

4.4 Maintenance of Campus Infrastructure

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

Response: 53.49

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)**

2021-22	2020-21	2019-20	2018-19	2017-18
174.45	106.04	201.83	179.53	161.87

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[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 Government and Non-Government agencies during last five years

Response: 13.05

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government and Non-Government agencies year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
65	64	95	69	89

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

5.1.2 *Capacity building and skills enhancement initiatives taken by the institution include the following*

>   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
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[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: 23.16

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**

2021-22	2020-21	2019-20	2018-19	2017-18
125	151	149	101	152

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

5.1.4 The Institution has a transparent mechanism for timely 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: A. All of the above

File Description	Document
Upload supporting document	[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: 35.12

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

2021-22	2020-21	2019-20	2018-19	2017-18
100	36	57	38	57

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

2021-22	2020-21	2019-20	2018-19	2017-18
153	141	167	178	181

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

5.2.2 Percentage of students qualifying in state/national/ international level examinations during the last five years (eg: JAM/CLAT/GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)

Response: 100

5.2.2.1 *Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ Judicial Services/Public Prosecution services/All India Bar Exams/State government examinations) year wise during last five years*

2021-22	2020-21	2019-20	2018-19	2017-18
1	1	4	1	1

5.2.2.2 **Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year wise during last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
1	1	4	1	1

File Description	Document
Upload supporting document	[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: 9

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

2021-22	2020-21	2019-20	2018-19	2017-18
0	0	5	4	0

File Description	Document
Upload supporting document	[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: 7.4

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

2021-22	2020-21	2019-20	2018-19	2017-18
4	0	6	15	12

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 Alumni Association was formed in the year 2016 under the title ASET ALUMNI ASSOCIATION.

The alumni meet is conducted once in a year. The alumni association committee consists of a President, Vice-President, Secretary, Joint Secretary, Treasurer and executive members.

The Alumni donates their valuable time to offer career support to current students. Their interaction with

the students and their visit to the institution motivate the young minds. The alumni also help the students for their projects and give them technical supports. An engaged Alumni network allows the College to benefit from the skills and experience of our graduates, by offering their support to our students. One of the main purposes of alumni association is to support a network of former graduates who will, in turn, help to raise the profile of the university.

The Alumni helps our students for higher studies and placement. Talented alumni will likely have a wealth of experience and skills to share with current students via talks, meetups and newsletters. Alumni are the first ambassadors for any institution. Many of the Alumni are often generous with fundraising efforts for their activities. This philanthropic support is invaluable for the institution.

Present office bearers of the Association are:

Principal Dr. P.R.Sreemahadevan Pillai, President,

Mr. Dhanesh S and Mr. Swaroop K Ravindran, Vice President,

Ms. Lakshmi Suresh and Ms. Hardhi, Secretaries.

Executive committee members

Dr. Krishna Kumar Kishor, Dr. G. MUrugananth, Dr. V. Balamurugan, Dr. S. Gunasekharan,
Dr. Binoy Balan, Prof. Prakash D, Mr. Abhijith V and Ms. Kripa K M from the faculty side,

Ms. Anagha C, Ms. Reshma R, Ms. Maria Rose Johnson, Mr. K. Sakthiprasad, Mr. Muhammed Anees, Mr. Khaleel Rahman, Mr. Subin N N, and Mr. Tony Titus from the alumni.

The ASET Alumni Association organized a webinar on the topic 'Interior Design in Civil Engineering' that was presented by Ms. Maria Rose Johnson of Civil Engineering department. The talk inspires the young Civil Engineers to study more on Interior designing and new trends in interior designing.

The second webinar organized by the Alumni with the help of Mr. Jithin P of our Mechanical Engineering department helped the students to crack the Gate exam with confidence. Mr. Tony Titus of Civil Engineering department gave a talk on the topic 'New trends in Construction'. He is one of the co-founders of a construction company. As he was a successful entrepreneur, students were well attracted in his talk and the new advancements in the field of Civil Engineering.

Ms. Sreya Sasi has given a talk on career opportunities in Australia. The talk was based on her experience that motivated our students to fly abroad for their studies and job. The session handled by Mr. Swaroop Kunnampully of 2012-16 batch on Civil Engineering was very attractive, who was a state award winner and an expert in the field of agriculture. The session well explained that engineers has a prominent role in the field of agriculture also.

File Description	Document
Upload Additional information	[View Document](#)
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Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance and leadership is in accordance with vision and mission of the institution and it is visible in various institutional practices such as decentralization and participation in the institutional governance

Response:

Ahalia school of engineering and technology is an educational institution run by Ahalia Inernational Fundation and is approved by AICTE, New Delhi and affiliated to APJ Abdul Kalam Technological University, Trivandrum. The institution was established in the year 2012 and continues as a higher education centre in Palakkad.

The institutions' foundation aims in growing as a centre of learning and research, transforming students to professionals with knowledge, skill, competence, commitment, confidence, and ethics to serve the society. Empowering students for their holistic development through education and achieving excellence through determined effort without compromising the service to the society stands as the supreme objective of the institution. The institution is also focussed on framing young minds into socially responsible and aware citizens by creating a sense of discipline among the students.

