SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

AAA COLLEGE OF ENGINEERING AND TECHNOLOGY

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https://www.aaaenggcoll.ac.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

AAA College of Engineering and Technology (AAACET), Sivakasi was established in the year 2013. It is branded for its quality education, through Panjurajan and Amaravathy trust, Thiruthangal and Promoted by Vinayaga and Sony fireworks group of industries. The trust also manages two schools namely, Glory Matriculation Higher Secondary School and AAA International School in Thiruthangal. There by providing quality education right from schooling itself in order to provide meritorious education with commitment to Excellence and find opportunity to apply the knowledge and skills in the industry as well as in the society we live.

AAACET was started with 5 under graduate programs in Engineering and Technology, with a sanctioned intake of 300 students. Our institution is approved by AICTE and affiliated to Anna University, Chennai. We impart quality technical education to the rural students following the regulations of Anna University.

The motto of our institution is **A**spire, **A**ttain and **A**chieve. The institute is committed to provide quality technical and professional education to transform students into successful entrepreneurs and dynamic leaders with moral values. The college provides young and promising engineers who can work competitively and productively in the engineering services on a global scale.

Our college has a Center of Excellence for IIOT, BOSCH Laboratory and it is an official partner of Amazon Web Services. AAACET's IPR Cell, EDC Cell and MHRD's Institution's Innovation Council conducts training programs regularly to boost the employable skills of the students as well as nurturing an entrepreneurship culture so that transition from campus to corporate is smooth and seamless. Apart from these AAACET has a strong Placement cell that continuously work to bring reputed companies for the campus placement drives.

The physical infrastructure and human resource promote ICT friendly teaching learning process and entrepreneurial ecosystem. Parent Teacher Association, Alumni, various clubs and forums work in tandem to implant academic attributes and humanistic values among students. Women Empowerment cell of the institute takes care of gender related issues and the grievances redressal cell resolves any issues/grievances raised by the student community.

Vision

- Emerge as a Premier Institute for Quality Technical Education and Research with social responsibilities.

Mission

- To offer state of the art infrastructure for under graduate, postgraduate and doctoral programs.
- To provide holistic learning ambience blended with professional ethics, leadership qualities and social responsibilities.
- To dessiminate knowledge and undertake research in the field of Engineering and Technology.
- To inculcate innovation and creativity among student community to become successful entrepreneurs.
- To undertake collaborative projects with academic, research centres and industries to provide cost–effective solutions.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

A *SWOT analysis* is a useful tool for brainstorming and strategic planning. The primary objective of carrying out SWOC analysis is to understand the shortcomings of the institutions both quantitatively as well as qualitatively. The Principal, Director, the Heads of the Departments, the faculty, supporting and administrative staff and sample of students of all branches participated in SWOC analysis. The major inputs considered are

1. Teaching-learning process

2. Research and extension activities

3. Students Progression

4. Infrastructure & Financial Support

5. Human Resources

Institutional Strengths

- Dedicated and committed management with good academic background
- Well maintained state-of-art building infrastructure and laboratory facilities.
- The Institution with just six years old has been awarded by the honorable Governor of Tamilnadu for best infrastructure in the year 2014.
- Eco-friendly and conducive working atmosphere.
- Constant encouragement given to the faculty members in pursuing research leading to Ph.D.
- The institution adopts Outcome Based Eduation (OBE) and conducts various certification, value added and add-on courses for the students.
- Presence of IQAC cell to enhance the quality culture and initiatives towards the satisfaction of the stakeholders.

- Students' association activities, faculty appraisal, online students' feedback system.
- Scholarships/tuition fee concession/waiver to financially weak and meritorious students. Merit based educational scholarship is being offered to all needy.
- Establishment of professional Centres such as Center of Excellence in Industrial Internet of Things (IIOT), E-YANTRA Robotics laboratory in association with IIT Mumbai and BOSH training center and availability of AMAZON WEB SERVICES (AWS).
- Mentor system for counselling the students and to enable the smooth implementation of continuous evaluation of academic process.
- The Institution has 50Mbps Internet connectivity with fiber optic backbone and provides campus wide networking to over 600 terminals besides dedicated computer laboratory with specialized packages and strong hardware support.
- Fully Wi-Fi enabled campus.
- The placement cell is dedicated to place students in reputed companies with assisting resources like III Cell, EDP Cell, and IPR Cell.
- Auditorium with centralized air conditioning system with a seating capacity of 800 and 3 major seminar halls with a seating capacity of 120 for hosting major events.

Institutional Weakness

- Being an affiliated institution, have limited academic autonomy in designing curriculum and syllabus.
- There is scope for increasing the number of research publications and patents.
- Industry Supported Laboratories need to be increased.
- As the Institution is situated in the rural area, where there is less number of industries
- Being a Self-Financing Institution, no funds from Government.

Institutional Opportunity

- An improved research environment can be foreseen as good number of faculty members pursuing Ph.D.
- There is scope for inter-disciplinary research challenges and new trends in multidisciplinary professional education.
- Getting accreditation certification from NAAC and NBA and then to become Autonomous
- The introduction of curriculum beyond syllabus will help the students to improve their employability skills.
- Students participation in club activities and intercollegiate competitions
- Exchange of knowledge across borders.
- Possibility of collaboration with National & Foreign universities. Programs with international universities which will provide a platform for international exposure to students and faculty.
- Setting up industry sponsored/supported laboratories to cope industry ready engineers.
- Applying for research grants from government and non-government funding agencies.

Institutional Challenge

- Rigidity of academic structure & curriculum since our institute is an affiliated institute.
- Training rural based Tamil medium students in English language and developing their communication skills.

- ○ Competition from autonomous Institutions functioning in the nearby areas.
- ○ Coping up with rapidly changing technologies.
- ○ Securing funds from leading funding agencies
- ○ Institution being located in a rural area achieving admissions to the level of sanctioned intake.
- ○ Educating the rural students with poor communication skills.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

AAA College of Engineering and Technology (AAACET) is affiliated to Anna University (AU), Chennai, Tamilnadu. The Institution takes utmost effort in effective curricular planning and implementation as prescribed by the AU. Institute adheres strictly to the Academic Calendar prepared in the beginning of each semester as per the academic schedules provided by the AU. Academic monitoring is carried out by Internal Quality Assurance Cell (IQAC) and it is a continuous process for maintaining quality of teaching and learning. Institute offers certificate courses to the students every year.

Many faculty members are involved in various committees and cells in the institute. Six of faculty are actively involved in academic committee of other academic intuitions during the aacademic year 2018-19. The institute take its immense efforts to cater to the students of varied backgrounds and abilities through stimulating ICT enabled teaching-learning environment.

AAACET follows Choice Based Credit System introduced by the AU 2017 regulation in all the 5 UG programs from the academic year 2017. Compliance of Anna university curriculum is done to contribute different domains in curriculum and curricular gaps are identified through inputs from stakeholders.

In addition to the prescribed curriculum, institute gives lot of thrust on curriculum enrichment by adding content beyond the syllabus in the lesson plan and by offering additional skill-oriented programs in terms of value-added courses, seminars, workshops, industrial visits, internships, field projects for the overall development as well as enabling students for better job opportunities.

Apart from the core subject related courses, the courses like Principles of Management, Total quality Management, environment science and engineering, and professional ethics are incorporated as elective subject in the curriculum

Structured feedback on Curriculum is collected from various stakeholders like students, teachers, parents, alumni, Industry person/employer. Feedback collected is analyzed and appropriate actions are taken for the betterment of the teaching learning process.

Teaching-learning and Evaluation

Anna University regulates the admissions of engineering colleges for UG programs through centralized admission procedure. Institution follows the reservation policy of the State Government. Apart from Government scholarships, Management scholarships are awarded for academicaly bright students students with

weak financial background.

At the beginning of each semester, the institutional level and Departmental level academic calendar are prepared according to Anna university.

AAACET follows OBE. A set of PEO's, PO's and CO's are defined. Subjects are assigned to faculty based on their competency, subject expertise and experience. Faculty members prepare a course file along with the structured lesson plan as per guidelines given by IQAC.

Experiential and Participative learning are main focus in teaching learning process. The institution promotes ICT friendly teaching through the ILMS, Google Class room and Power point presentations. Central Library is well-stocked with latest textbooks and reference material. Online access to journals and e-resources are provided to all.

Institute has implemented mentoring system for taking care of the students' academic and stress related issues.

Advanced learners and slow learners are identified, and diverse programmes for slow and advanced learners are envisaged by the institution. Remedial classes, bridge courses, and counseling are given to slow learners. Advanced learners are groomed to new heights by providing them with training on GATE and other competitive exams, teaching them the advanced technological trends and giving opportunity for doing research, presenting and publishing Research Papers in conferences and Journals.

Class Committee meetings are conducted thrice during the semester. The chairperson of the committee communicates the rules and regulations of the department, examination procedure, discuss the syllabus completion and collect feedback on academic and administrative difficulties faced by the students.

12 faculty members are having Ph.D. Degree and 15 of others are pursuing. AAACET has Centralized Examinations and evaluation system. End semester examination is conducted as per AU pattern. The complete process is transparent and adhere strictly to the academic calendar. At the end of the semester, attainment levels of COs, POs and PSOs are calculated and if not satisfactorily attained, corrective measures are taken.

Research, Innovations and Extension

The Institute is actively engaged in the research and development activities in the campus by providing facilities in terms of high-speed internet connectivity, laboratory, subscription to research journals and providing research incentives for faculties for their research related activities, such as publishing research papers, attending workshops/conferences and promotion in the designation once they complete the Ph.D.

Many faculty members are registered and pursuing PhD. Faculty members are actively encouraged to publish papers in refereed national and International journals and conferences. Students are also encouraged to take participation in Inter- college competitions, seminars and workshops.

Institute actively encourage research by hosting technical and IPR related workshops, seminars, training programs through IQAC, IPR cell, and EDC cell. Institute has recently established the Institution's Innovation Council under the umbrella of MHRD to promote the innovative and quality culture among the faculty and students. Few MOU's are signed with reputed Companies for student's internship/training and placement. A total of 70 research papers are published in National and International Journals, and Conferences during the last

five years. 14 Books are published by our faculty. Since it is only six years over from the inception of the institute, it faces heavy constraints and it is still in the incipient stage with regard to funded projects and consultancy works.

Institute also conducts project expo and science expo, where students display their projects and their innovative ideas. It has also conducted science expo for polytechnic and school students to encourage the young mind who displays their models/Ideas and those who visit the expo.

Eight faculty members are recognized supervisors of Anna University. The institution has a well-defined code of ethics to check malpractices and plagiarism in research. Institution honors the teachers who receive recognition and awards.

For developing sensitivities towards community issues, gender disparities, social inequity etc. and to inculcate values and commitment to society, NSS, Rotract Club and YRC unit of the institute promotes Extension activities such as Swachh Bharat, AIDS Awareness, Gender Issue, blood donation camp, election awareness, food safety, road safety, campus cleaning, tree plantation etc in the neighborhood community.

Infrastructure and Learning Resources

The college is situated in 43.87 acres of Land with a built-in area of 32861 Sqm. Institute has state of art infrastructural facilities to support teaching-learning, research and administrative services as per the AICTE and AU norms. The institution has adequate physical facilities like ICT enabled 21 classroom, 6 seminar halls, 45 laboratories, 2 workshops, 6 tutorial rooms and a computer center. An auditorium with a seating capacity of 800 with centralized air-conditioning is available to host national/International conferences, cultural and other institutional level activities.

The Institute has more than 346 computers for students, 18 printers with LAN and UPS facilities and 45 laboratories. Computer to student ratio is 1.76. The campus is Wi-Fi enabled a speed of 50 Mbps. The college has various licensed software's such as MATLAB, PRIMEVARA, Mentor Graphics, AUTOCAD etc., and open source software in various departments.

Professional Centres such as Center of Excellence in IIOT, E-YANTRA Robotics laboratory, AMAZON WEB SERVICES and BOSCH training center is also established in the Institute to make the students employable in reputed companies. CCTV cameras are installed at various places in the college premises to monitor the campus activity and maintain security. The Institute yearly upgrades its IT infrastructure whenever it is necessary and as per the requirements based on AU Curriculum.

The central library is automated with ILMS software, ROVAN. The library is Wi-Fi enabled and is enriched with rare books, project reports, 11792 reference/ text books, 10955 e-Books and 2827 journals. Reading room could accommodate 100 students.

A Separate hostel is available for boys and girls. Gymnasium and waiting hall for boys and girls are also available in the campus. A 20,000 liters capacity waste water management system is available for the purpose of recycling the waste water. A dispensary with ambulance facility is available inside the campus.

The Institute has good Indoor and Outdoor Sports facilities with Football and Cricket Grounds, Basket Ball Court, Table-Tennis, Cricket Practice-Nets, Tennis and Badminton Court. A yoga trainer is available for

training both, the students and staff. Auditorium and open-air theater are available for conducting cultural activities.

Student Support and Progression

Institution takes utmost efforts to provide necessary assistance to students, for enabling them to acquire meaningful experiences for learning in the campus and to facilitate their holistic development and progression. Students are benefited by both government and management scholorships.

Orientation programmes and bridge courses are organized to familiarize new students with courses, faculty and curricular/co-curricular activities. Apart from classroom interactions, remedial classes for slow learners, workshops, field trips, seminars and internships are integral components of the academic support system. Also, the institution regularly conducts value added, add-on and vocational courses/training for the students.

Technical events through various professional bodies are conducted to enhance the student's knowledge on recent technology trends.

The institute has effectively implemented mentoring system. Each faculty members are assigned with 15-20 students to monitor student's academic performance, attendance details and disciplinary issues.

Institute has Grievance Redressal, Anti-ragging, Sexual Harassment committee and womens empowerment cell to cater the various need of the students.

The Institute concerns for student progression to employability and/or to higher studies. Institute motivate & guide the students for higher studies, thorough motivating and conducting training sessions on GATE, Civil services and other competitive examinations.

Placement related training for the students starts from the very beginning of the first semester itself. Soft-skills and communication skills are included in the regular time-table to train the students. Placement Cell maintains strong Industry-Institution relationship and provides support to students in placement.

Students are involved in organizing various co-curricular and extra-curricular activities. With regular and structured coaching provided, students take active participation in sports and games at various levels.

Institute has an effective students' representation in various academic, administrative and extra-curricular committees. Departmental association are available where students play an important role in decision making and organizing department level activities. The NSS, YRC and Rotaract club of our institution motivate the students and staff to participate in various extension activities

Institute has an Alumni Association and all the passed-out students are members of it. Registration of it is under progress. Every year the college organizes alumni meeting. Alumni help students for placement & career planning.

Governance, Leadership and Management

The institute strives to bring excellence with the involvement of the governing body and stakeholders to

achieve the vision, mission and goals of the institute. Dedicated and committed management with good academic background and leadership qualities has developed the organizational culture in the institute. The Governing Council, Academic Council and IQAC give guidelines for framing policies of the Institute in tune with the vision and mission. The institute believes in practicing **decentralization** and involves stakeholder's representatives in **decision making.**

The institute has developed the **strategic plan** to achieve the goals which is deployed in a transparent and effective manner. Principal & Heads of the department, plan and implement quality improvement strategies taking into consideration the feedback of all stakeholders.

The institute ensures stakeholder participation in the division of duties of the faculty members and administrative staff. The departments prepare an action plan on the academic, curricular and co-curricular activities and the implementation and planning of the action plan is monitored by the IQAC. IQAC is formulated as per the AICTE norms and it acts as a core monitoring Committee set up for assessing and reviewing the department activities to ensure OBE and gives recommendations for achieving higher levels of excellence. IQAC thus plays a pivotal role in formulating qualitative strategies in the institution taking feedback from various stakeholders.

Institute has different cells consisting of stakeholder's representatives. Committees/cells incorporating faculty work effectively to meet the objectives. Non-teaching staff contributes to decision-making through their representative bodies. The institute has implemented e-governance in areas like academics, administration, admission, Library etc. to make the system effective.

Institute has appraisal system to asses performance of teaching and non-teaching staff. Institution has well defined procedures for recruitment, incentives, on-duty, increments and promotion. The Institute provides various welfare measures like Group Insurance, Provident Fund, medical coverage, marriage leave, maternity leave etc., for teaching and non-teaching staffs.

All the institutional level expenditures and department related expenditure are prepared and well documented. Internal and external audits of all the finance and accounts are done yearly to ensure mobilization of funds effectively.

Institutional Values and Best Practices

The objective of AAACET is not only to promote the students to obtain degree but also it has the responsibility to prepare the students to become global citizens with self-confidence, positive attitude and motivation to face any challenge in their lives. Institute keenly engages itself with various promotional activities to help the students to emerge as notable professionals of the society and world-class technocrats.

The Institute provides ground for fostering innovation, creativity and quality. Developing a gateway to further advance the interests of the students, consistent commitment to quality, set of inclusive practices and sustaining stakeholders' relationships are put on the top priority.

Women Empowerment cell organizes several activities to create awareness about gender-equality and ensures fair treatment for all. Safety and security of students and staff are the prime concern of the Institute. Constant surveillance and vigilance are effectively implemented by security personals and by installing CCTV cameras at vantage points in the campus.

The institution is moving towards 100% LED lights. The college has installed rain water harvesting system. Every effort is made to reduce papers in official work through e-governance and usage of plastic is prohibited. Liquid waste is recycled by sewage treatment plant with a capacity of 20,000Ltrs is installed in the campus. All solid waste is converted in to vermi compost.

Institution has facilitated the differently abled students with ramps, lifts, rest-rooms, scribes for examination etc.

Institution celebrates the national and religious festivals. Birth & Death anniversaries of great Indian personalities are remembered by the institute.

The institute has its core values and code of conducts adhered to by all within the campus. The locational advantage has been explored and is being utilized by the Institute.

Environmental science and engineering, Renewable energy sources and professional ethics are being taught to students as per Anna University curriculum.

Amongst the several best practices, following are two which have been showcased here: 1) Personality development of students thorugh skill enrichment. 2) Mentoring System

The institute is making an all- out effort to align its goals and practices towards sculpting a bright future of our students.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	AAA COLLEGE OF ENGINEERING AND TECHNOLOGY
Address	Kamarajar Educational Road Amathur Sivakasi - 626005
City	Sivakasi
State	Tamil Nadu
Pin	626005
Website	https://www.aaaenggcoll.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	M Sekar	04562-228863	8124011542	04562-228885	principal@aaacet.ac.in
Professor	S Sevugarajan	04562-228883	9944543385	04562-290900	sevugarajan@aaacet.ac.in

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minroity institution	No

Establishment Details	
Date of establishment of the college	01-02-2013

University to which the college is affiliated/ or which governs the college (if it is a constituent college)		
State	**University name**	**Document**
Tamil Nadu	Anna 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](#)	10-04-2019	12	

Details of autonomy	
Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No

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	Kamarajar Educational Road Amathur Sivakasi - 626005	Rural	43.87328	32861

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	**Name of Programme/Course**	**Duration in Months**	**Entry Qualification**	**Medium of Instruction**	**Sanctioned Strength**	**No.of Students Admitted**
UG	BE,Electronics And Communication Engineering	48	HSC	English	60	44
UG	BE,Computer Science And Engineering	48	HSC	English	60	59
UG	BE,Civil Engineering	48	HSC	English	60	6
UG	BE,Electrical And Electronics Engineering	48	HSC	English	60	25
UG	BE,Mechanical Engineering	48	HSC	English	60	36

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				6				10				51
Recruited	4	2	0	6	7	3	0	10	31	20	0	51
Yet to Recruit				0				0				0
Sanctioned by the Management/Society or Other Authorized Bodies				0				0				0
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
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				19
Recruited	9	10	0	19
Yet to Recruit				0

Technical Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				18
Recruited	18	0	0	18
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers									
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	4	2	0	5	3	0	2	0	0	16
M.Phil.	0	0	0	1	0	0	0	0	0	1
PG	0	0	0	1	0	0	29	20	0	50

Temporary Teachers									
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	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

Part Time Teachers									
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	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

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	101	0	0	0	101
	Female	69	0	0	0	69
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years

Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	4	6	10	7
	Female	3	5	5	2
	Others	0	0	0	0
ST	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	48	152	111	128
	Female	33	57	55	50
	Others	0	0	0	0
General	Male	3	5	3	1
	Female	0	0	1	0
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		91	225	185	188

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3. Extended Profile

3.1 Program

Number of courses offered by the institution across all programs during the last five years

Response: 446

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of programs offered year-wise for last five years

2018-19	2017-18	2016-17	2015-16	2014-15
5	5	5	5	5

3.2 Students

Number of students year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
612	781	826	653	472

File Description	Document
Institutional Data in Prescribed Format	View Document

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

2018-19	2017-18	2016-17	2015-16	2014-15
249	249	249	249	249

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of outgoing / final year students year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
161	211	274	1	1

File Description	Document
Institutional Data in Prescribed Format	View Document

3.3 Teachers

Number of full time teachers year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
66	80	80	60	40

File Description	Document
Institutional Data in Prescribed Format	View Document

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

2018-19	2017-18	2016-17	2015-16	2014-15
74	80	80	60	40

File Description	Document
Institutional Data in Prescribed Format	View Document

3.4 Institution

Total number of classrooms and seminar halls

Response: 27

Number of computers

Response: 346

Total Expenditure excluding salary year-wise during the last five years (INR in Lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
298.26	366.07	341.15	290.37	264.69

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4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

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

Response:

Our institution is approved by AICTE and affiliated to Anna University, Chennai. We impart quality technical education to the rural students following the curriculum and syllabus prescribed by Anna University.

The motto of our institution is Aspire, Attain and Achieve. The institute is committed to provide professional education to transform students into successful entrepreneurs and dynamic leaders with moral values. The academic year begins in the month of June and ends in May. The institution convenes academic council meeting in the month of June/November to discuss the gaps in curriculum and the academic activities that are planned to be conducted. The proposals submitted by department Heads are discussed and approved by the council. To bridge the gaps, initiatives are taken to conduct value added courses and Add-on courses in every semester. Departments prepare their action plans based on the direction of the academic council and finalize the academic calendar.

Every semester the department calls for subject allocation to faculty members. The subjects are finalized based on the experience and performance of the faculty. The faculty is informed to prepare course plan and course material for the forthcoming semester. It includes the Syllabus, Lesson plan, Time table, Course Objectives, Course Outcomes, CO-PO mapping, Course materials, Video lecturing (URL), Tutorial sheet and Assignment. Academic calendar is prepared as per the Anna University academic schedule and the requirements at the department level as per the action plans formed. A regular working extract with department academic calendar for the semesters is prepared and is made available to all faculty and students.

Before the beginning of the semester the faculties are asked to submit course plan, course material, attendance and assessment record. Faculty will upload course plan and relevant teaching materials in the online platform Moodle/Google Classroom. Time table is prepared considering credit requirement of the subject. Continuous Assessment Tests are conducted after completing one unit. Curriculum delivery, Student performance and progress are periodically monitored by the Head of the Department and Principal. The faculty members use various innovative teaching methodology to make teaching learning process more effective. Every department organizes industrial visit, field visits, workshops, seminars, guest lectures, hands on training and internship for enhancing their fundamental concepts and knowledge of the subjects.

GATE problems are given as homework for students in analytical subjects. The students are motivated to register for NPTEL online courses. Laboratory Manual is prepared for practical courses with additional/ Design based experiments in addition to list of experiments prescribed by University. Teaching faculty update themselves by attending refresher courses, workshops, Faculty development programs, conferences and seminars which help them for accomplishment of their subject delivery and curriculum more

effectively.

The institution provides all necessary infrastructural facilities to our teaching faculty such as Audio Visual Hall, Language lab, Educational Software, E-Journals and reference books and Digital library.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

1.1.2 Number of certificate/diploma program introduced during the last five years

Response: 86

1.1.2.1 **Number of certificate/diploma programs introduced year-wise during the last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
20	20	20	16	10

File Description	Document
Minutes of relevant Academic Council/BOS meetings	View Document
Details of the certificate/Diploma programs	View Document
Any additional information	View Document

1.1.3 Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years

Response: 9.2

1.1.3.1 Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
2	3	1	0	0

File Description	Document
Details of participation of teachers in various bodies	[View Document](#)
Any additional information	[View Document](#)

1.2 Academic Flexibility

1.2.1 Percentage of new Courses introduced out of the total number of courses across all Programs offered during last five years

Response: 79.37

1.2.1.1 How many new courses are introduced within the last five years

Response: 354

File Description	Document
Minutes of relevant Academic Council/BOS meetings.	[View Document](#)
Details of the new courses introduced	[View Document](#)
Any additional information	[View Document](#)

1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented

Response: 100

1.2.2.1 Number of programmes in which CBCS/ Elective course system implemented.

Response: 5

File Description	Document
Name of the programs in which CBCS is implemented	[View Document](#)
Minutes of relevant Academic Council/BOS meetings.	[View Document](#)
Any additional information	[View Document](#)

1.2.3 Average percentage of students enrolled in subject related Certificate/ Diploma programs/Add-on programs as against the total number of students during the last five years

Response: 64.64

1.2.3.1 Number of students enrolled in subject related Certificate or Diploma or Add-on programs year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
485	472	503	455	250

File Description	Document
Details of the students enrolled in Subjects related to certificate/Diploma/Add-on programs	[View Document](#)
Any additional information	[View Document](#)

1.3 Curriculum Enrichment

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

Response:

The institution provides a healthy environment to all our students. The cross–cutting issues relevant to Gender, Environment and sustainability, Human Rights and Professional Ethics etc., make plenty of space when it comes to apply them positively into the curriculum. Since we follow Anna University curriculum, it is partially covered by the syllabus. The institution takes efforts to focus on the gender equality, environment and sustainability, human values and professional ethics. They are listed below

1. Women Empowerment Cell (Gender Equality)

It is formed with one senior faculty member as coordinator and all the women faculty in the institution are members. Many programmes were conducted in the campus such as International Women's Day, Mother's Day, International Yoga Day, Meditation etc in order to bring awareness and motivation to the Girl students about their rights and Human values of women in the development of a nation. Women empowerment cell is formed with a motto to empower women by promoting their participation in all areas and sectors to build stronger economics improve their quality of life and bring gender equality.Women Grievances Committee was framed with female faculty members consisting of one coordinator and two faculty members and also one student representative from each department. This is our privilege to state that in our college the problems related to women students like sexual harassment, eve teasing are completely nil as we maintain a very good discipline system in the institution. The committee conducts meeting periodically and interacts with girl students regarding any sort of issues. This Women Grievances Committee handles the issues confidentially.

2. Environment and Sustainability

In order to integrate the cross cutting issues relevant to environment and sustainability, University has included different types of courses in the curriculum to bring awareness among students. All programs

have a compulsory course of Environmental Science and Engineering in first and second year curriculum. In this subject, students study basic components of environment and its application to tackle issues such as pollution control, green gases etc.

In Civil Engineering program, students learn Environmental Engineering I and II, Water Resources and Irrigation Engineering as core subjects. Students select elective courses such as Air Pollution Management, Municipal Solid Waste Management. The following programmes are organized regularly for the students through NSS Unit,

- Plastic awareness programme
- Clean India Programme
- Environmental Studies
- Tree Plantation

3. Human Rights

In order to integrate human rights into curriculum Anna University offers Human Rights course as an elective and the same is taught for our students . Further our institute follows a transparent system of administration. Committees like SC/ST, Anti-Ragging deals issues regarding any ragging related misconduct. The SC/ST committee conducts meeting with students and informs their rights and benefits in the society.

4. Professional Ethics

Anna University curriculum has "Professional Ethics in Engineering" course to all the branches of Engineering. Professional ethics are principles that govern the behaviour of a person or group in their profession. In our institution we educate and motivate the students to follow the key ethical principles.

File Description	Document
Any Additional Information	View Document
Link for Additional Information	View Document

1.3.2 Number of value added courses imparting transferable and life skills offered during the last five years

Response: 16

1.3.2.1 Number of value-added courses imparting transferable and life skills offered during the last five years

Response: 16

File Description	Document
Details of the value-added courses imparting transferable and life skills	[View Document](#)
Brochure or any other document relating to value added courses.	[View Document](#)
Any additional information	[View Document](#)

1.3.3 Percentage of students undertaking field projects / internships

Response: 24.35

1.3.3.1 Number of students undertaking field projects or internships

Response: 149

File Description	Document
List of students enrolled	[View Document](#)
Institutional data in prescribed format	[View Document](#)
Any additional information	[View Document](#)

1.4 Feedback System

1.4.1 Structured feedback received from 1) Students, 2)Teachers, 3)Employers, 4)Alumni and 5)Parents for design and review of syllabus-Semester wise/ year-wise
A.Any 4 of the above

B.Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: A.Any 4 of the above

File Description	Document
Any additional information	[View Document](#)
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	[View Document](#)
URL for stakeholder feedback report	[View Document](#)

1.4.2 Feedback processes of the institution may be classified as follows:
A. Feedback collected, analysed and action taken and feedback available on website

B. Feedback collected, analysed and action has been taken

C. Feedback collected and analysed

D. Feedback collected

Response: B. Feedback collected, analysed and action has been taken

File Description	Document
Any additional information	[View Document](#)
URL for feedback report	[View Document](#)

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average percentage of students from other States and Countries during the last five years

Response: 0.03

2.1.1.1 Number of students from other states and countries year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
1	0	0	0	0

File Description	Document
List of students (other states and countries)	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.1.2 Average Enrollment percentage (Average of last five years)

Response: 50.89

2.1.2.1 Number of students admitted year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
91	225	185	188	227

2.1.2.2 Number of sanctioned seats year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
360	360	360	360	360

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

2.1.3 Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years

Response: 67.23

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

2018-19	2017-18	2016-17	2015-16	2014-15
88	191	181	187	190

File Description	Document
Institutional data in prescribed format	[View Document](#)
Any additional information	[View Document](#)

2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students, after admission and organises special programs for advanced learners and slow learners

Response:

The programmes and strategies adopted by our institution satisfy the needs of the students from diverse backgrounds including the backward community as well as from different locales. Gender equity and admission opportunities for all categories of students are also considered.

The Secretary, Tamil Nadu Engineering Admissions (TNEA), admits first-year B.E students through a single-window system based on their Higher Secondary Examinations (HSE) marks. The seats under Management Quota are filled through the Consortium of Self Financing Colleges. After admission, a bridge course is conducted for all the first-year students. An orientation programme is also arranged for the first-year students who have secured more than 60 % of marks in HSE (12th Standard).

After the commencement of classes, the students are evaluated based on their performances in Unit test / Internal assessment examinations conducted as per the schedule prescribed by the Anna University. If the student secures less than 60%, he/she is categorized as a slow learner. Otherwise, he/she will be categorized as an advanced learner. The slow learners are periodically given coaching beyond working hours and their progress is monitored.

Methodologies to encourage Advance Learners

- Students with good academic performance are identified. Their performances are closely monitored and they are counseled regularly by the respective proctor headed by the Head of the Department for achieving higher levels.

- They are advised to undergo NPTEL courses to enrich their technical knowledge.
- They are encouraged to learn value-added and add on courses to acquire skills for employability.
- Additional German Language classes are also arranged which gives the advantage of studying in general and for career prospects abroad. In addition, acquiring a foreign language enables students to develop various mental abilities.
- They are given special training by experts to improve their aptitude and soft skills. This would aid in fetching job opportunities in reputed companies. Mock interviews are also conducted by experts to improve their confidence level to face the interviews.
- They are encouraged to participate in symposia, seminars, workshops, national and international conferences organized by reputed institutions.

Methodologies to improve the performance of slow learners

- Coaching classes are conducted for slow learners (students securing less than 60% in internal assessment examinations and end semester examinations). During coaching classes, the students are given individual attention and the Course Instructor/faculty member clarifies their doubts.
- Tutorial classes for problematic courses are conducted to improve the problem-solving ability of the students. This will also promote peer learning among the students.
- Simplified teaching materials are given to the slow learners to help them score high marks. Important topics in each course, based on previous end semester examination question papers are also discussed during the special classes. This would help them to secure high marks in the forthcoming examinations.
- Improvement Tests are conducted to improve the academic performance of the students in internal assessment examinations.
- Individual mentoring by Proctors is done at periodic intervals to improve the academic performance of the students.

File Description	Document
Any additional information	[View Document]()
Link for Additional Information	[View Document]()

2.2.2 Student - Full time teacher ratio

Response: 9.27

File Description	Document
Any additional information	[View Document]()

2.2.3 Percentage of differently abled students (Divyangjan) on rolls

Response: 0

2.2.3.1 Number of differently abled students on rolls

File Description	Document
Institutional data in prescribed format	View Document

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

Response:

Our College takes all necessary measures to enhance the learning experience of the students and to support them for their wholesome development. Different learning methodologies such as experiential learning, participative learning and problem solving are adopted to create interest in learning among the students.

Experiential Learning

Industrial visits are arranged on a regular basis that gives an opportunity to the students to visit industries relating to their theory courses and experience the real time processes. Field visits are also arranged frequently to make the students conversant with the technologies adopted in the nearby industries. Guest lectures by experts from the industry are organized by the respective departments, wherein a hand on training is provided and students learn by practice beyond the prescribed syllabus. Values added/add on courses are conducted during the vacation period to give hands-on experience to the students and prepare them as industry-ready engineers. Vocational courses are also conducted for the students to impart skills required for employment. The students undergo internships/in-plant training during vacation which gives an opportunity to interact with the Industry and learn by experience. Industrial visits and internships can also lead to projects for students in their final semester and fetch jobs at the end of the programme. In laboratory courses, the students conduct experiments and get a better understanding of the theoretical concepts taught in class.

Participative Learning

The faculty members encourage the students to learn through reciprocal teaching, participation in group discussions, presentation of seminars and enacting role plays for a better understanding of concepts/ technologies. The students and faculty are motivated to register for online NPTEL Certificate courses in addition to their regular curriculum. Guest lectures and seminars by experts from the industry and academia are organized by the respective departments, wherein students can actively participate and gain knowledge beyond the prescribed syllabus.

Students are encouraged to organize symposiums in the college and to participate in Intra-collegiate events, seminars, guest lectures and contests which help in bringing out the potential of the students. Our students are also encouraged to present papers in symposiums, conferences. In addition to academics, to be a socially responsible citizen, our college encourages the students to participate in NSS activities with equal enthusiasm to develop their overall personality.

Problem Solving Methodologies

The Project Course in the curriculum enables the students to identify problems and use research based knowledge to arrive at optimum solutions. Design Project course in the curriculum of some departments also enables the students to design/fabricate components of structure/machinery.

In the case of problem-oriented subjects, tutorial classes are conducted where the subject handling faculty gets the assistance of additional faculty and problems are given to students for solving in the class itself. This is particularly helpful as individual attention is given to the students and their doubts are clarified on a one to one basis. This ensures student centric learning, supplements regular teaching-learning process and enables the students to solve problems effectively.

File Description	Document
Any additional information	View Document

2.3.2 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc.