Nature of Governance

The Institution sets a model through its governance and administration with the objective of moulding the students as socially responsible citizens. The governing principles are effectively implemented at all levels of various decision-making bodies like Governing council, Students council, IQAC etc., that address the academic and non-academic issues. The decentralization of powers in administrative processes and academic activities promote the participation of members of management and faculty. The institution, thus, ensures transparency and accountability in all its activities. The management considers the proposals of expenditure and approves them when they are in line with the Institution's strategic plan. The IQAC conducts internal academic audits at regular intervals as prescribed by the University, and ISO requirements. External academic audits are scheduled and conducted by the University, which is being coordinated by the IQAC of the institution.

Decentralization and Participative Management

The college has an authority at all levels of the institutional hierarchy which empowers the individual participation starting from Principal to students at the college. The college operates independently under the guidance of the Governing Council. Principal delegates his powers to Vice Principal, Heads of the departments, Administrative Officer, Librarian, NSS officer, Training and Placement Officer and Exam Cell coordinator etc. They meet regularly to decide upon various activities and effective functioning of the college. The institution practices decentralization and participatory management in keeping with its belief incollective leadership and democratic traditions.

The principal serves as the academic and administtative head, whereas the teachers are members and conveners of various committees that are formed for the day-to-day functioning of the college. Teachers, through their autonomous interaction in these committees, contribute in a significant way to the participatory management of the institution. Administrative officer provides administrative support to

academics. The Librarian acts as a channel between the library and its users. He looks after general maintenance of the library in terms of reading materials and infrastructure. The Exam Cell of the college makes proper arrangements for question paper setting, printing of question papers and all other incidental matters in connection with the smooth running of examinations.Training and placement officer acts as a referral of participants to job placement and coordinate job search. Office assistants handle organizational and clerical support tasks.

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 functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, deployment of institutional Strategic/ perspective/development plan etc

Response:

The institute has a vision to be a centre of excellence in Education and Technology committed towards socio economic advancement of the country. The leadership of Ahalia School of Engineering and Technology is through participative management all the way through a structured organizational system with the involvement of all the stakeholders. The hierarchy of the college administration has 4 levels. The top three levels include the governing body, Chairman, and the Principal respectively. The fourth and subsequent levels include various positions and operations under the supervision of the Principal. These operations and positions include Vice Principal, HODs, faculty and non- teaching staff, Office Administration, exam cell in charge, librarian, and various other standing committees. Each of these categories involve various subsections of activities where an individual or group is assigned duties and responsibilities.

This includes excelling in teaching learning process, enhancing research capacities and outcomes, institute and industry interaction, extending collaborations and capacity building efforts, enabling inclusive and sustainable growth and promoting self-learning.

ASET has been awarded the ISO 9001:2015 certification whose scope is provision for academic administration, management, and administrative support services for conducting educational programmes with the award of credits and grades. Detailed quality manuals mapping processes with key performance indicators have been prepared and deployed.

ASET successfully implemented this important aspect of the Strategic Plan through a number of initiatives. One of the successfully implemented activities based on our strategic plans are ASET students' placements in various institutions of Ahalia Foundation. Ahalia Group has been established in UAE and India which includes both Ahalia Group UAE and Ahalia Health Heritage and knowledge Village, Palakkad. It constitutes more than 100 organizations which includes Ahalia School of Engineering & Technology, Ahalia School of Management, Ahalia School of Pharmacy, Ahalia Foundation Eye Hospital etc. In Ahalia School of Engineering and Technology (ASET), we provide placements for ASET students in Ahalia group. That encompasses international and domestic Placements.

Ahalia Group has various projects such as Ahalia 1 MW Solar power plants, 8.4 MW wind plant, Ahalia Biogas plants, Construction of buildings for Colleges and hospitals, etc. So ASET students are placed in these projects as Project Engineers, Technical Staff, Maintenance and supporting Staff, etc. Also, Ahalia Foundation has a dedicated IT Department. The students from Computer Science Engineering and Electronics and Communication Engineering are placed here. Ahalia is an integrated campus. So, the various engineering field students have an opportunity to be placed in Ahalia Integrated campus itself. A rural IT park is being constructed by Ahalia Group. Students of ASET, who are interested to become entrepreneurs will be given

preference to have their start-up in the IT park.

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

6.2.2 Implementation of e-governance in areas of operation

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

Response: A. All of the above

File Description	Document
Upload supporting document	View Document

6.3 Faculty Empowerment Strategies

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

Response:

Welfare Activities

    Ahalia School of Engineering is a green eco-friendly campus which helps to build up a perfect work life balance for the faculty. We have a heritage village in the campus with an art museum and a lot of paintings, carvings etc.The satisfaction in a job would depend on many factors like remuneration, working conditions, growth prospects, support for employees and several other factors. The welfare activities of the institute, consisting of EPF/ESI government supported benefits for the staff members, in addition work commuting, five days' work per week, planned vacations, leaves including maternity leave,employee welfare schemes and talent development initiatives. We have a finance support (Ahalia Fin forex) System which enables the staff and students to avail loan and purchase laptops through EMI scheme. Our hospitals

also support the staff and students by providing free outpatient consultation and a considerable discount in the inpatient service. The institute provides group life insurance for the staff, students and for their parents. Stress relief programmes are arranged occasionally to help the staff members to feel relaxed. These activities help in increasing the oneness among the staff members which helpsin a steady working environment. There is a full time psychologist in the college for counselling purpose.These kind of motivation helps a lot to bring out the best in faculty.

Performance Appraisal

Ahalia School of Engineering and Technology has an effective performance appraisal system for both teaching and non-teaching staff. A performance appraisal form is circulated and obtained from the faculty on an annual basis where the teaching efficiency of the staff is assessed. The form is divided into four different sections and each section deals with a variety of aspects regarding the staff performance. ASET'S TPA system is designed to promote teacher development, provide meaningful appraisals of teacher's performance, and identify opportunities for additional support and to provide a measure of accountability. The first section of the form comprises general information. The second section deals with curricular activities carried out by the faculty, University exam results in theory subjects handled in the previous semester, laboratories handled, and the projects guided during the assessment period. Section three seeks to find out any other relevant information, namely any awards, honours or patents received by the faculty and list of publications. The final section is at the total disposal of the HODs and the Principal. Here the faculty is rated from one to four based on their performance.Student feedback for all the faculty members are considered and the results are anlysed. These duly filled forms are then further analysed and the feedback thus obtained is judiciously addressed for the betterment of the teaching learning process. In case where lack of quality is observed, the faculty in question is counselled and further remarks are made to improve the performance. The system for non-teaching staff is similar to that of teaching staff with a few exceptions. The second section is maintenance where regular maintenance works of equipment in the lab and maintenance work done by externals in the lab is evaluated.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for 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: 11.67

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**

2021-22	2020-21	2019-20	2018-19	2017-18
0	0	0	35	0

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

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

Response: 8.39

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

2021-22	2020-21	2019-20	2018-19	2017-18
07	10	2	2	5

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

2021-22	2020-21	2019-20	2018-19	2017-18
3	5	1	1	0

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[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:

The institution has a well sought out plan for its distribution of resources and funds from various sources (government and non-government organizations). Prime strategies of the institution for the mobilization of funds are through the collection of fees like tuition, admission caution deposits etc. In addition to that, we act as the centre of online exams for various government and private sector organizations. We also make

use of our sister institutions infrastructure to support the smooth conduct of such exams.

The mobilized funds are utilized for conducting training programs like placements, soft skill development, communication skills, social awareness programs and outsourcing external agencies. All these measures help to enhance the overall quality of the students.

Resource mobilization is also carried out by following means:

? Students' fees
? Renting of available infrastructure

Optimal utilisation of resources

? The college aims at promoting research, development, consultancy, and such other activities, involving the faculty at various levels.

? Adequate funds are allocated for effective teaching-learning practices that include Orientation Programmes, Workshops, Interdisciplinary activities, training

programmes, Refresher Courses that ensures quality education.

? The optimal utilization is ensured through encouraging innovative teaching-learning practices.

? The college infrastructure is utilized as an examination centre for Government examinations/University Examinations.

? The Library Advisory Committee takes care that the resources in the library are

utilized optimally.

? Some of the funds are allocated for social service activities as part of social responsibilities through NSS and NCC.

? Renovation of additional infrastructures.

Financial Audits

? Our institution does have a standard procedure for both internal and external audits. We have a chartered accountant who visits the institution periodically and   checks all the relevant documents of purchase, income, and expenses.

? The internal audit is done regularly by Ahalia audit team. We tabulate the advanced amount and expenditure of various counts, and the final settlement would then be prepared by the authorities concerned. This is then submitted to the finance department for scrutiny. Also, when the bulk purchase of materials like exam books, records for various departments etc are being done, the same is distributed to various departments as per the requirement and the surplus is kept in the store. The excess materials are utilized in the further semesters and then the settlement for that is prepared and submitted to accounts for scrutiny.

? As a part of the internal auditing process, we have a separate materials auditing team who thoroughly check stock registers of all departments and library books. In case any damages/loss, they prepare a report for the same. Thus, we ensure the proper upkeep of all materials and the purchase related vouchers to avoid any loss. These periodical internal auditing, evidently helps to keep track of quality of materials purchased and longevity of equipment for future purposes.