Response: 90.91

2.3.2.1 Number of teachers using ICT

Response: 60

File Description	Document
List of teachers (using ICT for teaching)	View Document
Any additional information	View Document
Provide link for webpage describing the " LMS/ Academic management system"	View Document

2.3.3 Ratio of students to mentor for academic and stress related issues

Response: 11.13

2.3.3.1 Number of mentors

Response: 55

File Description	Document
Any additional information	View Document

2.3.4 Innovation and creativity in teaching-learning

Response:

Adoption of innovation and creativity is an integral part of the teaching-learning process in our college and it helps us in achieving academic excellence. Use of innovative teaching techniques creates interest and ignites the passion for learning in students by engaging them without boredom. It also results in fast, efficient delivery of courses and makes the communication with students easy. Creativity allows students to express themselves. It promotes thinking and problem-solving ability of students encouraging them to be life- long learners.

Apart from regular lectures through chalk-and-talk, the innovative teaching methodologies such as learning through real word examples, collaborative learning, ICT supported learning are being practiced during course delivery.

Learning through real word examples is facilitated through the arrangement of industrial visits. In addition, Z-A approach is adopted where the application of theoretical concepts through real world examples is first illustrated and then the theoretical concepts are explained for better understanding by the students.

Collaborative learning is achieved by involving students in the teaching-learning process. Some of the approaches adopted in our college are Think-pair-share, reciprocal teaching, group discussion and role play. Think-pair-share is a technique where the student is exposed to questions and can take the help of his/her pair (another student) to think about the answers. The student then shares the answers to the questions. This technique enhances the thinking ability of the students. Reciprocal teaching is conducted in the form of a dialogue between faculty member and students regarding segments of text for the purpose of constructing the meaning of the text. Students are divided into four groups and assigned with the following roles; summarizing, questioning, clarifying and predicting. They are then not only responsible for reading the text, but also for learning and teaching it. In group discussions, the students express their opinions about a topic under discussion. Students are also motivated to enact role plays for learning the courses with interest and for boosting their creativity.

ICT supported learning is achieved through digital delivery of courses. It is accomplished through the use of LCD projectors for delivery of interactive lectures, NPTEL lectures and demonstrations of animations/PPT/lecture contents. Flipped Classroom is adopted wherein the students watch videos and multimedia materials outside the class. During the class, students work through what they watched, doing activities, participating in discussions, and asking the faculty questions to help them understand the concepts taught. It is contrary to the traditional classroom approach where the teacher delivers the course, leads the activities and instructs the students to enrich further at home through activities. Blended learning bringing together elements of both traditional and flipped classrooms is widely adopted. Open book test is adopted which makes recalling of concepts easy and enhances retrieval Skills. It also helps in remembering concepts for a longer duration.

Additional techniques like mind mapping are also adopted. In mind mapping ideas are suggested and recorded in visual format about the topic under discussion.

File Description	Document
Any additional information	View Document

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

Response: 97.84

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	View Document
List of the faculty members authenticated by the Head of HEI	View Document
Any additional information	View Document

2.4.2 Average percentage of full time teachers with Ph.D. during the last five years

Response: 10.08

2.4.2.1 Number of full time teachers with Ph.D. year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
14	8	4	4	3

File Description	Document
List of number of full time teachers with PhD and number of full time teachers for 5 years	View Document
Any additional information	View Document

2.4.3 Teaching experience per full time teacher in number of years

Response: 9.5

2.4.3.1 Total experience of full-time teachers

Response: 627.3

File Description	Document
Any additional information	View Document

2.4.4 Percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years

Response: 0

2.4.4.1 Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

File Description	Document
Institutional data in prescribed format	[View Document](#)
e-copies of award letters (scanned or soft copy)	[View Document](#)
Any additional information	[View Document](#)

2.4.5 Average percentage of full time teachers from other States against sanctioned posts during the last five years

Response: 2.14

2.4.5.1 Number of full time teachers from other states year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
3	1	1	1	1

File Description	Document
List of full time teachers from other state and state from which qualifying degree was obtained	[View Document](#)
Any additional information	[View Document](#)

2.5 Evaluation Process and Reforms

2.5.1 Reforms in Continuous Internal Evaluation(CIE) system at the institutional level

Response:

- The college has an Examination Cell for overseeing the conduct of all the internal and end semester examinations. The Examination Cell Coordinator is assisted by a team consisting of Assistant Examination cell Coordinators, Office Assistants, Computer Programmers, Data Entry Operators and attenders.

- Students are evaluated based on their performance in Continuous Internal Assessment (CIA) and end Semester Examinations.

- The performance of students in the theory subjects is assessed periodically as follows for internal

assessment examination:

Period	Portions of the Subjects	Method of Evaluation	Maximum Marks	
Assessment Period – I	1.5 Units	Internal Examination	100	
Assessment Period – II	1.5 Units		100	
Assessment Period -III	2 Units		100	

- The total marks obtained in all assessment examinations are put together out of 300, is proportionately converted to 20 marks and rounded to the nearest integer.

- Assignments / Seminar Topics are given to the students which are to be completed for each subject. The seminar presentations by the students are aimed at improving the communication and technical skills of the students.

- Class tests and model examinations are conducted in addition to the internal assessment test to enhance the writing practice of the students and to enable them to score high marks in the end semester examinations.

- **The students are kept informed of the evaluation processes**, attendance requirements as well as the grading systems for the internal assessments **during the orientation programme conducted** at the beginning of the First semester.

- Three Internal Assessments test and one model exam in theory subjects and one model examination in case of practical are conducted in each semester.

- The Question bank is submitted to the Examination cell in the prescribed format. The academic coordinator/HOD scrutinizes the question bank and sets the question paper. If the question paper is not satisfactory, the academic coordinator/HOD may advise the faculty to revise and send the revised question bank. After the verification process, the question paper is generated automatically from the question bank by computer software.

- Question papers are set in line with the requirements of OBE with questions drawn from all levels of Bloom's Taxonomy pyramid. The course outcomes and knowledge levels are also included in the question papers of the internal assessment examination.

- The final question papers that are generated from the question bank are again verified by academic coordinator/HOD before printing for internal assessment examinations.

- After the conduction of internal assessment examinations, the answer scripts are evaluated and the attainment of Course Outcomes (COs) and Programme Outcomes (POs) are computed. It the attainment is below 60%, remedial action as suggested by the concerned HOD is taken.

- The performance of the students in internal assessments is monitored by the Head of the respective departments and the Principal. Review Meetings are conducted by the heads of department after each assessment examination to analyze and assess the level of understanding of students in

different subjects and for planning corrective actions. Special Classes are conducted for the slow learners and absentees in the internal assessment examination.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

2.5.2 Mechanism of internal assessment is transparent and robust in terms of frequency and variety

Response:

- The continuous internal assessment system followed in our institution covers the aspects of cognitive learning, demonstrative skills besides attendance criterion. Students are informed about the parameters of the internal assessment examination system well in advance.

- Each internal examination will be conducted after 22 – 25 working days. The fixation of the internal assessment examination is aligned with the web portal entry schedule given by the Anna University to upload the internal marks of each internal exam

- The time tables for internal assessment tests are planned and informed through circulars and also displayed in notice boards well in advance. The seating arrangements prepared by the examination cell day will be displayed on the notice board.

- For checking the malpractices and possession of mobile phones during the conduct of internal assessment examinations, an internal squad comprising of senior faculty members is appointed.

- Once the examinations are conducted, the answer scripts of students are evaluated and verified by the HOD to ensure that there is no discrepancy or partiality in the valuation. At the end of every semester, external audit by a senior faculty member from other department is done to ensure the quality of evaluation. The answer scripts are distributed to the students by the faculty members within two days of examination. The faculty members discuss the answers to all the questions given in the examinations during the distribution of answer scripts to the students. This helps the students to understand their mistakes and note down the corrections. In addition, the students can verify their marks with the scheme of evaluation prepared by the faculty. Thus the students are allowed to assess their own work and modifications, if necessary in the award of marks are carried out. Suggestions are given to the students who need to improve their academic performance. The academic toppers are appreciated and motivated to continue their good performance.

- The internal marks of the students are entered in the web portal of Anna University during the stipulated periods. The entries made in the web portal are cross verified by the faculty members. The students can view their marks in the portal using their login credentials. The internal marks of the students are also disseminated in the notice board to ensure transparency in the internal assessment.

- The marks of internal assessment and end semester university examination are sent to the parents through SMS and post. The department organizes a parent-teacher meet once in every semester, after the publication of university results. During the parent-teacher meet, the parents are appraised about the performance of their wards. Intimation is also given to them for the remedial coaching planned for the students who have failed in the examinations. The parents are also instructed to follow the Anna University web portal for monitoring the progress of their wards.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

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

Response:

- Internal assessment examinations are conducted as per the academic calendar provided by the Institution. The Examination office prepares the time table according to the academic calendar provided by the Institution. The examination cell displays the time table well in advance of the commencement of examination. The time table is also communicated to the faculty members and students through mail.

- Every grievance at Institution level is clarified instantly by the concerned authorities. The institution continuously reviews the evaluation process done internally and implements the necessary changes as and when applicable/ required. This is done through the academic audit system of the institution.

- The grievance of the students relating to the internal assessment examination process is expressed during the conduct of class committee meetings conducted at regular intervals. The Heads of Department and the Principal take appropriate actions to solve the grievances of the students as early as possible.

- Internal assessment question paper feedback is given by the concerned course handling faculty member on the day of internal assessment examination. If any discrepancies are found, they are rectified as and when it is required..

- In examination hall, the students are not allowed to carry cell phones, smart watches, pen drives and other types of electronic gadgets.

- To ensure timely needs of students during assessment examinations, frequent visits are made by the examination cell coordinator. In addition, squad members also visit the examination halls to monitor the students and to avoid malpractices during the examinations.

- The end semester examinations are conducted and controlled by the Anna University. If students have any grievances related to the end semester examinations, the Principal communicates to the Controller of Examinations of the Anna University about them.

- The grievances of the students related to the evaluation in the end semester examination are addressed by applying for revaluation. The revaluation is applied after obtaining photocopies of the evaluated answer scripts. The obtained answer scripts are evaluated by the concerned course handling faculty member. If the student scores pass mark in the answer script, he/she applies for revaluation after paying the revaluation fees prescribed by the Anna University. Revaluation results are published by Anna University. If the student is not satisfied with the revaluation results, he/she can apply for review/challenge evaluation by paying the fees prescribed by the Anna University.

- The faculty member handling a particular course checks the question paper after the completion of the end semester examination of his/her course. Feedback is also obtained from the students about the question paper. If any representation is required, it is communicated to the Anna University by the concerned faculty member through proper channel. The feedback may include out of syllabus questions and other discrepancies. Suitable moderation if found necessary would be given during Central Valuation of answer scripts by the Anna University.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

2.5.4 The institution adheres to the academic calendar for the conduct of CIE

Response:

- The academic calendar is prepared in line with the university schedule and displayed on the college website after the approval by the academic council. It includes the opening and closing dates of the classes of each semester, list of holidays and co-curricular activities. It also includes the schedules for conduct of internal assessment examination for theory courses and model practical examination for laboratory courses. It also gives the tentative schedule of end semester examinations for the theory courses and university practical examinations for the laboratory courses.

- Students are well informed about the time table for the conduct of internal assessment examinations. They are also informed about the schedule for entry of marks in the web portal of the Anna University.

- Course plans are prepared by the faculty members based on the academic calendar. The detailed course plan conforming to the syllabus is prepared by each faculty before the commencement of the semester.

- The course plan comprises of the content, learning aids and mode of delivery. It includes the vision, mission statements of the college and the department. It also includes the programme outcomes, programme specific outcomes and course outcomes. It is duly reviewed, approved by the HOD and corrective actions are suggested wherever required. The course plan generally highlights the content and total lecture hours required for the completion of the syllabus for each course. The syllabus needs to be covered by the faculty according to the dates mentioned in the course plan and is monitored by the HOD and Principal.

- The time table for the regular theory and laboratory classes is prepared by the time table coordinator of each department based on the subjects allocated to the faculty members. The time table is displayed on the department notice boards and classrooms.

- For the laboratory courses, the batches are allotted by the concerned course instructor. The lab manuals need to be prepared by the faculty members well in advance before the commencement of the semester and should be shared with the students on the day of reopening. An academic monitoring committee is appointed by the Principal/Head of Department to monitor the day - to-day conduct of the theory and laboratory courses based on the time table.

- The institution adheres to the academic calendar for the conduct of continuous internal assessment examinations as the academic calendar of the institution is prepared based on the academic calendar published by the Anna University. The internal marks obtained by the students have to be entered periodically in the web portal of the Anna University. Any postponement or delay in the conduct of internal assessment examinations would pose serious problems for entering the marks in the web portal of the Anna University. Hence the institution strictly adheres to the academic calendar and conducts internal assessment examinations as per the academic calendar.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the Institution are stated and displayed on website and communicated to teachers and students

Response:

- The institute is affiliated to Anna University, Chennai and it has well defined learning outcomes. The vision and mission of the institution emphasizes on promoting value education through motivated trained faculty to prepare the students to accept the challenges of globalization.

Programme Outcomes (POs)

- Programme Outcomes are narrow statements that describe what the students are expected to know and would be able to do upon the graduation. These relate to the skills, knowledge, and behaviour that students acquire through the programme. The programme outcomes adopted by NBA for accreditation of programmes are based on initial capabilities, competence, skills, etc. These parameters are called Graduates Attributes and they vary from discipline to discipline and level to level.

Program Specific Outcomes (PSOs)

- PSOs are what the students should be able to do at the time of graduation. The PSOs are program specific. PSOs are written by the department offering the program. There are generally two to four PSOs for a department.

Course Outcomes (COs)

- Course Outcomes are narrower statements that describe what the students are expected to know and be able to do at the end of each course/subject. While the POs define the departmental outcomes, the COs are more oriented towards the subjects.

- Course Outcomes are framed by the subject handling faculty in consultation with the Heads of the department along with the subject experts. Course committee meetings are conducted at regular intervals and the institute assists the faculty members to achieve these objectives by proper supporting systems. This helps to understand the course outcomes easily.

- The course outcomes are thus directly and quantitatively assessed and are tied to the program Outcomes and program specific outcomes. Therefore if the course outcomes are attained, those provide direct quantitative evidence to that program outcome and are attained. The course outcomes of each course are mapped to the program outcomes with a level of emphasis being strongly correlated (3), moderately correlated (2) and lightly correlated (1).

Process of dissemination of Vision, Mission and POs / PSOs among the stakeholders and its awareness:

- The defined POs, PSOs and COs are Available in documents like

Brochures, Newsletters and magazines

Lab manuals

Course file and course plan of faculty

- The Program Outcomes (POs), Program Specific Outcomes (PSOs) and Course Outcomes (COs) are well defined and published on college website. It is also displayed in HOD's room, faculty room, notice board, laboratories, main corridors and seminar hall.

- The COs are also dictated to the students while dictating the syllabus in the class. Hence the student

will be aware of the COs of the subject.

- Tentative schedule of these meeting is prepared by department in the faculty meeting. In each meeting Vision, Mission and POs / PSOs of the department are conveyed to the all internal and external stakeholders. This way all the stakeholders who attend meetings become aware of Vision, Mission and POs / PSOs of the department.

File Description	Document
COs for all courses (exemplars from Glossary)	View Document
Any additional information	View Document
Link for Additional Information	View Document

2.6.2 Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution

Response:

Assessment gives us essential information about what the students are learning and the extent to which teaching goals are met.

Attainment of Course outcomes:

Attainment of course outcomes are assessed by considering the following two categories of marks

1. Internal Assessment Examination Marks

2. End Semester University Examination Marks or Grades

The internal assessment mark for the theory courses is the average of the three internal assessment examinations. For laboratory courses, average mark of records and one model practical examination is considered for internal assessment examination. The internal examination marks for project work is evaluated by conducting three review sessions. Viva-voce examination is conducted batch-wise and both the internal examiner and external examiner appointed by the Anna University evaluate the performance of students and award marks based on it. Grade points are given by the university in the end semester examination results and the equivalent marks are given in the table.

The course outcomes are framed by the respective faculty members and HOD with the help of subject experts. Subject wise CO attainment level is calculated by adding 20% of the final internal assessment attainment level (given in the table) and 80% of end semester examination attainment level. Thus, the average percentage of students attaining the entire COs decides the CO attainment level.

Attainment Level	Students pass percentage	Marks level for (Intern semester examination*)
1	50% to 60%	50 % and above out of maxi

		marks	
2	61% to 70%	50 % and above out of maxi marks	
3	71% and above	50 % and above out of maxi marks	

*Grade points of the end semester examination results are converted as range of marks

Attainment of Programme outcomes, Programme specific outcomes:

Attainment of PO and PSO are calculated by the following tools

Direct Attainment

1. Internal Assessment Mark

2. End Semester Examination Marks

Indirect Attainment

　　1.Students Exit Survey

A correlation is established between COs and POs in the scale of 1 to 3, 1 being the slight (low), 2 being moderate (medium) and 3 being substantial (high). A mapping matrix for CO,PO and PSO's is prepared for every course in the programme and the average of COs for all POs, PSOs are calculated for each course of the programme. Average attainment for all POs and PSOs for all the subjects is also calculated.

Indirect attainment is found from student exit survey about the programme and is conducted by providing the POs and PSOs as questionnaires to the outgoing students by giving four grade points as 4 = Excellent, 3 = Very Good, 2 = Good, 1 = Satisfactory. Total weightage and maximum weightage is calculated for all POs and PSOs. Indirect attainment level is taken as 20% of the weightage of all the POs and PSOs. Direct attainment level of 80% includes 20% of internal assessment attainment level and 80% of end semester attainment level.

File Description	Document
Any additional information	[View Document](#)

2.6.3 Average pass percentage of Students

Response: 67.7

2.6.3.1 Total number of final year students who passed the examination conducted by Institution.

Response: 109

2.6.3.2 Total number of final year students who appeared for the examination conducted by the institution

Response: 161

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

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.62

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants for research projects sponsored by government/non government sources such as industry ,corporate houses, international bodies, endowment, chairs in the institution during the last five years (INR in Lakhs)

Response: 2.44

3.1.1.1 Total Grants for research projects sponsored by the non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year-wise during the last five years(INR in Lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
2.0432	0.4	0	0	0

File Description	Document
List of project and grant details	[View Document](#)
e-copies of the grant award letters for research projects sponsored by non-government	[View Document](#)
Any additional information	[View Document](#)

3.1.2 Number of research projects per teacher funded, by government and non-government agencies, during the last five year

Response: 0.62

3.1.2.1 Number of research projects funded by government and non-government agencies during the last five years

Response: 8

3.1.2.2 Number of full time teachers worked in the institution during the last 5 years

Response: 13

File Description	Document
Supporting document from Funding Agency	[View Document](#)
Any additional information	[View Document](#)
Funding agency website URL	[View Document](#)

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations including incubation centre and other initiatives for creation and transfer of knowledge

Response:

Our institution developed an ecosystem comprising Innovation, Incubation and IPR centres (III centres) to realize products from innovative ideas. The system provides necessary motivation for students and faculty to develop and launch solutions to address real world problems. The innovative ideas from the students are usually identified during a Technical Project Expo conducted every year and the best concepts are recommended for further development. Financial assistance is also provided the students based on further review.

Students are guided through various seminars and workshops to understand the technology in a better way.III centrealso intends to protect innovations using Intellectual Property Rights (IPR) in order to benefit the society and minimizing the risk of valuable ideas remains on the shelf. The III centres organizeprogrammes to promote research and innovations in our campus and the summary of the activities is given below.

Guest lecture on Introduction to Internet of Things

The III Centres of AAACET organized a Guest Lecture for the student members of III centres on "Introduction to Internet of Things" on 10-08-2018. The resource person Dr.A.Shenbagarajan, Associate Professor / CSE discussed about the basics of IoT, various protocols and different innovative IoT projects.

Technical Seminar on "How to publish a paper in Journal?"

The III centres of AAACET has organized a seminar titled "How to publish a paper in Journal?" on 01-09-2019 in our college campus. The resource person Dr.G.Vairamuthu, Associate Professor / Department of Mechanical Engineering provided the detailed procedure required for publishing a paper in a journal. The III & IV year Mechanical Engineering students participated in this seminar.

Technical Project Expo on TechnoFest-19

The III centres of AAACET organized an intra-college Technical Project Expo on March 22, 2019. Final year students from various departments participated in this event and exhibited their technical project. A total of 64 technical projects were exhibited by the students and winners were honored with the prizes and certificates.

Formation of Institution's Innovation Council (IIC)

Institution's Innovation Council (IIC)is a unique initiative of MHRD Innovation Cell. It aims at streamlining and strengthening the Innovation and startup ecosystem in HEIs campuses. The formationof Institution's Innovation Councilwas held at AAACET campus. Dr. R. Meena Prakash, Associate Professor, Department of Electronics and Communication Engineering (President, IIC) introduced the faculty and student coordinators of the Innovation, Start-up, IPR, Internship and Social Media Activities. A discussion on the activities to be conducted for first quarter was made. This council had conducted guest

lecture on My Story – Entrepreneur's Life & Crossroad.Our alumnus Mr.S.Madan Raj, Proprietor, Raj Steels and Cements, Sivakasi was the resource person. The council had conducted various technical contests on innovative practices like Poster Presentation, idea sharing during the innovation day celebration.

The Innovation, Incubation and IPR centres was brought under the framework of Institution's Innovation Council (IIC)as the functionalities are similar. Within a span of three months our institution was awarded 16 marks out of 25 by MHRD Innovation Cell.

File Description	Document
Any additional information	[View Document]
Link for Additional Information	[View Document]

3.2.2 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the last five years

Response: 6

3.2.2.1 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
6	0	0	0	0

File Description	Document
Report of the event	[View Document]
List of workshops/seminars during the last 5 years	[View Document]

3.3 Research Publications and Awards

3.3.1 The institution has a stated Code of Ethics to check malpractices and plagiarism in Research

Response: Yes

File Description	Document
Institutional data in prescribed format	[View Document]
Any additional information	[View Document]

3.3.2 The institution provides incentives to teachers who receive state, national and international recognition/awards

Response: Yes

File Description	Document
e- copies of the letters of awards	[View Document](#)

3.3.3 Number of research papers per teacher in the Journals notified on UGC website during the last five years

Response: 0.22

3.3.3.1 Number of research papers in the Journals notified on UGC website during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
25	22	15	10	8

File Description	Document
List of research papers by title, author, department, name and year of publication	[View Document](#)
Any additional information	[View Document](#)

3.3.4 Number of books and chapters in edited volumes/books published and papers in national/international conference proceedings per teacher during the last five years

Response: 0.08

3.3.4.1 Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
0	3	1	0	1

File Description	Document
List books and chapters in edited volumes / books published	[View Document](#)
Any additional information	[View Document](#)

3.4 Extension Activities

3.4.1 Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years

Response:

The vision of our college NSS Unit is to build the youth with the mind and spirit to serve the society and work for the social upliftment of our nation as a movement.

AAA College of Engineering and Technology participates in the college-neighborhood community development by conducting regular activities with the students. The NSS unit of our institution conducts many awareness programs such as Food Safety awareness, Blood Donation camp, Medical camp, Dengue awareness, etc., Motivational programs like Future India, Know Yourself, Vetripadigal, etc., are also being conducted for the benefit of the students. The students are provided enough opportunities to spread societal awareness and serve their surroundings. The institution imparts not only the education but also the human aspects to serve society.

The Institution with the help of the NSS Unit conducts various activities for the students. The students cheerfully come forward and participate in the activities for the welfare of this society. Participation in the activities helps them to develop much needed societal skills.

Some of the activities our NSS unit has done for community development.

- Tree Plantation
- Importance of Water Conservation
- Swachh Bharat
- International Yoga Day
- Importance of Voting – Election Awareness Program
- Energy Conservation & Energy Audit
- Leadership Skills and Soft Skills Training
- Blood Donation Camp
- Aided Program for Orphanage
- Impacts of Plastics – Awareness Program
- Dengue Awareness Program
- Medical Camp
- Motivational Program
- Food Safety Awareness Program
- Stress Management – Meditation Program – Human Engineering
- Eye Checkup Camp

To track the involvement of the student in various social activities, our institute has established a system of faculty members as proctors for every 20 students. They keep records of their participation in activities and guide the students in various activities.

To develop the neighborhood community, the institution leads the institute plans and organizes several extension and outreach programs. The activity clubs like NSS, Rotaract and EDC Cell are quite energetic

in such deeds.

Through these clubs, every student is persuaded to become a member of NSS, Rotaract to serve society. The institution also carries out Social affirmative schemes for the development of underprivileged communities. During the orientation program of newly admitted students, the faculty/student coordinators of NSS and various societies make a presentation to the students on the benefits and scope of the extension activities. The activities are informed to the student community through circulars, web notifications in academic and hostel building regularly.

The NSS Unit of our Institution has been conducting many awareness programs in and outside the college. To inculcate the social awareness to our students, we have deputed the NSS Volunteers for voter identity registration, Election awareness rally, Green India rally, Election duty.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

3.4.2 Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years

Response: 3

3.4.2.1 Total number of awards and recognition received for extension activities from Government /recognised bodies year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
2	0	0	0	1

File Description	Document
Number of awards for extension activities in last 5 years	View Document
e-copy of the award letters	View Document

3.4.3 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the last five years

Response: 50

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

2018-19	2017-18	2016-17	2015-16	2014-15
19	10	7	8	6

File Description	Document
Reports of the event organized	[View Document](#)
Number of extension and outreach programs conducted with industry,community etc for the last five years	[View Document](#)

3.4.4 Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years

Response: 60.06

3.4.4.1 Total number of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
0	584	543	468	416

File Description	Document
Report of the event	[View Document](#)
Average percentage of students participating in extension activities with Govt. or NGO etc.	[View Document](#)

3.5 Collaboration

3.5.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc during the last five years

Response: 118

3.5.1.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
51	59	7	1	0

File Description	Document
Number of Collaborative activities for research, faculty etc.	View Document
Copies of collaboration	View Document

3.5.2 Number of functional MoUs with institutions of National/ International importance, Other Institutions, Industries, Corporate houses etc., during the last five years (only functional MoUs with ongoing activities to be considered)

Response: 11

3.5.2.1 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years (only functional MoUs with ongoing activities to be considered)

2018-19	2017-18	2016-17	2015-16	2014-15
3	4	1	3	0

File Description	Document
e-copies of the MoUs with institution/ industry/ corporate house	View Document
Details of functional MoUs with institutions of national, international importance,other universities etc during the last five years	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The institution has adequate facilities for teaching- learning. viz., classrooms, laboratories, computing equipment, etc.

Response:

Response:

AAA College of Engineering and Technology adheres the norms laid by AICTE and Anna University for creating and enhancing the infrastructure facilities for effective teaching and learning. The Institute has sufficient classrooms (21-Nos), seminar-halls (6-Nos), various department laboratories, auditorium, library, and internet facility of 50 Mbps including Wi-Fi. The Institution is also furnished with a Smart Classroom. The entire ambience of the college is clean and fresh. All the infrastructure facilities are provided with a vision to help students to develop their academics and career progression skills. Total area of our institution is 43.87 acres and it's built up area is 8.12 acres.

Laboratories/ Computing facility/Drawing halls/Auditorium

The College has exclusive Language laboratory attached with audio and video facilities for enhancing students to gain knowledge. Our institution has seven Computer laboratories with 364 computers out of which 346 are exclusively for student's usage. The total area of Computer Laboratories is 660 sq. meters. All the computers are connected through LAN or Wi-Fi with 50Mbps internet speed to share and access knowledge resources like NPTEL, YouTube etc. The computers have various operating systems like Windows – 10, Windows-XP, Windows-7, Redhat and Ubuntu.

The Institution has sufficient number of drawing halls with drawing tables for the access of students. Our Institution boasts of huge, commodious and fully air-conditioned seminar hall with a seating capacity of 120 people each, an Auditorium having a seating capacity of 800 people and an open auditorium to conduct various curricular and cocurricular events. The College ICT facility includes projectors, wireless microphones, sound systems, public addressing system, desktop recorder and video recorder with internet facility to conduct lectures, seminars, webinars, conferences, guest lectures, and workshops.

Library

The library acts as one of the main learning source centres of the institution and provides services and facilities to meet the requirements of the institute's teaching, training, research and consultancy programmes. The entire library is fully automated with Integrated Learning Management System: ROVAN. The AAACET library is well stacked with more than 11792 books related to Engineering and Technology, Industry related topics and 96 rare books are also available. The library is constantly updated with the latest Magazines, National and International journals, Reference books and other material at regular periods. Core reference collection of various books are also available for all students to upgrade their knowledge.

The Institution has subscribed to DELNET and J-Gate to access online Journal and E-Books. DELNET is very helpful for accessing Journals and Magazines by the faculties and students. The library is equipped

with Digital entry logging system and Online Public Access Catalogue (OPAC). OPAC provides remote access to view E-Journals and E-Books. The institution has subscribed to e-ShodhSindhu which provides access to qualitative electronic resources including full texts, bibliography and factual databases.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

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

Response:

Response:

AAA College of Engineering and Technology encourages students to participate in various extra-curricular activities and provides facilities to take care of physical well being and provide entertainment outlet. A team of faculty members and students are involved in cultural, sports and extra-curricular activities of the college. Our institution is facilitated with various indoor and outdoor games which provides students to enrich their sportsmanship. This aids the students to involve themselves in National and International level Tournaments. TheStudents can refresh themselves by utilizing the Gym facility.

Outdoor and Indoor games

The institute has a total area of 16,800 sq. meters of playground which houses basketball, ball badminton, football, cricket, kho-kho, Kabaddi, handball, hockey, volleyball. Our students have bagged good winning records at intercollegiate and Zonal levels.

The institute is well equipped and spacious enough to conduct various indoor games like chess, carrom and Table Tennis. The college has recently hosted State level Table Tennis Tournament.

Gym

For all-round development of the students, there is fully equipped gym - fitness zone containing all modern equipment. This area (comprising nearly 100 sq. meters) has a range of equipments like dumb bells, Steering plates, Biceps Steering plates, skipping ropes. The other equipment includes double bar, Back Hyper Extension, Fore Arm Extension, Leverage squat/calf raise machine, Bicep cart, fore Arm extension, Pull up stand, Bench press, Abs machine etc.,

Cultural Activities

The institution boasts of huge, commodious and fully air conditioned Auditorium having a seating capacity of 800 people. It is used for conducting seminars, workshops, conferences, cultural events/activities and co-curricular activities. The college has a committee for conducting cultural activities. This committee along

with staffs and students of the college organizes an annual cultural function. The aim of this cultural event is to provide a platform for students to showcase their talents and organizational skills. The students organize and participate in many cultural activities like group Dance, Skits, MIME, Debate, Face Painting, Drawing etc., during the Annual day. The college organizes Annual day function every year where the students participate in many cultural activities with zeal and enthusiasm. To broaden the horizons of the students, they are encouraged to participate in several inter-colligate events. A separate orchestra room with musical instruments has been installed to motivate the students in cultural activities.

Health care

Medical facility is available in the campus for the benefit of the staff and students. A separate dispensary under the supervision of a qualified physician is exists in the campus.

Yoga

The Yoga classes are conducted for students regularly through Physical Education hours. Yoga day is organized every year. All our faculties and students participate in this program. Students are encouraged to perform yoga during college cultural events.

File Description	Document
Any additional information	[View Document]()
Link for Additional Information	[View Document]()

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

Response: 100

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 27

File Description	Document
Number of classrooms and seminar halls with ICT enabled facilities	[View Document]()
any additional information	[View Document]()
Link for additional information which is optional	[View Document]()

4.1.4 Average percentage of budget allocation, excluding salary for infrastructure augmentation during the last five years.

Response: 25.99

4.1.4.1 Budget allocation for infrastructure augmentation, excluding salary year-wise during the last five years (INR in Lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
79.65	102.49	78.21	76.98	68.27

File Description	Document
Details of budget allocation, excluding salary during the last five years	[View Document](#)
Audited utilization statements	[View Document](#)
Any additional information	[View Document](#)

4.2 Library as a Learning Resource

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

Response:

Library is automated using ROVAN Integrated Library Management System (ROVAN ILMS)

Response:

The library of the college is automated through ROVAN ILMS. ROVAN is a leading software company serving colleges and schools since 2002. Library Management System helps to manage the library in college, school and other institutions. It helps to control the resources in the library and serve the students effectively.

Name of ILMS software   :   ROVAN ILMS software

Nature of automation (fully or partially) :   Fully Automated

Version   :   5.1 (Java Version)

Year of Automation : 2017

Screenshots of ROVAN software is given in the additional link and purchase details of this software is also attached as additional information.

1. Database Management - Cataloguing

This module allows to create, update/edit and maintain the following databases.

- Books, Theses, Conference Proceedings, etc.
- Journal- Issues, Articles
- CDs, Video/Audio tapes, Subscription to Newspaper clippings.
- E-Books - Digital Content
- e-JOURNAL
- Rovan software is fully ERP along with Library

2. Search (Online Public Access Catalogue)

This module is designed to search all the above databases using important fields and print the search results in any desired format/order.

This module has:

- Simple Search -(for beginners)- to search the database using important fields such as Accession Number, Call Number, Author, Title, Edition, Year, Publisher, Subject, Keywords, Department, Availability, etc.
- Advanced Query Builder (for experienced users) – to search the database by selecting the desired field(s),criteria for search (starting with, anywhere(like), truncation, word), Boolean Operators(AND, OR, NOT) and sorting order from a list of fields and printing in various formats

3. Circulation Management - Transaction

This module is designed for all types of counter transactions (for all documents types) such as:

- Issue/Renewal/Return
- Reservation / Reservation Cancel
- Overdue receipt/No-due certificate
- Overdue reports
- Statistics/Reports for all counter transactions (daily/weekly/monthly/between specific dates)

4.Report Management

This module is designed to generate and print a large number of reports such as: List of books by author, title, unique titles publisher, supplier, call number, subject, dept, accession number, date, book type and list of journals/publishers/suppliers/members, etc. It also allows to print accession register, catalogues, amount spent by type of documents/depts/subjects and bibliographic reports. All types of statistics/reports for the management can be generated for AICTE/NBA,UGC/NAAC, IMC.

5. System Administration

This module allows to:

- Create new user log-in, password and grant rights to access various modules
- Set overdue charge at various stages/holiday
- Back-up, export and import of data
- Update database using various fields
- Generate charts

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

4.2.2 Collection of rare books, manuscripts, special reports or any other knowledge resources for library enrichment

Response:

Response:

Rare books

The total number of books accessible in the library is more than 11792 and there are 96 rare books are available. The core reference collection of ISHRAE, IETE, ICT Academy publishing is also available to all students to upgrade their knowledge. Library is providing a resource for higher education and career guidance. Delnet is very helpful to access rare books from various institutions libraries.

Manuscripts

Manuscripts collected from various departments like lecture notes and lab manuals are available in our library for student reference. In our institution the faculty members from various departments also published some of the books like Basic Electrical and Instrumentation Engineering (Anuradha Publications) by Dr. C. Senthil Kumar, Professional Ethics (Anuradha Publications) by Dr. C. Senthil Kumar, Power System Transients by Dr. R. Sivasangari (Anuradha Publications), Electromagnetic Fields by Dr. C Senthil Kumar, C. Shanmuga Raja and P.Sivakumar (Anuradha Publications), Satellite Communication by L. K. Balaji Vignesh Sri Krishna Publications), Radar and Navigational Aids by Mrs. G. Subhashini (Suchitra Publications), Mrs.K. Padmapriya has published several books like Sensors and Transducers, Wireless Networks, Transducer Engineering, Opto Electronic Devices, Speech Processing, Digital Image Processing, Mobile Communication Networks, Television and Video Engineering, Medical Electronics and Microprocessor and Microcontroller in (Suchitra Publications).