? Likewise, during the course of external auditing, we used to provide all expenses incurred purchase of all lab consumables, running expenses like electricity, internet, housekeeping and maintenance and the review is done regularly.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for 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:

Ahalia School of Engineering and Technology (ASET) aims in producing quality students by focusing on providing better education through its novel, flexible, and adaptive educational techniques. The Quality assurance cell of the college was constituted in the year 2018. Since then, the IQAC wing strives to improving the college infrastructure and overall facilities available to maintain good quality education. It continuously evaluates and provides the parameters for quality education. IQAC has suggested conducting internal Academic Audits to make sure that all the necessary documents for an effective teaching-learning process is
maintained. Apart from it, an external ISO quality management system audit is conducted by Bureau Veritas, an ISO certification provider. The institution also has an effective feedback system to evaluate the teachers. Feedback are collected from students twice every semester and this helps in improving the quality of the teaching-learning process and helps in understanding the difficulties faced in the subject by the students. A personal logbook is maintained to keep a record of attendance, internal marks, and other academic-related activities. Faculty members record the attendance and details of the lecture along with the topics covered in the log book after the completion of each lecture. Result analysis performed by the institute after the publication of university exam results helps in analysing the performance of students. If the result of the students in a subject is found to be below par, then adequate steps are taken to realize the reasons, and the concerned faculty member is advised and inspired to achieve improved results by attending FDPs and webinars.
The objectives of the IQAC:
•To create an effective system that collects feedback and suggestions from students and parents for the improvement of the Institution and takes the necessary step in implementing the same.
•To make sure that continuous improvement happens in the entire operation of the Institution.
•To ensure the quality of the stakeholders connected with colleges, such as parents, faculty and staff.
•To offer an improved level of clarity and importance in Institutional functioning towards quality attainment and incorporation of the quality culture
•It provides input for better practices in administration by efficient use of available resources and thus offering a better service to students and staff.
•It acts as an effective system for quality changes to happen in the Institution and provides a better channel for internal communication.
•Development of quality parameters for the various academic and administrative activities of the institution and implementing the same.
•Organization and documentation of various activities leading to quality enrichment through workshops and seminars.

•Preparation of self-study reports (SSR) for internal and external audits

•Preparation of the Annual Quality Assurance Report (AQAR).

• Preparation of Action taken report.

• To enhance the quality, ASET approaches various accreditation processes, that include ISO certification, NAAC and NBA. Frequent academic audits are being carried out as per the mandate of these processes.

• To make a common audit platform, IQAC minutes are recorded as management review meeting minutes for the sake of these processes

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); Feedback collected, analysed and used for improvements**
2. **Collaborative quality initiatives with other institution(s)/ membership of international networks**
3. **Participation in NIRF**
4. **any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA, ISO Certification etc**

Response: C. Any 2 of the above

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

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Measures initiated by the Institution for the promotion of gender equity and Institutional initiatives to celebrate / organize national and international commemorative days, events and festivals during the last five years

Response:

Our college gives priority to gender equality in all stages of its operation. The college has appointed considerable number of women staff both in teaching and non-teaching. Similarly, the number of women in the administrative and housekeeping departments is also high. We have separate hostels for girls, which are completely secure and protective. They are also supported with female wardens including teaching staff. Surveillance CCTV cameras are installed in various locations of the college, hostels and in all classrooms for monitoring students' activities, movements inside and outside the college. The security personnel are deployed across the college premises for any kind of security incidents/issues and offers strict vigilance. Fire extinguishers are available in all labs and corridors. Anti-ragging committee will ensure that campus is free of ragging. The anti- ragging squad regularly monitors at scheduled timings in different places to make the campus ragging-free. The college also has students' welfare committee and grievance redressal committee to address issues, if any. The girl students are provided with a separate gymnasium and indoor sports courts for shuttle badminton, table tennis, etc. Our institute maintains zero tolerance towards sexual harassment and is very sensitive to issues related to women safety and security. A committee for women's welfare is constituted in our campus to address the issues related to women's welfare and their safety.

ASET have Ahalia Counseling Services (ACS) to counsel the students. Counseling is arranged by the college for both girl and boy students in three major areas i.e. counseling related to academics, career and behavioral patterns. We have 8 trained counselors with PG degree in Applied Psychology, in Ahalia campus. The counselor counsels the student on issues like personal, psychological, emotional problems and difficulties. It helps them to deal with stressful or emotional feelings and to inculcate the positivity in them.

Separate common rooms are provided for boys and girls in the college. Rooms are provided with necessary facilities like first aid box, rest room, cots, beds, mirror, chair, table, wash basin, dustbin, etc.

Some of the gender equity & sensitization and national and international commemorative days, events and festivals during the last five years are, Sports and Games competitions for girls, Various club activities like Cultural programs, International Women's Day, Anti- Dowry Day, Ahalia Malayali Manka, Various interactive sessions for girls in association with Ahalia Grihalakshmi Vedi etc.

Our institution is a hub of activity where events happen around the year. The NSS unit and the student council organize many cultural programs to address prevailing social issues. Many international and national days has been celebrated in our college like Independence Day, Teachers Day, Engineers Day, International Women's Day, World Earth Day etc. The programs conducted on behalf of these days were an opportunity for students to showcase their talents and exercise their creativity through different mediums such as art, music, dance etc. The institute organizes project exhibitions and also conducts technical events. Institution takes special efforts to promote technical culture by organizing activities under

various professional bodies.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for 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
Upload supporting document	[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
Upload supporting document	[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 diversity and Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)

Response:

Ahalia School of Engineering and Technology (ASET): we believe in giving holistic education to the students and sensitizing students on our constitutional rights, values, duties and responsibilities is one of our primary objectives given at the institute through various means. The vision of the institute is to "Grow

as a centre of learning and research, transforming students to professionals with knowledge, skill, competence, commitment, confidence and ethics to serve the society." These elements are inculcated in the value system of the college community. The institution sensitizes the students and the employees of the institution mainly through Co-curricular activities, Awareness programs, Workshops, Seminars and Campaigns.