Other knowledge resources

- **Reference Books** such as Encyclopedias, Dictionaries, Directories, Handbooks, Geographical sources, Manuals and other related self- learning material are located in the stock areas on the Reference section. The library has subscribed for more magazines and newspapers such as the Hindu, India Today, etc., These materials are kept at the magazines section and are meant for reference only within the Library.
- E- Access to Engineering e-books and e-journals are subscribed and made available to students. College provides online access to number of refereed journals to promote research culture. Library has acknowledged Delnet certificate for enriching years of relationship with online resources.
- **Delnet** facilitate more than 500 e-Journals and more than 2000 e – books. There are more e-journals are subscribed from Gale Cengage comprising electrical, electronics, mechanical, and computer related subjects. By using this faculty members published various journals and conference papers.
- **Digital Library** facilities are also available in our institution library. We are accessing more number of e- books and e-journals through open source.

- **Special reports**

  Record of old project reports of students is maintained in the Departmental Library and College Library. There are around many project reports stocked in the College Library for the benefit of students and to motivate the students. The college has separate journal publication in the name of AAA International Journal of Engineering and Applied Sciences. This journal improves the research quality of the staffs and students.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

4.2.3 Does the institution have the following:

1. **e-journals**
2. **e-ShodhSindhu**
3. **Shodhganga Membership**
4. **e-books**
5. **Databases**

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: A. Any 4 of the above

File Description	Document
Details of subscriptions like e-journals,e-ShodhSindhu,Shodhganga Membership etc	[View Document](#)
Any additional information	[View Document](#)

4.2.4 Average annual expenditure for purchase of books and journals during the last five years (INR in Lakhs)

Response: 6.1

4.2.4.1 Annual expenditure for purchase of books and journals year-wise during the last five years (INR in Lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
4.37	5.38	6.10	3.92	10.75

File Description	Document
Details of annual expenditure for purchase of books and journals during the last five years	[View Document](#)
Audited statements of accounts	[View Document](#)
Any additional information	[View Document](#)

4.2.5 Availability of remote access to e-resources of the library

Response: No

File Description	Document
Any additional information	[View Document](#)

4.2.6 Percentage per day usage of library by teachers and students

Response: 10.77

4.2.6.1 Average number of teachers and students using library per day over last one year

Response: 73

File Description	Document
Any additional information	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

Introduction:

Institution has various IT facilities like Computers, Wi-Fi Hot Spots, Projectors, Internet and e-Governance Software and Server, as per AICTE Norms. The foolowing is a brief account of the above.

(a) Computers:

Institution updates and upgrades the computer facilities as per the requirement and intake of the students periodically. All the computers are interconnected through wireless network using switches. The Institution initially started with 95 computers and the number of computers were increased by 118 in the year 2014 – 2015 followed by which it was increased to 29 in the year of 2015-2016. Later 50 and 40 numbers of computer were added consecutively in the year 2016 – 2017 and 2017 – 2018. In the year of 2019, 32 Computers of Intel I5 Core processor were incorporated in the institution. With the consolidation of all the computers purchased, the institution is equipped with a sum of 364 number of computers.

(b) Internet Facility:

Wifi Connectivity in the institution was initialized only to departments and office premises. In the year 2014, the entire campus including boy's hostel, girl's hostel, administrative block and placement cell were connected with the high speed Wifi facilities which sums up to a total of 55 Wifi hotspots in the institution. The Institutional Data Centre is periodically updated with DHCP, DNS, Firewall Server, Storage Server, Ubuntu Server, Communication Server, Firewall, Cisco 3800 series router and Network Video Recorder.

Regarding Bandwidth, 10 Mbps was available in the year 2012. It was then updated to 20 Mbps and 50 Mbps in the year 2016 and 2017 respectively.

(c) Projectors :

Prior to 2016-17, 10 number of projectors were available in the campus. In 2017-18, number of projectors were increased to 22. Recently the college installed BenQ Projectors which is enabled with Wifi facility.

(d) Other facilities:

Prior to 2017-18, 5 number of Servers were in the campus and currently there are 8 number of servers. College was initially equipped with 8 printers and then it was increased to 10 printers in the year 2015. The Government has installed the institutional computers with E-governance software for conducting Online Competitive Examinations. Separate computers were allocated to the specialized labs like Internet of

Things and Bosch lab, which was established in the year 2018. 16 Wifi Dongles were purchased for the establishment of IoT.

In the year 2019, Software named Primevera was installed in the Department of Civil Engineering for Management of Construction Projects. The College imparts the trending technologies like AWS, Autodesk Fusion - 360 and Reviet for sharpening the skills of the students.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

4.3.2 Student - Computer ratio

Response: 1.77

File Description	Document
Any additional information	[View Document](#)

4.3.3 Available bandwidth of internet connection in the Institution (Lease line)
>=50 MBPS

35-50 MBPS

20-35 MBPS

5-20 MBPS

Response: >=50 MBPS

File Description	Document
Any additional information	[View Document](#)

4.3.4 Facilities for e-content development such as Media Centre, Recording facility, Lecture Capturing System (LCS)

Response: No

File Description	Document
Facilities for e-content development such as Media Centre, Recording facility,LCS	[View Document](#)

4.4 Maintenance of Campus Infrastructure

4.4.1 Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years

Response: 14.75

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

2018-19	2017-18	2016-17	2015-16	2014-15
59.82	54.42	50.60	41.19	25.93

File Description	Document
Details about assigned budget and expenditure on physical facilities and academic facilities	[View Document](#)
Audited statements of accounts.	[View Document](#)
Any additional information	[View Document](#)

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

Response:

AAA College of Engineering and Technology has established systems and procedures for maintaining both physical and academic supporting facilities. Technicians check the appropriate facilities for lab frequently. Internal maintenance complaint register is maintained in the institution. If maintenance/service is identified then, required maintenance/service is registered in college maintenance register. The required maintenance/service is carried out by the technicians. The various college maintenance/services are, maintaining student's bench and table, staff table and chair, laboratory work benches, chairs, stools, lights, fans, switches, water pumping motors, college bells, UPS, electricity generator and wirings. Dedicated campus cleaning team is available to monitor campus cleanliness such as floor cleaning, classroom and staff room cleaning, gardening, RO water maintenance, plumbing, toilet cleaning process and uninterrupted water supply. Well experienced IT team is maintaining the Computer hardware and software, printers, photocopier, AC, WIFI and LAN connection in our college.

The Office Manager is looking after the student's fees collection, salary details of teaching and non teaching staff. Purchase of consumable is also maintained by the Office Manager. Key movement registers, Seminar hall utilization register and maintenance register is taken care by the Administrative Officer.

College physical education department looks after the maintenance of sports equipment, gym, indoor and outdoor grounds as per the gaming rules. College Buses and other vehicles are maintained by

Administrative Officer. College canteen is hygienically maintained to ensure good quality food by Administrative Officer. Librarian maintains the online issue registers to monitor the book circulation among students and staff. Books stock register is properly maintained and auditing of books is performed annually. Every year institution allocates department wise budget for the purchase of books and periodicals.

The campus holds well established standard systems and procedures for maintaining the physical, academic and support facilities that are governed by the supervision of faculty in-charges in college level. They ensure the various aspects of utilization and maintenance of the physical, academic and support facilities such as maintenance of buildings, laboratories, classrooms, library, computers, etc.

The proper function of equipment in all laboratories is ensured in every semester by the lab technicians and minor repairs such as installing replacement parts are carried out by them as and when they are needed. Then it is recorded in service register. When there is a major repair work, the purchase committee handles the service and maintenance request appropriately by placing an order to the corresponding engineering experts during summer vacation. Stock register is maintained in all laboratories and audits are conducted by stock verification committee to check the availability and working of the equipment every year.

First aid kits are kept in all major laboratories and department to meet any eventuality. Fire extinguishers of ISI mark of adequate capacity and numbers are provided in eye catching spots in the college buildings especially in all laboratories. Fire extinguishers are well maintained and checked periodically and refilling is done well before the due date. The general maintenance procedures followed in the laboratories are as follows.

1. Lab stock register is maintained and updated by the lab faculty in-charge and technicians.
2. Stock verification is verified and inspected by the Heads of the Department.
3. Old and outdated equipment, chemicals and instruments are discarded by following the standard procedure.
4. Proper functioning of equipment in all laboratories is ensured in every semester by the lab technicians.
5. Breakage or repair if any, are reported to the Head of the department and Lab faculty in-charge and appropriate measures are to be taken for quick functioning of the equipment.
6. Floor cleaning of labs are done on a daily basis by sweepers.
7. List of the experiments are pasted in the laboratories for the reference of students.
8. Students are given proper instructions to work with the equipment efficiently.
9. Computer Lab assistants under the supervision of the System administrator maintain the efficiency of the college computer and accessories.
10. All the PCs and related equipment like printers, scanners, etc., are backed up by UPS in regular basis.
11. All the computers are installed with required software at the start of every semester and license is renewed periodically.

Principal manages to maintain sufficient human resources in order to ensure smooth going of academic activities and other maintenance activities. Periodically Principal spend time for monitoring the academic and physical facility maintenance processes.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years

Response: 0

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

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

File Description	Document
Upload self attested letter with the list of students sanctioned scholarships	[View Document](#)
Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years	[View Document](#)
Any additional information	[View Document](#)

5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution besides government schemes during the last five years

Response: 10.03

5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution besides government schemes year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
99	85	72	55	28

File Description	Document
Number of students benefited by scholarships and freeships besides government schemes in last 5 years	[View Document](#)
Any additional information	[View Document](#)

5.1.3 Number of capability enhancement and development schemes –

    1. **For competitive examinations**
    2. **Career counselling**
    3. **Soft skill development**
    4. **Remedial coaching**
    5. **Language lab**
    6. **Bridge courses**
    7. **Yoga and meditation**
    8. **Personal Counselling**

A. 7 or more of the above

B. Any 6 of the above

C. Any 5 of the above

D. Any 4 of the above

Response: A. 7 or more of the above

File Description	Document
Details of capability enhancement and development schemes	[View Document](#)
Any additional information	[View Document](#)
Link to Institutional website	[View Document](#)

5.1.4 Average percentage of student benefited by guidance for competitive examinations and career counselling offered by the institution during the last five years

Response: 80.27

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

2018-19	2017-18	2016-17	2015-16	2014-15
574	605	742	584	240

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	
Any additional information	

5.1.5 Average percentage of students benefited by Vocational Education and Training (VET) during the last five years

Response: 37.87

5.1.5.1 Number of students attending VET year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
284	300	274	268	143

File Description	Document
Details of the students benifitted by VET	
Any additional information	

5.1.6 The institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

Response: Yes

File Description	Document
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	
Details of student grievances including sexual harassment and ragging cases	

5.2 Student Progression

5.2.1 Average percentage of placement of outgoing students during the last five years

Response: 90.51

5.2.1.1 Number of outgoing students placed year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
147	167	225	1	1

File Description	Document
Self attested list of students placed	View Document
Details of student placement during the last five years	View Document

5.2.2 Percentage of student progression to higher education (previous graduating batch)

Response: 10.56

5.2.2.1 Number of outgoing students progressing to higher education

Response: 17

File Description	Document
Upload supporting data for student/alumni	View Document
Details of student progression to higher education	View Document

5.2.3 Average percentage of students qualifying in State/ National/ International level examinations during the last five years (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)

Response: 20

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil services/ State government examinations) year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
1	0	0	0	0

5.2.3.2 Number of students who have appeared for the exams year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
1	0	0	0	0

File Description	Document
Upload supporting data for the same	[View Document](#)
Number of students qualifying in state/ national/ international level examinations during the last five years	[View Document](#)
Any additional information	[View Document](#)

5.3 Student Participation and Activities

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

Response: 23

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

2018-19	2017-18	2016-17	2015-16	2014-15
9	4	7	1	2

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at national/international level during the last five years	[View Document](#)
e-copies of award letters and certificates	[View Document](#)

5.3.2 Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution

Response:

AAA College of Engineering and Technology focuses on improving students' academic and administrative skills by involving them in various administrative and academic activities. The college includes the students to be members in administration by their representation in Internal Quality Assurance Cell (IQAC), grievances and redressal committee, academic committee, department association, anti-ragging committee, SC/ST committee and the alumni association. Student representatives are also included in the organization of placement, sports activities, and women's empowerment cell.

The students participate as members in various cell and clubs in the college such as National Service

Scheme, Rotaract club, Youth Red Cross club, Yoga club, Nature Club and Entrepreneurship Development Cell. Further, the students are included as members of the college newsletter editorial board. The college also encourages students' participation in various center activities such as IIoT, Innovation Incubation and IPR center, MHRD's Institute Innovation Council and e-Yantra robotics lab. Students actively participate in the academic activities organized by various departments through various professional chapters of the institute.

The main objective of IQAC is to develop a system for sensible, consistent and catalytic action to improve the academic and administrative performance. In this regard, Students are included as a member to comment their academic and non-academic requirements.

The Grievances and Redressal committee, Anti-ragging committee and Sexual Harassment redressal committee of AAACET has the motive of solving the problems among the students and faculties. The committee collects the complaints in regular basis and solves it at the earliest.

MHRD's Institute Innovation council (IIC) was established in our Institute on 17 Sep 2019. The students' coordinators are selected for Innovation, start-up, IPR, Internship and social media activities.

Our college NSS unit contains students from all the departments under the guidance of the Principal and an NSS Coordinator. NSS unit undertakes activities such as blood donation camps, road safety awareness, AIDS awareness, election awareness, health awareness, environmental awareness, and tree plantation programs, etc., NSS also visits local villages and conduct cleaning program as per swachh Bharath schemes.

Rotaract club provides an opportunity for young men and women to enhance the knowledge and skills that will assist them in personal development, to address the physical and social needs of their communities, and to promote better relations between all people through a framework of friendship and service.

Women's empowerment cell organizes various programs on health awareness for women and programs on professional development in uplifting their social status in society. Along with sexual harassment cell it focuses on gender equity issues on the campus.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

5.3.3 Average number of sports and cultural activities/ competitions organised at the institution level per year

Response: 22

5.3.3.1 Number of sports and cultural activities / competitions organised at the institution level year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
34	22	26	26	2

File Description	Document
Report of the event	View Document
Number of sports and cultural activities / competitions organised per year	View Document

5.4 Alumni Engagement

5.4.1 The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and non financial means during the last five years

Response:

The alumnus plays a significant role in strengthening our institution. The main objective of AAACET is to enroll all alumni as members of the association facilitating active participation in the appropriate activities, events, and initiatives of the Institute. The alumni meet is conducted twice in a year, where the alumni from different branches of the undergraduate programs share their views and give suggestions for the betterment of their junior students & institution/ department. Such meetings are mutually beneficial for the Institution and the alumni.

Alumni are invited to an institution to deliver Guest lectures and seminars to the students in their areas of expertise and motivate the young minds. Successful entrepreneurs from the alumnus have shared their success stories on various occasions of the Institute. The alumni also help the final year students of the various streams of engineering to get their project placements and summer internship in their companies and assist the students for placement through their reference.

The General activities of the AAACET's Alumni Association include:

1. Creating, updating, and maintaining the AAACET's Alumni Database

2. Updating the alumni of AAACET's with the developmental activities of the college.

3. Assist the college in arranging talks from the alumni and other corporate sectors.

4. Promoting students, alumni, and faculty interaction.

5. Involving the alumni in social activity.

Contribution to the development of the institution through non-financial means

Mentorship: Alumni play an active role in voluntary programs like mentoring students in their areas of

expertise for the students in securing suitable jobs by utilizing their rich experience of old students.

Placements: The alumni network of the college is one of the biggest sources of placement opportunities to the students. Alumni can help students get placed at their respective organizations. Job opportunities are provided by the alumni in their companies.

Opportunity for professional development: The senior successful alumni can be the most effective medium not just for the institute graduates but also with the younger alumni. Alumni from the corporate world, the industry can potentially create a stronger network as well as trust on the institute and in turn, will assist younger alumni from the institute to access opportunities in improving their careers and professionalism.

Contribution to the development of the institution through financial means

AAACET has strong institute- alumni interaction. Currently, we have three batches of passed-out students and those students are in the development stage of their career. Hence there are no significant contributions from the alumni students in terms of their financial support.

File Description	Document
Link for Additional Information	[View Document](#)

5.4.2 Alumni contribution during the last five years(INR in Lakhs)

? 5 Lakhs

4 Lakhs - 5 Lakhs

3 Lakhs - 4 Lakhs

1 Lakh - 3 Lakhs

Response: <1 Lakh

File Description	Document
Alumni association audited statements	[View Document](#)

5.4.3 Number of Alumni Association / Chapters meetings held during the last five years

Response: 5

5.4.3.1 Number of Alumni Association /Chapters meetings held year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
2	2	1	0	0

File Description	Document
Number of Alumni Association / Chapters meetings conducted during the last five years.	[View Document]
Any additional information	[View Document]

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the institution

Response:

VISION

- Emerge as a Premier Institute for Quality Technical Education and Research with social responsibilities.

MISSION

- To offer state of the art infrastructure for under graduate, postgraduate and doctoral programs.
- To provide holistic learning ambience blended with professional ethics, leadership qualities and social responsibilities.
- To disseminate knowledge and undertake research in field of Engineering and Technology.
- To inculcate innovation and creativity among student community to become successful entrepreneurs.
- To undertake collaborative projects with academic, research centres and industries to provide cost–effective solutions.