The NSS Unit of ASET opened a free registration counter for new members to be enrolled in the voters list on 4th March 2021. The NSS Unit and IEEE Student Branch of ASET organized a Poster making and Video making competition to create awareness on Voting, in association with SVEEP, Election Commission of India. The NSS Unit also organized a vehicle rally named 'VOTTUVANDY' to create an awareness on Voting and Election system on 6th March 2021. Palghat Management Association (PMA) partnered with Ahalia Group Academic Institutions in organizing a Panel Discussion on 20 March 2021 on 'Vision 2030 – Education Sector in Palakkad'.

A Two-week Induction program was conducted for fresher students on 'Universal Human Values', which was concluded on 08 August 2020. The NSS cell of ASET also conducted a talk on the topic 'Constitutional Values and Fundamental Principles of Indian Constitution' as a part of the celebration of the 'Constitutional Day' on 26th November 2020. A Poster designing competition was also held on the same day. ASET organized Fit India Campaign with the motto 'For a Better Life'.

NSS Cell of ASET conducted a Regional Level "NATURAL RESOURCES PROTECTION FORCE WORKSHOP" at Ahalia Campus, on 07.03.2020 in association with Harithakeralam Mission. On 15 October 2019, an Anti-drug awareness class was conducted in association with the Excise Department of Kerala. On 1 October 2019, a blood donation camp was conducted. To support the victims of the 2019 flood in Kerala, ASET organized a 'Flood Relief Activity Campaign', for collecting flood relief materials from students and staff.

ASET in association with EnSAv Club organized a 'Energy Conservation Awareness' campaign, with a motto 'Save 1 Unit of Energy per day per Home', on account of World Engineering day for sustainable development on 4th March 2020. In connection with National Energy Conservation Day, ASET organized an 'Energy Conservation Walkathon' under URJA KIRAN 2018-19 on 17 December 2018. ASET in association with Unnat Bharat Abhiyan organized a One-Day Workshop on Plastic Pollution Control on 19th December 2019.

Also various activities were conducted every year at college level to celebrate, Constitution Day(26th November), National Voters Day(25th January), Republic Day(26th January), International Mother Language Day(21st Febuary), International Women's Day(8th March), Independence Day(15th August), Teachers' Day(5th September), Engineers Day (15 September), National Unity Day(31st October), Flag Day(7th December) etc.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for 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- 1

Title of the Practice

Promotion of arts, heritage and culture along with academics

Objectives of the Practice

- Help learners to consolidate past experiences and knowledge

- Introduce learners to different media and techniques and their use for creative and productive expression for common use.

- Provide opportunities for development of awareness about folk arts, local specific arts and other cultural components leading to an appreciation of national heritage.

- Assist learners to use artistic and aesthetic sensibility in day-to-day life situation

- Enable learners to achieve a balanced growth as a social being in tune with our culture through project work.

- Get acquainted with the life and work of the local artists/artistes.

The Context

Students deal with a variety of stress-related issues, including personal, academic, physical and mental ones. It causes a lot of tension, especially for dormitory students who are spending their first time away from home. Students from educationally underprivileged backgrounds experience difficulties and hesitations in the classroom, which prevent them from performing effectively because of inhibitions. Statistics show a rise in the number of suicides and dropouts. Therefore, one answer is to "promote the arts, tradition, and culture alongside academics". As students learn about what appeals to them and have a direct say in how their final output will look, art education helps students make better decisions, build their self-confidence, and increase their self-assurance. They can develop into lifelong learners that push themselves regularly and sharpen their focus on reaching their objectives.

The Practice

   A center of activity, Ahalia School of Engineering and Technology hosts activities all year long. The events put on by Ahalia's student clubs create a vibrant and energetic campus environment. On the Ahalia

campus, we provide a number of programmes like the Onam festival, the Christmas festival, the tech festival, the arts festival, and the mudra festival to foster the creativity of the students. Numerous student competitions are held in support of these festivals, and events including science exhibitions, conferences, and workshops are held. As a result, the pupils' creativity, morals and leadership skills are fostered. The University's guidelines state that students must earn their activity points, thus we require them to compete in a variety of events. Also, various cultural programs such as Mohiniyattam, Silambatam etc. are conducted so that the students can follow the culture of our country and society.

Evidence of Success

The main objective of the above mentioned events is for the students to excel academically and socially. As proof of that, students have performed very well in various placement drives. Many have performed well in many competitive exams. Also, all programs conducted in the college are conducted by the students council and students have excelled in university exams and sports at the state and district levels. Social concern development of students is developed here. Because of that many types of blood camps are conducted by NSS camp and through Unnat Bharat Abhiyan program nearby villages are adopted and all necessary help is being implemented for them.

Problems Encountered and Resources Required

This practice requires devoted management and staff that are willing to assist students outside of scheduled class times. When implementing the programme, there are no restrictions or limitations.

Best practice - 2

Title of the practice

Upkeep of sustainable and eco friendly campus in the arid and rain shadow region

Objectives of the Practice

Ahalia is located in the rain shadow region of Western Ghats. Artificial rain water harvesting lakes (RWH) , extensive plantation, sewage treatment plants, renewable energy resources together aimed to eradicate the extent of arid topography and over two decades of time, now Ahalia the largest sustainable and eco friendly campus in Kerala.Upkeep of sustainable and eco friendly campus prime objective is to promote natural self-sufficiency in harmony with the ecosystem thereby aiding Engineering students in enhancing mastery in the field of Sustainable Engineering altogether with academic knowledge.

The context

Similar to another large development project Ahalia edu-health campus came across economic, environmental and social concerns. Water is the major requirement for any sustainable green development. Initially it was a challenging scenario to pond large quantities of rainwater. Transportation facilities were also absent in the beginning years. Service roads were gradually developed. Relatively higher proportion of the topography is formed of rocky strata which were carefully planned to fit-in with the theme of sustainable mission. The greenery of Ahalia campus is a dedicated effort over years planting and nurturing around 100 saplings per year.

The practice

The mission of Ahalia School of Engineering and Technology is to bud socially committed Engineers. Ecology is getting depleted day by day. Ahalia as a team promotes Indian higher education in a unique course of action. The campus as such is a visual treat for the students and it mechanically inculcates a good human being who makes the environment sustainable for the present and future generations. The constraints faced in achieving the above is the Engineering syllabus and regulations currently we follow lack orientation towards the concept of sustainability.

Evidence of success

1) Aqua Excellence Award (2019) under the category ' Water Management - Private sector', from Aqua Foundation during the world Aqua Congress 2019.

2) First Prize (2018, 2013) from Kerala State Pollution Control Board, Government of Kerala

3) Excellence Award (2017, 2016, 2015, 2014), from Kerala State Pollution Control Board, Government of Kerala

4) Second Prize (2012), Third Prize (2011), Special Recognition (2010), Appreciation Award (2009) from Kerala State Pollution Control Board, Government of Kerala

5) First Prize (2017), Kerala State Akshaya Urja Award from ANERT, Government of Kerala

Problem Encountered and Resources Required

For the implementation of such a vast sustainable edu-health campus requires huge cash flow, man power and infrastructure. The progression of the sustainable campus in a limited time frame is challenging, especially the ecology which can only be built in a couple of decades. So, sustainability policies face obstacles due to the duality that exists between the need for feasible solutions and virtuous strategies.

File Description	Document
Any other relevant information	[View Document](#)
Best practices as hosted on the Institutional website	[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:

"A Campus Self-sufficient in Energy, Water and Residential Accommodation"

"Self-sufficiency is the ability to maintain oneself with an extreme confidence in one's own ability or worth". This core insight was one of the missions set by our founders, with this spirit of sincerity that laid the stepping stone to become a self-sufficient campus with sustainable surroundings. Located in water scarce and rain shadow region, Ahalia was set up on an arid extent of land, with rare green sprouts and absence of water. Journey of Ahalia from a barren land with an area surrounded by lush green flora and fauna is magnificent scenery. Ahalia is enriched with its impeccable resources and self-sufficient method in dealing with such accomplishments is highly acclaimed throughout the state. Situated around 2300 acres of land, Ahalia School of Engineering has its own earmarked area inside the Ahalia integrated Campus. The following are the distinctive area in which Ahalia marked its self-sufficiency.

1. Energy

Ahalia is one of the pioneers of large scale production of alternate energy solutions in Kerala and is committed to the development of alternate energy sources to fuel growth. A subsidiary of Ahalia Group, AAEPL was established as a continuum to the vision of its makers to create self -reliance and sustainability in energy management.

a. 8.4 MW wind farm

On completion of studies and analyses of the results, the organization made further efforts to capitalize on the established high wind channels of the area and thus a Suzlon made 80 m lattice wind mast was commissioned in May 2007. The wind data was measured at 80 m, 65 m and 50 m levels for the period from April 2008 to March 2009. An 8.4 MW wind turbine generator project was conceived after due discussions with KSEB. After further brainstorming with the director of KSEB and with their assurances of complete support technical sanction was gained and AAL initiated the erection and installation of the 2.1MW WTGs in campus.

b.1MW Solar project

1MW net metering solar power plant has been installed recently in the campus with a vision to build sustainability in nature and society through producing, distributing and popularizing world class alternate energy solutions. Developing wind power energy conversion systems and solar PV systems for domestic use and selling will mark yet another milestone in the alternate energy potential of the company. AAEPL intends to provide full-fledged customized solutions for the successful installation and working of solar PV projects.

c. Biogas plants

The waste generated from food and vegetables in the mess, quarters and restaurants inside campus is used to produce biogas. We have two biogas plants inside campus. We have 5 STPs commissioned at hospitals and hostels and one ETP commissioned at Ahalia Medicine Manufacturing Unit. The treated STP water is used for agriculture and sanitary purpose. STPs and Biogas are the main example of reuse of resources inside campus.