- AAA College of Engineering and Technology was established in the year 2013 by Shri. P. Panjurajan–Amaravathy Trust in Sivakasi. The institution was established with a goal of imparting quality technical education to rural students. Our institution constantly endeavors excellence in technical education through sound pedagogical methods, state of the art facilities and well qualified faculty to produce top-notch professionals with enduring human and ethical values.
- The institute is governed by the Governing Council consisting of eminent academic and industry experts. Governing Council is convened once a year to review the progress of the institute and approve the recommendations of the Academic Council.
- The perspective plan of the institute is to modernize existing infrastructure facility, development of industry powered laboratories and to achieve academic excellence.
- The management of the institute is assisted by Principal, Heads of the Departments, Academic Coordinators, faculty and staff members to enhance the quality of the academics, research activities and infrastructure.
- The Principal takes decisions in the academic frontiers in tune with the vision and mission of the institute as well as the regulations of the Anna University, Chennai.
- The Principal, HoDs, Academic Coordinators, Physical Director and coordinators of various committees meet before the commencement of the academic year to prepare the academic calendar.
- HoDs after discussions with the faculty prepare the department academic calendar by including department level activities.

- Regular meeting is conducted every fortnight by Principal with the HoDs to review the progress of the students, faculty, activities and assess the needs of the programs like lab equipment, calibration, consumables etc.,
- The Principal conducts meetings periodically with the faculty, coordinators of various committees, students and parents.
- HoDs conduct meetings with faculty and students regularly to monitor students' progress and other activities as planned in the department academic calendar.
- Inputs received from meetings with students, faculty and HoD play a pivotal role in the development of the institution. The suggestions are discussed and analyzed for implementation during the HoDs meetings. The valid points are escalated to the top management during the Principal's meetings with the management.
- The establishment of our organizational structure ensures smooth flow of official communication across all levels and effective implementation of new ventures. Also it paves the way for successful interaction and feedback from all the stakeholders of the institute. Organizational changes are made not only based on needs but also in view of excellence.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

6.1.2 The institution practices decentralization and participative management

Response:

AAA College of Engineering and Technology has an efficient decentralized administration with transparency. The college has a solid mechanism for delegating authority at all levels of the institutional hierarchy. This empowers every individual of our institution to participate in the decision making process at their respective levels. The college functions under the guidance of Governing Council and by following the rules and regulations of statutory bodies.

Decentralization in working :

- All the departments of the Institution, Administrative office, Examination section, Library function under the direct supervision of Principal.
- Day-to-day academic activities of the departments are taken care by the respective HoDs.
- Subject allocation is done by the HoDs based on the expertise and willingness of the faculty. The time table is prepared by the time table coordinators of the respective departments.
- Internal and External examinations are entrusted with the Institute's Examination Cell.
- Principal conducts HoDs meetings periodically to discuss the progress and issues and the minutes are recorded.
- The outcomes of Principal meetings are disseminated to individual faculty/staff for information and implementation.
- HoDs share the responsibility with senior faculty members to coordinate various academic activities and student enrichment courses.

- The Placement and Training cell functions with a Placement officer and coordinated by department placement coordinators.
- Co-Curricular and extra-curricular activities are delegated to the faculty members and student representatives.
- The office maintains the administrative and academic records of the students, faculty, staff and institution. The office manager and staff assist students to receive scholarships, bank loans, bus passes, internships and field projects, etc.,
- Campus maintenance, physical, academic and support facilities are delegated to the administrative officer.
- The administration constitutes different council/committees/cells/clubs with the representation of faculty members and students to carry out various activities.

The members and roles & responsibilities of all council/committees/cells/clubs are given as attachment.

The case study for the preparation of Academic Planner :

- The extract of Academic calendar for every year is prepared at the end of the previous academic year. Principal convenes a meeting with HoDs, Coordinators, Librarian and Physical Director where the events proposed by them are discussed. The schedule of the academic/co-curricular/extra-curricular activities are finalized in accordance with the schedule provided by the affiliating Anna University. HoDs after discussions with the faculty prepare the department academic calendar by including department level activities. The Academic Calendar includes

- Re-opening date for every Semester
- Working days/Last working day/ Holidays
- Internal Test/Model Exam/University exam schedules
- Symposium
- Guest Lectures
- Industrial Visits
- Placement & Training
- FDPs/Workshops/Seminars/Conferences
- HoDs meetings/Dept. faculty meetings
- Institute level events includes Induction Day, Engineers Day, Sports day, Annual day, Placement Day, Graduation Day, etc.,
- Course file audit

The academic calendar prepared is forwarded by the Principal to the academic council for review and submitted to the Governing council for approval. After receiving the approval, committees are formed to plan and execute the scheduled activities.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

6.2 Strategy Development and Deployment

6.2.1 Perspective/Strategic plan and Deployment documents are available in the institution

Response:

Yes. Available.

Effective strategic planning requires identifying and implementing strategies that will move AAACET to a better desired future as an educational and research institution in Sivakasi as well as in the state of Tamilnadu and at the national level. Strategic planning is a continuous process involving planning, implementing, assessing outcomes and using results and lessons learned for further planning and revision and/or modification of strategies. In the preparation of the Perspective Plan, the Internal Quality Assurance Cell (IQAC) of the college has taken initiatives to obtain inputs from all the stakeholders viz, Management, Principal, faculty, administrative staff, students and parents. Stakeholders' expectations, management policies, vision, mission and quality policy of the college is also considered as a base for formulation of the perspective plan.

The prime role of IQAC is to suggest quality measures for the betterment of an institution. While preparing a road map for future growth, the members of the IQAC have considered Feedback from all the stakeholders and the recommendations specified in the meetings of the IQAC. Besides, innovative ideas as suggested by all the stakeholders are also carefully incorporated in perspective plan. Student feedback, self-appraisal of teachers, faculty training programmes arranged by the college as well as attended by teachers, encouraging teachers for research are some of the measures initiated with priority.

The Institution believes in development of excellence in all spheres of ongoing process. This is made feasible with the help of perspective/strategic plans that chalk out the necessary action to be taken to grow and develop. The Institution provides conducive atmosphere for the students to excel in their studies and come out successfully.

The Institution has plans for the development of Strategic/perspective plan for the period from 2018 - 2023.

- To get NAAC accreditation by 2020.
- To get NBA Accreditation for the eligible departments by 2020.
- To establish Centers of Excellence and Professional Labs in collaboration with industries and institutions for each department by 2021.
- To motivate all the faculty members to register Ph.D by 2020.
- To be*c*ome an Autonomous Institution by 2023.
- To become as one of the premier technical institute by 2023.
- To Improve the Employability skills of the students.
- To encourage the students participating in co-curricular/extracurricular activities.
- To get funds from various funding agencies like DRDO, DST, TNSCST, CSIR and AICTE to organize Conferences/Seminars/Workshops/FDP.
- To get research centre recognition for eligible departments.
- To encourage faculty members to publish papers in reputed International/National Journals with good impact factor.
- To intensify the activities of Institute Innovation cell for undertaking more industry oriented projects.

- To offer more value added certification courses in addition to the existing courses and provide coaching for competitive exams.
- To serve as a platform to disseminate scientific knowledge to the academic community by conducting international and national level conferences and workshops.

The activities successfully implemented towards achieving the strategic plan are given as attachment.

File Description	Document
Any additional information	View Document
Strategic Plan and deployment documents on the website	View Document
Link for Additional Information	View Document

6.2.2 Organizational structure of the institution including governing body, administrative setup, and functions of various bodies, service rules, procedures, recruitment, promotional policies as well as grievance redressal mechanism

Response:

AAA College of Engineering and Technology is functioning with a governing council and an active administrative setup.

GOVERNING COUNCIL

AAA College of Engineering and Technology was established in the year 2013 with an objective of imparting high standard of education to rural students. The institution is located at Amathur, Sivakasi, Tamilnadu. The institution is governed by the directions of the Governing council which comprises of Academicians and Industrial Experts. The Chairman/Secretary/Correspondent of the institution is ably supported by the Governing Council in introducing matters of Policy, Planning and Development of the Institution. The Principal governs the institution as per the directions of the governing council and the strategic plans are executed by college academic council which includes the heads of the departments, administrative heads, librarian, NSS officer, exam cell coordinator, physical director, etc.,.

Subject to the existing provision in the bye-laws of the college and rules laid down by the State Government/Affiliating University, the governing council shall undertake the following activities :

1. Prescribe rules for admission in consonance with the reservation policy of the state government/national policy.
2. Promote research in relevant fields.
3. Suggest methods of assessment of student's performance and evolve strategies for getting better results.
4. Use modern tools of educational technology to achieve higher standards and greater creativity.
5. Promote healthy practices such as community service, extension activities and to implement project for the benefit of the society at large.

6. Fix fees of the courses based on the rules lay down by the State Government.
7. Institution has complete administrative autonomy and has the privilege of appointing their own administrative staff and teaching faculty.
8. Empowering the students with awards, stipends, scholarships, medals, prizes and so on.

HUMAN RESOURCE PLANNING

- The Principal assess in the month of April every year, the staff requirement for the subsequent academic year.
- He obtains the staff requirement lists from all the Head of department and arrives at the number of faculty members, Lab assistants and administrative staff required.
- He considers appointing a Professor to be the Head of every discipline, besides the number of Associate Professors & Assistant Professors required in accordance with the teacher student ratio prescribed herein.
- The teacher student ratio shall be 1:20.
- He appoints a selection committee for recruitment in each discipline, composed of the Principal, HoD, Subject Experts from the neighbouring institutions and Management representative/s.

The members and roles & responsibilities of all council/committees/cells/clubs, Service rules, procedures, recruitment and promotional policies are given as attachment.

GRIEVANCE REDRESSAL MECHANISM

- The Principal constitutes a Grievance committee to redress the grievance of the students, teaching and Non-teaching staffs.
- Any student, teaching or non-teaching staff having a grievance, he or she makes a representation to the committee. An on-line portal is also available for registering the grievances. The information is kept confidential. The class committee meetings also provide inputs to the Grievances re-dressal cell.
- Faculty members are deputed to identify the areas of conflict among the students and propagate the strength of unity and collaboration.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

6.2.3 Implementation of e-governance in areas of operation

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

A. All 5 of the above

B. Any 4 of the above

C. Any 3 of the above

D. Any 2 of the above

Response: A. All 5 of the above

File Description	Document
Screen shots of user interfaces	[View Document](#)
ERP Document	[View Document](#)
Details of implementation of e-governance in areas of operation Planning and Development,Administration etc	[View Document](#)
Any additional information	[View Document](#)

6.2.4 Effectiveness of various bodies/cells/committees is evident through minutes of meetings and implementation of their resolutions

Response:

The institution has an integrated framework for quality assurance of both academic and administrative activities in the form of various committees/cells/clubs. Institution established various Committees/Cells/Clubs and their roles and responsibilities are properly defined, considering the overall development of the institution. A team of eminent Governing council members, Head of the institution, HoDs and the faculty members having research focus continuously works towards the improvement of the institution.

The sample minutes of meetings of various committees are given as attachment.

In addition to the above, with the leadership of the Principal, the committee will be formed with specific tasks pertaining to the requirements of conducting various functions/events.

The following sequence of activities was done after constituting the committees.

- Conducting meetings for the committee members with Principal to discuss the works to be carried out.
- Execution of works as planned
- Coordinator of the committee monitors the progress of the works.
- Successful conduct of the function/event.

One activity successfully implemented based on the Minutes of the meetings :

In AAA College of Engineering and Technology, the Women Empowerment cell (WEC) takes well-directed efforts to enhance the girl students' empowerment skills. The action plans of Women Empowerment Cell are successfully implemented based on the Minutes of the meetings of an Advisory Committee that functions under the Coordinator of the Cell.

Women Empowerment Cell Committee meeting was convened on 7.02.2019 to discuss the action plan for the current semester. The following resolutions were passed in the meeting and the minutes were recorded. The resolutions passed in the Women Empowerment cell meeting are:

- To celebrate the Women's day on 8th March 2019.
- To conduct an oratorical competition (both in Tamil and English) for the girl students.
- Arrange lecture on awareness of women health and Hygiene to the women's students and staff.
- To conduct awareness program on common health issues faced by today's women with its simple solutions.
- Conformation/adoption of UGC guidelines on women grievances.

Implementation

These resolutions were successfully carried out by the WEC members of the cell with the guidance from the Principal.

1. International Women Day was celebrated on 8th March 2019.
2. Chief guest Dr.Rama venkatesh, Gynecologist and fertility specialist, Lakshmi hospital and test tube baby center, Sivakasi delivered an awareness lecture on women health and Hygiene. In her address, she insisted on the importance and pride of being born as a girl transition from childhood to adolescence and achieving motherhood by all physical and mental and psychological means.
3. An oratorical competition (both in Tamil and English) for the girl students was successfully conducted and prizes have been distributed.
4. The girls of our college performed various cultural events like silambam, Mime on women empowerment, Dance performance narrating the life of woman and vocalist performing songs in praise of feminism.

Thus, the Women's Empowerment Cell of the college takes well-directed efforts to put the girl students on the path of becoming successful women.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

6.3 Faculty Empowerment Strategies

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

Response:

AAA College of Engineering and Technology provides the following effective welfare measures for the teaching and non-teaching staff.

The College's effective Welfare Measures for the Teaching Staff :

- Medical leave, Maternity leave & Marriage leave.
- Sponsorship for attending seminars, workshops and FDPs.
- Sponsorship for presenting papers in national/international conferences.
- Medi-claim facility.
- Group Insurance.
- 5% of the amount sanctioned as Cash award for getting financial grants, funds & patent from government/private agencies for research projects.
- Cash award of 3% of the total grant sanctioned by the funding agencies for organizing seminars, workshops, FDPs and national/international conferences.
- Rs.10,000/- as incentive for faculties those who have completed Ph.D in Engineering and Rs.5,000/- as incentive for faculties those who have completed Ph.D in Science & Humanities.
- Cadre promotion for the faculties those who have completed Ph.D.
- Incentive for publication of papers / research articles in reputed journals.
- Awards for academic excellence for getting 100% pass percentage.
- The Institution ensures good quality of teaching by means of conducting quality improvement programs, workshops, faculty training programmes & facilitating teaching learning opportunities for faculty.
- Motivation for organizing guest lectures, workshops, seminars and value added courses.
- Causal leave/Compensatory leave to all eligible faculty.
- Winter and summer vacation leave to all eligible faculty.
- Motivation to apply research proposals for getting financial grants, funds & patent from government/private agencies.
- Encouragement to enroll as members of various professional bodies and societies.
- Motivation to conduct in-house faculty development programmes to enhance professional teaching & communication skills.
- Interest free loan for paying semester fees to university for their Ph.D.
- Interest free loan in case of marriage/emergency situations.
- Cash award for a book authored by the faculty and published by reputed publishers.
- Cash award for the recipient of any international/national/state awards.
- Onduty for faculties pursuing Ph.D.

Resources :

- All adequate facilities are provided to the faculty to make best use of all the resources like internet, e-learning resources, library facilities, national & international journals.
- Research facilities to the faculty to present their research work at conferences (national & international) and share their technical expertise as resource persons.
- All facilities such as use of laboratories, use of computers, e-library is provided to faculty to pursue research.
- A central research facility is also available for facilitating experimentation & high end computing.

Concessional Practices :

- Granting on-duty leave to the Faculty to attend viva voce for Ph.D. and to act as resource persons in other Institutions.
- Rs.5000/- fee waiver for faculties children in the schools run by the management.
- Subsidized mess fee for all faculty in the hostel.
- Faculty members staying in hostel are entitled for free accommodation.
- Free Medical emergency transportation.
- 3 days paid leave is extended to the faculty/staff members on the occasion of their marriage.

The College's effective Welfare Measures for the Non-Teaching Staff :

- Employees Provident Fund (EPF).
- Employees' State Insurance (ESI) meant for Employees' medical benefits.
- Free Medical emergency transportation.
- Medical leave, Maternity leave & Marriage leave.
- Winter and summer vacation leave.
- Group Insurance.

File Description	Document
Any additional information	[View Document]
Link for Additional Information	[View Document]

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

Response: 23.86

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

2018-19	2017-18	2016-17	2015-16	2014-15
25	35	21	8	3

File Description	Document
Details of teachers provided with financial support to attend conferences,workshops etc. during the last five years	View Document
Any additional information	View Document

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

Response: 13.4

6.3.3.1 Total number of professional development / administrative training programs organized by the Institution for teaching and non teaching staff year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
21	15	13	10	8

File Description	Document
Details of professional development / administrative training programs organized by the Institution for teaching and non teaching staff	View Document
Any additional information	View Document

6.3.4 Average percentage of teachers attending professional development programs viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Program during the last five years

Response: 56.28

6.3.4.1 Total number of teachers attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Programs year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
50	49	36	29	32

File Description	Document
IQAC report summary	[View Document](#)
Details of teachers attending professional development programs during the last five years	[View Document](#)
Any additional information	[View Document](#)

6.3.5 Institution has Performance Appraisal System for teaching and non-teaching staff

Response:

The institution has the practice of evaluating the performance of both the faculty members and non-teaching staff by Performance Appraisal System.

The performance of the faculty is evaluated based on teaching, research, participation in institution building activities and organizing co-curricular and extracurricular activities and student feedback. Similarly Performance Appraisal System for non-teaching staff is comprised of appraisals made by the staff (self-appraisal) and HoD/Reporting officer. The performance of the staff member is evaluated based on professional competence, performance and personal characteristics. The appraisal system motivates the staff members to excel and put forth the best of their efforts.

Faculty Performance Appraisal System for Teaching Staff

The performance appraisal system has the following 4 components.