2. Water

As Ahalia Campus is located in a rural area, there is no Municipal Water supply for the college. The college depends on ground water for all its water needs. Hence, efficient usage of available water and

adaptation of water conservation measures are essential. The daily requirement of water in the campus is around 200000 liters. The following measures are taken for the conservation of water:

a. Rain water harvesting farms

Rain water conservation has done a miracle to this campus and it is now a fully green water-conserved campus, the largest in Kerala. Over the past two decades, Ahalia Campus has constructed ten rainwater harvesting (RWH) lakes with a total capacity of approximately 230 Million liters.

b. Open Well Recharge

An open well located in the campus is recharged by rain water. The well also receives water from the pond of the check dam through pumping.

3. Treatment Plants

In Ahalia Campus there are seven treatment plants located in proximity to the hostels, hospitals and other institutions. These treatment plants remove the contaminants from the waste water using physical, chemical and biological processes to produce treated wastewater that is safer for the environment. The sludge has to undergo further treatment before being suitable for disposal or application to land.

4. Plantation & Farm activities

There are earmarked locations in Ahalia for cultivation of paddy, herbal plantation (medicinal plants of 5000 different varieties), vegetables (such as tapioca, radish, brinjal, ladies finger, cabbage, etc.), palm trees, cashew trees, mango trees, coconut trees, jasmine plantation, neem trees and other spice trees. As part of our afforestation efforts, every year around 1000 saplings are planted and taken care of. Additionally, in order to maintain this green belt, extensive underground pipes are laid and sprinkler systems are used. In areas where this is not possible manual efforts are undertaken. In addition to these, there is a farm in the campus with cattle, poultry, goose, turkey, rabbits and goats. Fish farming and sericulture are other activities.

5. Residential Accommodation

Ahalia offers a supportive enriching environment to its students, faculty and staff in all respects. Away from the hustle bustle of the city the Ahalia campus offers a peaceful and modern lifestyle to the students, faculty, staff and their families.

a. Hostels

Ahalia provides residential accommodation with separate hostels for girls and boys. The institute has three hostels (one for boys, and two for girls), out of which two hostels have double/triple sharing rooms with common washrooms and one hostel has triple sharing rooms with attached bathrooms. The necessary facilities like a spacious dining hall and a well-equipped recreational area, an indoor games area, a fitness center, RO based drinking water system in each floor of the hostels were set in place in the first year itself.

b. Staff Cottages

The ambience of the staff cottage, which is a fully furnished 2 BHK Unit amidst the virgin greenery of Palakkad in the backdrop of the Western Ghats will leave you feeling fresh and rejuvenated after your stay. Wi-Fi Connectivity, 24×7 on call security, other transportation facilities are all added benefits offered to our residential people.

File Description	Document
Any other relevant information	[View Document](#)
Appropriate web in the Institutional website	[View Document](#)

5. CONCLUSION

Additional Information :

Ahalia School of Engineering and Technology is a pioneer engineering institution in the district of Palakkad, and well known for its academic, and non-academic activities. The institution provides quality education to all aspiring students. Economically weak students with strong academic background, are highly motivated through various scholarships offered by the management of the institution and the government. Within a decade of existence, the institution has produced good results in the University examinations. The management actively participate to improve the admissions, through their outreach and extension activities. State of art infrastructure is well maintained and serves the thirst of the students in the thrust areas of engineering and technology. The library of the institution is well established and is digitalized through Koha and Google workspace. ASET is located at a shrine environment inside the Ahalia campus, which is more safe and secured through CCTV cameras and security guards. The campus is eco and disabled-friendly. Overall, the institution offers a holistic approach for the betterment of the students.

Concluding Remarks :

Ahalia School of Engineering and Technology, maintains the vision of Ahalia International Foundation, since the inception in 2012. Amongst the recession in the engineering admissions, the institution is surviving for more than 10 years, and serving the society. The management is keen to improve the quality of the institution on all aspects. ASET being the premiere institution of the campus is pioneer in taking any step towards quality, which will make the other institutions of the Ahalia Edu-Healthcare campus to follow the same.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification
1.2.1	**Number of Add on /Certificate/Value added programs offered during the last five years** Answer before DVV Verification : Answer After DVV Verification :32 Remark : AS per the data provide in the data template after counting those programs ,DVV input is recommended.
1.3.2	**Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)** 1.3.2.1. **Number of students undertaking project work/field work / internships** Answer before DVV Verification : 153 Answer after DVV Verification: 105 Remark : As per the clarification and revised data and documents received from HEI, based on that DVV input is recommended.
2.1.1	**Enrolment percentage** 2.1.1.1. **Number of students admitted year wise during last five years** Answer before DVV Verification: _(table below)_ Answer After DVV Verification : _(table below)_ 2.1.1.2. **Number of sanctioned seats year wise during last five years** Answer before DVV Verification: _(table below)_ Answer After DVV Verification : _(table below)_ Remark : AS per the clarification and revised data received from HEI, based on that DVV input is recommended.

2.1.1.1 Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
173	153	162	110	171

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
152	153	153	105	154

2.1.1.2 Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
300	300	300	300	300

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
300	300	300	300	300

2.1.2	**Percentage of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (Exclusive of supernumerary seats)**
	2.1.2.1. *Number of actual students admitted from the reserved categories year - wise during the last five years*

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
19	30	29	13	54

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
17	30	29	13	54

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:

2021-22	2020-21	2019-20	2018-19	2017-18
75	75	75	75	75

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
75	75	75	75	75

Remark : AS per the revised data 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.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. 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.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years**

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
11	6	8	8	9

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
11	6	8	7	8

Remark : AS the teacher who is awarded his /her degree in 2019 then it should not be considered

	in 2017-18 and 2018-19 ,So DVV input is recommended accordingly.
2.6.2	**Pass percentage of Students during last five years** 2.6.2.1. **Number of final year students who passed the university examination year wise during the last five years** Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
78	115	129	170	128

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
52	115	129	170	128

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
104	148	168	180	165

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
105	147	165	182	165

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, Chairs in the institution during the last five years (INR in Lakhs)** Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
1	0	3	1	3

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
1	0	0	2	3

Remark : As per the clarification and revised data 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:

2021-22	2020-21	2019-20	2018-19	2017-18
57	67	20	19	24

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
56	67	20	18	18

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

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
6	10	5	6	14

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
5	10	5	5	14

Remark : AS per the revised data 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:

2021-22	2020-21	2019-20	2018-19	2017-18
6	11	1	2	1

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
5	11	1	1	1

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
57	42	34	28	27

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
71	57	40	28	27

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

4.1.2 **Percentage of expenditure, excluding salary for infrastructure augmentation during last five years (INR in Lakhs)**

4.1.2.1. **Expenditure for infrastructure augmentation, excluding salary during the last five years (INR in lakhs)**

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
17.37	14.78	25.31	36.01	39.53

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
10.03	10.75	20.25	28.21	37.12

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

4.3.2	**Student – Computer ratio (Data for the latest completed academic year)** 4.3.2.1. **Number of computers available for students usage during the latest completed academic year:** Answer before DVV Verification : 225 Answer after DVV Verification: 173 Remark : AS per the clarification and revised data received from HEI, based on that DVV input is recommended.
4.4.1	**Percentage of expenditure incurred on maintenance of infrastructure (physical 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: {table1} Answer After DVV Verification : {table2} Remark : AS per the clarification and revised data 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: {table3} Answer After DVV Verification : {table4} Remark : AS per the documents and certificates received from HEI, based on that participation

Table (4.4.1.1 before):

2021-22	2020-21	2019-20	2018-19	2017-18
294.21	224.87	319.72	364.49	336.54

Table (4.4.1.1 after):

2021-22	2020-21	2019-20	2018-19	2017-18
174.45	106.04	201.83	179.53	161.87

Table (5.3.1.1 before):

2021-22	2020-21	2019-20	2018-19	2017-18
0	0	20	7	0

Table (5.3.1.1 after):

2021-22	2020-21	2019-20	2018-19	2017-18
0	0	5	4	0

certificates are not considered So DVV input is recommended accordingly.

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:

2021-22	2020-21	2019-20	2018-19	2017-18
568	155	38	622	750

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
4	0	6	15	12

Remark : As per the supporting documents 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), 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), professional development /administrative training programs during the last five years**

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
16	28	13	14	6

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
07	10	2	2	5

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
3	5	1	1	0

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
3	5	1	1	0

	Remark : AS per the clarification and revised data 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 : B. Any 3 of the above Answer After DVV Verification: C. Any 2 of the above Remark : AS per the clarification and supporting data and documents received from HEI, based on that DVV input is recommended.

2.Extended Profile Deviations

ID	Extended Questions
1.1	**Number of students year wise during the last five years** Answer before DVV Verification: 	2021-22	2020-21	2019-20	2018-19	2017-18
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153	155	153	104	165 | Answer After DVV Verification: | 2021-22	2020-21	2019-20	2018-19	2017-18
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563	546	567	596	656	
2.1	**Number of teaching staff / full time teachers during the last five years (Without repeat count):** Answer before DVV Verification : 104 Answer after DVV Verification : 60
2.2	**Number of teaching staff / full time teachers year wise during the last five years** Answer before DVV Verification: 	2021-22	2020-21	2019-20	2018-19	2017-18
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60	60	60	60	80 | Answer After DVV Verification: | 2021-22	2020-21	2019-20	2018-19	2017-18
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60	60	60	60	60	
3.1	**Expenditure excluding salary component year wise during the last five years (INR in lakhs)**

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
311.59	239.65	345.04	400.51	376.08

Answer After DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
294.21	224.87	319.72	364.49	336.54