1. **Academic performance**
2. **Research Activities and Self Development**
3. **Activities relating to Institution Building**
4. **Feedback from students**

1. **Academic performance**
    - Result Percentage produced in the University Examinations
2. **Research Activities and Self Development**
    - FDP/STTP/Workshop/Seminar Participations
    - Ph.D. candidates produced
    - Guest Lectures to be delivered in other Institutions
    - Member in any Professional Society
    - Awards received from Govt./Private external agencies
    - Reviewers/Editors in Journals
    - Book publications
    - Journal Publications
3. **Activities relating to Institution Building**
    - Research project funds received from funding agencies
    - Conference Presentations / Publications

- FDP/STTP/Workshop/Seminar organized
- National/International Conference organized
- MoUs made with minimum 2 activities
- Departmental Activities – Awarded By HoD
- Institutional Activities – Awarded by Principal

4. **Feedback from students**

- The feedback is collected from all the students about the teaching learning methodologies and faculty in-depth knowledge in the subjects handled by them. This feedback is also included in the performance appraisal for the concerned faculty.

- A sample of the appraisal form is given as attachment.
- The faculty appraisal forms are reviewed by the respective Heads of the Departments and forwarded to the Principal with their comments.
- The Principal recommends increment to the faculty based on the appraisal form.
- If the performance of the faculty is satisfactory, the Principal recommends for an increment for the concerned faculty. At the same time, if the performance of the faculty is below par, they are counselled by the HoD/Principal to show better performance in the subsequent semester.

Performance appraisal system for non-teaching staff (NTPAS):

The performance appraisal system for non-teaching staff has the following components :

- Experience and Work Discipline.
- Active participation in institution building activities.
- Skill up gradation through participation in orientation programs, refresher course, short term courses and training programs.
- Completion of Higher Studies.
- Duties & responsibilities
- Development of a working model.
- Feedback from HoD/Reporting officer/Principal.

A sample of the appraisal form is given as attachment.

The college has a performance appraisal mechanism for all the office staff. With the guidelines from the Principal, the Office Manager analyses the performance of the non-teaching staff. After the analysis, if the performance is satisfactory they become eligible for increments else if the performance is found to be below the stipulated threshold, they are counselled by the Principal & office manager to improve their efficiency in discharging their duties.

File Description	Document
Any additional information	[View Document](#)

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

Yes, the Institution has a system for Internal and external audit. The Governing Council of the Institution consisting of management representatives, industry and academic members preview financial year budget proposals submitted by the Principal. The proposals are made on different heads such as laboratory equipment, library expenses, salary, building infrastructure and other maintenance expenses, etc.,

Internal Audit and External Audit

An effective mechanism is followed by the institution for auditing all the accounts. The institution has appointed a Finance Officer who verifies and checks bills and vouchers, passes the bills, manages the fund after the discussion with the Principal/Management. The institution has both internal and external audit mechanisms. A qualified Chartered Accountant, recognized by ICAI is appointed as external auditor by the management, who executes the statutory financial audit at the end of every financial year. An internal auditing committee verifies the income and expenditure details of the Institution as per the balance sheet then all the statements are forwarded to external auditor for further verification and for generating the income expenditure statement for the purpose of income tax.

Procedure for Preparation of Budget

Institute prepares budget for every academic year. All HoDs prepare the budget for their respective departments as per the guidelines provided by the Principal. HoDs prepare the budget on the basis of the requirements for setting up new labs, new lab equipment's, consumables and funds needed for conducting various academic activities like guest lecture, workshops, seminars and text/reference books,etc.,

 Principal after discussions with all the HoDs, consolidates the budget proposals submitted by them and includes the other financial components such as salaries & allowance, and administrative expenses like stationeries, software, building maintenance, electricity, water, telephones, mails, Institution transport and fuel expenses for the preparation of overall organizational budget and then it is forwarded to the governing council for approval.

 During the course of Internal Audit, all required steps are taken to regularize the accounts and to obtain confirmations for the credit balances, compliances of T.D.S. and Statutory Formalities and Reconciliation of Unit wise balances with the Control Accounts and Bank Reconciliations. Subsequently, External Statutory Audit is conducted by the auditors and the final audit report with audit findings are submitted to the Management.

File Description	Document
Any additional information	[View Document](#)

6.4.2 Funds / Grants received from non-government bodies, individuals, Philanthropists during the

last five years (not covered in Criterion III) (INR in Lakhs)

Response: 0

6.4.2.1 Total Grants received from non-government bodies, individuals, philanthropists year-wise during the last five years (INR in Lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
0.00	0.00	0.00	0.00	0.00

File Description	Document
Details of Funds / Grants received from non-government bodies during the last five years	[View Document](#)
Any additional information	[View Document](#)
Annual statements of accounts	[View Document](#)

6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Response:

RESOURCE MOBILIZATION STRATEGY AND IMPLEMENTATION PLAN

The resources mobilization strategy and implementation plan, seeks to guide towards sustainable financing of its various programs. It reviews college funding patterns, provides guideline and proposes strategies for mobilizing resources to support the college strategic plan and the ultimate fulfillment of its vision and mission.

Different sources of funds :

The one of the source of fund is Tuition fee from students. Fee of students is decided and approved by the Fee Regulating Authority (FRA) as per the norms.

Funding projects from Government & non-government - Faculty members are eligible to submit proposals for conducting workshops, seminars, FDPs, conferences and research projects to AICTE, TNSCST, CSIR, UGC and DST for obtaining funds to enhance the quality of teaching, learning and research. The funds are used for purchase of advanced equipment and conduct research in the specific areas proposed.

Funds/Grants received from non-government bodies and individuals - This includes revenue generated from Testing and consultation, Charges for conducting online/offline examination from outsiders, Sponsorship received from various activities/programs.

Utilization of funds :

Funds available are utilized for salary and other expenses of the institution. Salary expenses include salary paid to teaching & non-teaching staff members and non-salary expenses include purchase and maintenance of equipment, infrastructure maintenance, furniture repair and maintenance, office expenses, printing & stationary and miscellaneous expenses, etc. Adequate remuneration / financial support is provided to the faculty members for attending conference, workshop, seminar and FDP.

Enhancement of library facilities leads to the enhancement of teaching learning practices and accordingly requisite funds are utilized for this.

Adequate funds are utilized for development and maintenance of good infrastructure for the institute. Some funds are allocated for social service activities as a part of its social responsibility. The funds are utilized in accordance with the budgetary provisions with prior approval of the management.

Optimal Utilization of Resources

The Institute has a well-defined procedure to monitor the effective and efficient utilization of available resources for infrastructure development and teaching learning process. The resources are used more efficiently.

Green Atmosphere

Enough care is taken to maintain cleanliness in the campus which coexists with godliness and fund is judiciously utilized. More number of trees are planted in and around the campus to promote green campus. Considerable amount of funds are utilized for making the campus more green.

Waste management

Our college has a strong waste management system. Our college continues to invest in waste management system and sufficient number of workers maintains the college campus and hostels clean. The paper wastes, plastic wastes, food wastes etc. are segregated into biodegradable and non-biodegradable wastes. To protect the environment from the hazardous waste water, the sewage treatment system is in practice. The liquid waste is collected and conveyed to treatment plant safely to ensure that the environment is free from health related hazards.

File Description	Document
Any 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

Response:

- To establish the standards in academics as well as in administration, it is essential to monitor

continuously. To enhance the quality improvements in the academic process and also as a pre-accreditation exercise the Internal Quality Assurance Cell (IQAC) was formed in our institution on 2.6.2017.

- The internal quality assurance mechanisms are framed in accordance with the requirements of National Assessment and Accreditation Council (NAAC)/National Board of Accreditation (NBA). The objective of the cell is to develop a system for conscious, consistent and catalytic improvement in the overall performance of the institution at all levels with the involvement of all stakeholders towards quality enhancement through internalization of quality culture and institutionalization of best practices.
- IQAC regularly conducts the meetings with HoDs & Academic coordinators of the department.
- Academic Calendar includes the schedules such as re-opening date, internal/external examinations, academic audit, guest lectures, value added courses, and industry visit, etc.

Two practices/strategies institutionalized as a result of IQAC initiatives

Strategy 1

VALUE ADDED COURSES

The objective of AAACET is not only to promote the students to obtain degree but also it has the responsibility to prepare the students to become global citizens with self confidence, positive attitude and motivation to face any challenge in their lives. The institution also believes that the number of years spent by the students in the campus has a great impact in their career as this is the period in which they transform into young adulthood from adolescence. Therefore our College keenly engages itself with various promotional activities to help the students to emerge as notable professionals of the society. The College has conducted various value added courses to develop strong personality traits among students. These practices help them immensely in facing the challenges in their career and life. The objective of the value added courses is to enrich technical, communication, interpersonal, self management skills and personality improvement.

Strategy 2

REFORMS IN EXAMINATION SYSTEM

- The college has an Examination Cell for overseeing the conduct of all the internal and end semester examinations. The Examination cell Coordinator is assisted by a team of faculty and staff members.
- Three Internal Assessments test and one model exam in theory subjects and one model examination in case of practical are conducted in each semester.
- Question bank is submitted to the Examination cell in the prescribed format. The academic coordinator/HoD scrutinizes the question bank and sets the question paper. After the verification process, the question paper is generated automatically from the question bank by computer software.
- Question papers are set in line with the requirements of OBE with questions drawn from all levels of Blooms Taxonomy pyramid. The course outcomes and knowledge levels are also included in the question papers of internal assessment examination.
- The final question papers that are generated from the question bank are again verified by academic

coordinator/HoD before printing for internal assessment examinations.

- After the conduction of internal assessment examinations, the answer scripts are evaluated and the attainment of Course Outcomes and Programme Outcomes are computed.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

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

Response:

The main objective of IQAC is to ensure quality assurance of academics and administrative works. It functions for the growth of faculty and students and provides guidelines periodically.

IQAC Quality Assurance Strategies and Processes :

- Arranging training on pedagogy for newly joined faculty and bridge courses for new students.
- Conducting seminars / workshops, conferences and FDPs on emerging technologies for faculty and students.
- Conducting Guest Lectures from Industry/academic Experts.
- Arranging regular training programs, certification courses, value added and add-on courses, vocational courses for students.
- Encouraging R&D and Consultancy.

Academic Audit

Academic Audit is carried out at the end of every academic year to ensure the quality in teaching-learning process.

Structure of Academic Audit

Internal audit is conducted by senior faculty members of other department or from academic experts from other institutions. IQAC facilitates the audit format to the auditing team. Once the IQAC completes academic audit, the report is discussed with respective HoD and one week time frame is given to the respective department to ratify the observation. Upon the ratification, the report is submitted to the IQAC and gives suitable recommendations for improvement.

Documents audited are

- Institute academic calendar in-line with university
- Timetable & Faculty workload
- Minutes of Class committee meetings and department faculty meetings
- Lab master record & manual
- Attendance and assessment record
- Course File and course materials
- Copy of internal question paper with answer key and sample answer papers
- Sample of Assignments, tutorial sheets, etc.
- Remedial classes for weak students
- Project (Mini-project / Final semester project) progress review reports
- Quality of value added courses, certification courses & vocational Courses
- University Result Analysis
- Mentoring system
- Industry visits
- Budget details
- Details of Workshops, Seminars, FDPs, conferences organized
- Student internship/in-plant training details
- Faculty details - Publication & Participation details

Mentoring System for Advanced and Slow Learners

- Mentoring is the process usually face-to-face between the teacher and the students for the transformation of knowledge, social and the psychosocial support to work or develop professional career.
- The Institution allocates 1 period per week explicitly as mentoring hour in the time-table. Apart from this, students can meet the mentor any time.
- The Mentors are allocated with 15 - 20 students during the first semester and continued till the completion of the program.
- Mentors encourage the students to participate in academic, research, co-curricular, extracurricular and social activities.
- Parents are called and students are counseled in their presence if needed.
- Mentors take special interest to help the students at individual level for their holistic development, grow in communication skills, personality development, leadership skills, soft skills, interpersonal skills etc.

Class Committee Meeting

- The feedback received on academic grievances related to coverage of syllabus, understanding level, grievances on the examinations, study materials, need of special or revision classes from the students are analyzed.
- The feedback received on non-academic grievances such as infrastructure, transportation, hostel, food, activities are solved.
- In few cases, solutions are provided directly by the HoD, whereas in other cases, problems are reported to the Principal for further action.
- The non-academic complaints are forwarded to the appropriate authorities by HoD for solutions and respective coordinators follow-up.

- Academic grievances are handled by the subject teacher and HoD.
- The action taken to redress the suggestions expressed in the meeting is recorded in the minutes of meeting.
- This kind of practice helps to improve the teaching-learning process.

IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes :

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

TWO EXAMPLES :

1. **Review of Teaching-Learning Process**

- Every teacher prepares course file before the commencement of next semester. Review committees verify the content and completion of course file and report it to higher authorities.
- Suggestions (if any) are communicated to the respective teacher and its fulfillment is ensured by HoD.
- Teacher feedback is taken to ensure the quality of teaching and teachers are counseled if required.
- Regular reviews for the timely completion of syllabus are taken and accordingly remedial actions are suggested.
- Learning levels of the students are assessed based on their performance in internal examinations and university examination and arranged necessary coaching classes.
- Result analysis of all the internal examination is done. Action plan for improvement of result is submitted to IQAC.

- **Course File & Students Attendance and Assessment Record monitoring**

- **Verification of Students Attendance and Assessment Record for the following :**
    - Attendance Entry
    - Attendance percentage details
    - Syllabus Coverage & deviation details
    - Class and Internal Test & Model exam schedules
    - Class and Internal Test Marks, Assignment, Model exam marks
    - Identification of slow learners and above average performers
    - Content beyond syllabus coverage.
    - Coaching classes details

- o Class arrangement for Leave.
- o HoD Authentication.
- **Verification of Course file for the following :**
  - o Course materials & question bank
  - o Course plan and delivery of syllabus
  - o CO – PO – PSO mapping
  - o Internal/model question papers & answer key
  - o Assessment of internal & model papers
  - o Corrective action taken for Slow learners
  - o Innovative content delivery methods
  - o Assignment & Tutorial Sheets.
  - o Course outcome / Program outcome attainment
  - o University question paper review report
  - o Internal/Model/University marks analysis report

2. Exams monitoring

- Collection of question bank & monitoring the preparation of Question Paper for Internal Exams by academic coordinators.
- Collection of 2 sets of questions for model exam and monitoring the selection of question set.
- Monitoring the Schedule and Timings.
- Documenting squad details, invigilators list, schedule and timetable.
- Verification of Invigilator Availability in the Examination Hall.
- Collecting Absenteeism Report and record actions taken.
- Submission of report to the Principal in the prescribed format.
- Internal / Model / University Result analysis.
- List of failures along with the actions taken.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.5.3 Average number of quality initiatives by IQAC for promoting quality culture per year

Response: 4.2

6.5.3.1 Number of quality initiatives by IQAC for promoting quality year-wise for the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
14	7	0	0	0

File Description	Document
Number of quality initiatives by IQAC per year for promoting quality culture	[View Document](#)
Any additional information	[View Document](#)
IQAC link	[View Document](#)

6.5.4 Quality assurance initiatives of the institution include:

1. **Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements**
2. **Academic Administrative Audit (AAA) and initiation of follow up action**
3. **Participation in NIRF**
4. **ISO Certification**
5. **NBA or any other quality audit**

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: C. Any 2 of the above

File Description	Document
e-copies of the accreditations and certifications	[View Document](#)
Details of Quality assurance initiatives of the institution	[View Document](#)
Any additional information	[View Document](#)
Annual reports of institution	[View Document](#)

6.5.5 Incremental improvements made during the preceding five years *(in case of first cycle)* **Post accreditation quality initiatives** *(second and subsequent cycles)*

Response:

Quality Enhancement Initiatives in administrative domain :

Academic Year	Quality Enhancement Initiatives in administrative domain

2019-2020	• Google Cloud enabled campus • BOSCH Center for Excellence-CAR : MoU signed with BOSCH to train 200 stude every year • Entrepreneurship culture is developed among the students by organizing various motivational and awareness programs under EDP cell. • Institute Innovation Council under MHRD is formed and various technical contests innovative idea presentations and workshops for understanding IPR are conducted.
2018–2019	• Wi-Fi Enabled Campus : Campus wide LAN Internet capacity increased to 50 Mb • German course is offered to students in association with Gothe institute. • Amazon Web Services Centre of Excellence in Cloud Practitioner in association w ICT Academy : To provide opportunities to students garner skills in AWS cloud computing solutions. • Centre for Industry Internet of Things Lab in association with Riyasaa Lab : To enhance and enrich the student knowledge to meet industry needs. • NSS cell has become active and organized many social programs. In assistance wit teachers and students the Institute is working hard towards the development of soci
2017–2018	• 3.73 Crore for infrastructure development. The growth of infrastructure in the last three years has been upward. • e-Yantra Robotics Lab in association with IIT, Mumbai to enhance the knowledge students in robotics.
2016–2017	• 3.42 Crore for infrastructure development
2015-2016	• 3.18 Crore for infrastructure development
2014-2015	• 2.22 Crore for infrastructure development. • Wi-Fi Enabled Campus : Enable remote access to various online learning & administrative resources.

Quality Enhancement Initiatives in academic domain :

Academic Year	Quality Enhancement Initiatives in academic domain
2019-2020	• Department of Science and Humanities received a fund of Rs.20,000/- from Tamilnadu State Council for Science and Technology and organized International Conference on "Application of Mathematics in Science and Technology" on 25th & 26th July 2019. • Department of CSE received a fund of Rs.20,000/- from Tamilnadu State Council for Science and Technology and organized "Statelevel Science and Environmental Awareness Exhibition for School Students" on 26th & 27th J 2019. • Implementation of on-line feedback on each course. • Progressively increasing number of proposals submitted to various funding agencies. • Recruiting Ph.D qualified faculty members with experience, and wisdom to improve the teaching learning process and research and development in a continuous manner. • Promoting Research Culture, more than 25% of faculty members are pursuin their Ph.D in Anna University, Chennai. • The number of publications in peer reviewed journals with good Impact Fact increased.

2018-2019	- Department of CSE received a fund of Rs.40,000/- from Council of Scientific and Industrial Research (CSIR) and organized two day National Seminar on "Deep Learning for Medical Image Analysis – Challenges and Future" on 29 & 30th April 2019. - Incorporate aptitude/soft skills/communication training, programmes in their regular time-table. As a result, students have become effective communicator self–confident and self-reliant as has been reflected in enhanced campus placements for 2015-2019 batch. - Participation of students in co-curricular and extra-curricular activities has improved. - Conduct of technical training programmes through various guest lectures and workshops to enhance the technical skills of the students. - Eminent Professors, academicians and renowned industry personnel visited t institution to enlighten the faculty and students. - All departments possess at least one membership in Professional Society & Student Chapter related to their branch. - Institutional Membership in DELNET. - Introduction of Proctor Diary for students counseling. - Swayam – NPTEL Local Chapter : To encourage more students to participate the courses offered by IITs under the mentorship of the institution faculty. Faculty/Students are utilizing the NPTEL lectures and e-resources. - Yoga and wellness activities are conducted from time-to-time for the physica and mental fitness for both students and staff. - Soft Skill Training and Campus recruitment training is being provided to the students to improve their personality/competency.
2017-2018	- Constitution of IQAC - Implementation of CBCS. - Google LMS & Moodle LMS
2016-2017	ROVAN software introduced for ILMS & E-govergence
2015-2016	Value added courses offered to students
2014-2015	- Mentoring system has been established. - Implementation of Outcome based education (OBE)

File Description	Document
Any additional information	[View Document](#)

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Number of gender equity promotion programs organized by the institution during the last five years

Response: 11

7.1.1.1 Number of gender equity promotion programs organized by the institution year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
4	2	2	2	1

File Description	Document
Report of the event	[View Document](#)
List of gender equity promotion programs organized by the institution	[View Document](#)

7.1.2

1. Institution shows gender sensitivity in providing facilities such as:
   1. Safety and Security
   2. Counselling
   3. Common Room

Response:

The policy guidelines of AAACET in the processes of admission, recruitment and administration maintain the interests of the students, faculty and staff members without any gender differentiation. The institution strives to prepare students to be self-reliant, respectful of different cultures, socially responsible, aware of their social and civic responsibilities, sensitive to gender issues with zero tolerance towards sexual harassment, women safety and security, and environmental consciousness.

A gender friendly classroom environment and its overall management build harmonious relations between boys and girls. Equal participation of boys and girls in teaching learning process and in organizing various events is ensured. The gender balance among the faculty members is maintained with more than 50% of female proportion. The numbers of women in the housekeeping departments are also high. Women are given equal priorities in leadership positions as Head of the Department, Placement officer, Cell Coordinators and others. Every year, there is a celebration of women's day and inspiring women personalities are invited to share their life experiences.A complaint box has been installed on the College premises to ensure redressal of grievances. Lectures on women safety are also being conducted periodically. The following measures are strictly practiced to prevent the occurrence of personal and social

issues especially toward gender sensitivity.

1. **Safety and Security**

In our college, sufficient number of security personnel safe guards the campus and safety and security of the students are ensured. Special attention is given to the girl students those who are staying in the Hostel. During night time, the entire campus is covered with sufficient lighting arrangements. Round the clock in all the days, medical support for all hostel inmates is given by a physician available in our campus.

Separate Transport facilities are provided in case, if emergency conditions arise. CCTV cameras are installed at various points for monitoring purposes. Electricity Power backup is available in the campus. Fire extinguishers are available in our campus to extinguish or control fires under emergency conditions. Grievance Redressal Committee and Women's Empowerment cell are available and provide a convenient platform for our students to represent any issues that may arise.

The entering of vehicles and people are checked at all exit and entry points. Visitor register is maintained in hostels. Wardens and Staff in charges are available 24x7 for in-house security purposes.

2. Counseling

Every faculty is allotted 15-20 students for effective Student personal counseling and mentor system. The main objective is to keep track of the progress of the students and counsel them accordingly for academic and personal developments.

Our counseling system provides support to the girl students and envisages them to realize and resolve their problems. Care is taken to empower the students, to strengthen them towards leadership and self-motivation and to make them confident.

3. Common Rooms

Separate common rooms for boys and girls are provided inside the college campus. For convenience of students, rest rooms are available in every floor. Well-furnished separate hostels for boys and girls are available. Multi Gym facility is available in campus.

File Description	Document
Any additional information	[View Document](#)

7.1.3 Alternate Energy initiatives such as:

1. **Percentage of annual power requirement of the Institution met by the renewable energy sources**

Response: 0

7.1.3.1 Annual power requirement met by the renewable energy sources (in KWH)

7.1.3.2 Total annual power requirement (in KWH)

Response: 228604

File Description	Document
Details of power requirement of the Institution met by renewable energy sources	[View Document](#)

7.1.4 Percentage of annual lighting power requirements met through LED bulbs

Response: 84.29

7.1.4.1 Annual lighting power requirement met through LED bulbs (in KWH)

Response: 48172.00

7.1.4.2 Annual lighting power requirement (in KWH)

Response: 57152.00

File Description	Document
Details of lighting power requirements met through LED bulbs	[View Document](#)
Any additional information	[View Document](#)

7.1.5 Waste Management steps including:
- **Solid waste management**
- **Liquid waste management**
- **E-waste management**

Response:

Solid waste management:

Our college has a strong waste management system. Our college continues to invest in waste management system and sufficient number of workers maintains the college campus and hostels clean. The paper wastes, plastic wastes, food wastes etc. are segregated into biodegradable and non-biodegradable wastes. Biodegradable wastes from canteen, kitchen and other places are collected in dustbins and segregated. The recyclable wastes such as examination papers are collected and periodically supplied to the local recycling vendors to avoid wastage dumping. One sided papers are re-used by the faculty members for rough work. Non-biodegradable waste such as metals and other scraps are comparatively less in our campus. Mostly they are repaired and serviced for re-use.

Liquid waste management:

To protect the environment from the hazardous waste water, the sewage treatment system is in practice. The liquid waste is collected and conveyed to treatment plant safely to ensure that the environment is free from health related hazards. The treatment plant has a treatment capacity of about 20,000 litres/day. Sewage Treatment plant is provided for treating all waste water generated due to domestic activities in the college campus and also in hostel. This facility is installed not only in compliancewith the legal requirement of Pollution control board, but also to ensure that the treated water is utilized for gardening and flushing activities. The treatment Process / system is designed on the principle of Activated Sludge process with Ultra filtration which ensures the aerobic decomposition of organic matter in presence of active microbial growth in the aeration tank.

The waste water from our hostels, canteen and various places of college is collected and treated in the treatment plant. The treated waste water is transferred all around the campus for maintaining its green cover of plants and trees through separate pipelines and also to flush toilets. Sludge is also used as manure for plants in the campus. The sewage treatment plant is continuously run 24 hours a day and all through the year except vacation holidays.

RO Treatment Plant:

- The Reverse Osmosis Plant installed in the college campus caters to the drinking water needs of all the students, faculty, supporting staff and the visitors. The raw water with an average Total Dissolved Solids [TDS] of 750-1000 ppm is treated to reduce the TDS content to less than 100 ppm, the generally acceptable upper limit of the TDS.

E-waste management:

- Since we are newly established college, e-wastes are not yet generated. Almost all computers, printers and electronic devices are in working conditions and no damages are generated. If e-wastes are generated in the future, it is planned to sell them to e-waste recycling company.
- The toners in the printers are refilled rather than throwing it out after it gets over.
- The UPS batteries are normally exchanged for new batteries. The suppliers themselves take the used batteries and replaced with new ones.

File Description	Document
Any additional information	[View Document](#)

7.1.6 Rain water harvesting structures and utilization in the campus

Response:

Water is an integral part of land/soil productivity. Its misuse can cause both degradation and erosion of soils. Management of water resource in our institution is considered to be necessary for well-being of students as well as to maintain the greeneries in and around the campus.

There is a gap between the seasonal availability of water and its equitable supply throughout the year.

Accordingly, the storage of water and passage through soils is very important. Water harvesting technologies of our institution have established the economic and practical feasibility for inclusion in integrated water management plans in our campus. Our campus has revealed that these are desirable for protection of land, planting of trees, restoration of degraded land, and potential reuse of water.

Sivakasi is a dry land and it receives the rain under the influence of both south west and north east monsoons. The north east monsoon chiefly contributes to the rainfall in Sivakasi. The southwest monsoon rainfall is highly erratic and summer rains are negligible. The normal annual rainfall over the district varies from about 724 to 913 mm. Sivakasi enjoys a subtropical climate. The period from April to June is generally hot and dry. The weather is pleasant during the period from November to January. The period from April to June is generally hot and dry. The annual mean minimum and maximum temperatures are 23.78 and 33.95° C respectively. The daytime heat is oppressive and the temperature is as high as 40.2° C.

 Amendments made to Section 215 (a) of the Tamil Nadu District Municipalities Act, 1920 and Building Rules 1973, have made it mandatory to provide Rain Water Harvesting structures in all new buildings. Our Institution follows the act in constructing and maintaining Rain Water Harvesting Structure in the campus.

Rain water is collected and stored in constructed tank abutting in college compound. Rain water from building roof is fully collected in pipe and routed to the tank. Excess runoff water from ground and garden is also discharged to the tank. This helps to recharge the ground water table. By implementing this rain water harvesting system, the scarcity of water is mitigated to a greater extend in hot summer season. This results in elevated rate of ground water recharge in the campus and sufficient water is made available during the summer. Our institution is fully covered with green trees and plantations. In our institution, water is very judiciously used for plantation purposes. Water is partially used for gardening and the remaining water is used for ground water level improvement.

Benefits to our institution

1. Rainwater harvesting helps in recharging the soil.

2. It enhances the groundwater quality by dilution.

3. It increases the moisture content of the soil.

4. It minimizes the runoff water and also reduces the soil erosion.

File Description	Document
Any additional information	[View Document](#)

7.1.7 Green Practices
- **Students, staff using**
a) **Bicycles**
b) **Public Transport**
c) **Pedestrian friendly roads**

- **Plastic-free campus**
- **Paperless office**
- **Green landscaping with trees and plants**

Response:

AAA College of Engineering and Technology shows keen interest in maintaining an eco-friendly campus. The green practices followed in the institution include

- **Students, Staff using Public Transport -** The Institution provides transport facilities for the students as well as faculty members. College buses are available in almost all local surroundings covering 70 km in and around the Institution. Public transport facilities are also available. Majority of the faculty and students are using any one of the above facilities. Hence usage of individual bike and car for transport is avoided and we are not polluting the environment unnecessarily.

- **Pedestrian friendly roads -** For the well being of students, paved road along with raised footpath is provided in the campus. The foot path is laid apart from the road to ensure safety. The department classrooms are in the same building. Hence it enables the students and faculty to move easily from one place to another place in time by walking itself which avoids driving around campus.

- **Usage of plastics is restricted.** Awareness of the Plastic hazards is created in the minds of students through various programmes. Use of single use plastics is strictly prohibited.

- **Paperless office** – Paper Waste are collected periodically and stored in separate place. They are disposed to vendors for possible re-use. Communication to faculty and students to the maximum is done through mails and electronic media. Printing is done on two sides.

- **Green landscaping with trees and plants**

Planting trees on a regular basis - We trust that fresh air brings energetic minds and peaceful environment. Hence trees are planted on a regular basis and maintained with care.

Our campus is Smoking free campus

Maintenance of green environment within the campus - Our Institution maintains a clean and green environment within the campus with a maintenance team of skilled gardeners and faculty. This maintenance team takes care of the up keeping of the environment and ensures to keep the surroundings clean. Rainwater Harvesting facility is available in the campus. Over the last five years, an amount of about Rs.16 lakhs had been spent towards green initiatives and waste management excluding salary component of the employees.

Not getting involved in any environmentally harmful practices

Green Computing - Around 40-50% of the systems work under thin client computing which consumes less energy. In this way, green computing features are incorporated.

Green building practices – The building is constructed with increased wall thickness of 450 mm dimension. This allows the temperature inside the building to drop by 2 to 3 degree Celsius during summer. During winter, it will be warm. Energy efficient windows are used which maximize the natural

light entering rooms. This saves the lighting requirements and keeps the building warm in colder months. Rainwater harvesting exists which makes use of the rainfall for water saving. Unnecessary Air Conditioner (AC) usage is avoided.

File Description	Document
Any additional information	[View Document](#)

7.1.8 Average percentage expenditure on green initiatives and waste management excluding salary component during the last five years

Response: 1.05

7.1.8.1 Total expenditure on green initiatives and waste management excluding salary component year-wise during the last five years(INR in Lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
10.56658	1.60360	1.7529	1.025	1.0465

File Description	Document
Green audit report	[View Document](#)
Details of expenditure on green initiatives and waste management during the last five years	[View Document](#)
Any additional information	[View Document](#)

7.1.9 Differently abled (Divyangjan) Friendliness Resources available in the institution:

1. **Physical facilities**
2. **Provision for lift**
3. **Ramp / Rails**
4. **Braille Software/facilities**
5. **Rest Rooms**
6. **Scribes for examination**
7. **Special skill development for differently abled students**
8. **Any other similar facility (Specify)**

A. 7 and more of the above

B. At least 6 of the above

C. At least 4 of the above

D. At least 2 of the above

Response: B. At least 6 of the above

File Description	Document
Resources available in the institution for Divyangjan	
Any additional information	
link to photos and videos of facilities for Divyangjan	

7.1.10 Number of Specific initiatives to address locational advantages and disadvantages during the last five years

Response: 20

7.1.10.1 Number of specific initiatives to address locational advantages and disadvantages year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
11	3	3	2	1

File Description	Document
Number of Specific initiatives to address locational advantages and disadvantages	
Any additional information	

7.1.11 Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)

Response: 20

7.1.11.1 Number of initiatives taken to engage with and contribute to local community year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
6	4	3	5	2

File Description	Document
Report of the event	View Document

7.1.12
Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff

Response: Yes

File Description	Document
URL to Handbook on code of conduct for students and teachers , manuals and brochures on human values and professional ethics	View Document

7.1.13 Display of core values in the institution and on its website

Response: Yes

File Description	Document
Any additional information	View Document
Provide URL of website that displays core values	View Document

7.1.14 The institution plans and organizes appropriate activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens and other constitutional obligations

Response: Yes

File Description	Document
Details of activities organized to increase consciousness about national identities and symbols	View Document
Any additional information	View Document

7.1.15 The institution offers a course on Human Values and professional ethics

Response: Yes

File Description	Document
Any additional information	View Document
Provide link to Courses on Human Values and professional ethics on Institutional website	View Document

7.1.16 The institution functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different professions

Response: Yes

File Description	Document
Provide URL of supporting documents to prove institution functions as per professional code	[View Document](#)

7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years

Response: 15

7.1.17.1 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
4	3	3	3	2

File Description	Document
List of activities conducted for promotion of universal values	[View Document](#)
Any additional information	[View Document](#)

7.1.18 Institution organizes national festivals and birth / death anniversaries of the great Indian personalities

Response:

Our students are on mission towards achieving better India. Irrespective of caste, religion and creed, they realize their social responsibilities towards sustainable growth. The institution celebrates Days of National Importance like Independence Day, Republic day, Teacher's day and Engineer's day. Death and Birth anniversaries of great personalities are celebrated meaningfully.

Teacher's Day Celebration: The contributions of Dr. S. Radhakrishnan are recollected on Teachers day which is celebrated on September 5th. Teaching is a noble profession that shapes the character, caliber and future of students and is recognized in the Teacher's day celebrations of our College.

Engineer's Day Celebration: As a tribute to the great Indian Engineer, Bharat Ratna Dr.Mokshagundam Visvesvaraya, we celebrate Engineer's day in our College on September 15th to recognize the achievements of Engineers.

Gandhi Jeyanthi Celebration: Gandhi Jeyanthi is being celebrated in our College to mark the birth anniversary of Mohandas Gandhi on October 2nd. Various events are conducted to insist Gandhian principles of Peace, Truth and non-violence in the young minds of students. **Innovation Day Celebration:** Dr.A.P.J.Abudul Kalam said "Innovation is born out of cultural excellence" and Innovation Day is celebrated on 15th October to mark his birth anniversary.

We also celebrate birth anniversaries of National leaders to remember, respect and recognize their patriotism and sacrifice for the nation.

Independence Day and Republic Day celebration: Every year, we celebrate Independence day and Republic day functions with great enthusiasm and patriotism. Our Management, Principal, few faculty members and few students will give patriotic talk to pay tribute to the national leaders and to inculcate patriotism and social responsibility among the young minds. Cultural activities will also be conducted remarking the sacrifice of national leaders.

Festivals are an expressive way to celebrate glorious heritage, culture and traditions and we regularly celebrate the following festivals.

Vinayaka Chathurthi: Lord Vinayaka's birthday is celebrated in our College by decorating the Ganesha Statue in our college temple and performing Pooja. Sundal and Modhagam are distributed to all the students, faculty and staff of the College.

Ayudha Pooja is celebrated in our College. On this special day, all the laboratories, workshops, buses and office are decorated. Pooja is done in all the departments and office and sweets are distributed to all the faculty, students and staff.

Diwali: The festival of lights is celebrated in our College which represents the symbolic victory of light over darkness, knowledge over ignorance and good over evil. Sweets are distributed to the faculty and staff. Students express their joy and happiness by wishing every one.

Christmas: The Christmas celebrations take place in our college campus. On Christmas day, Christmas cake is cut and distributed to all. Special prayers are offered.

Ramzan is celebrated in our College campus. The Muslim students undergo fasting in the campus.

Pongal: Pongal, also called 'Harvest Festival' is a tribute to farmers, nature, cows and crops. Pongal, **is** celebrated in our campus with enthusiasm. Pongal is prepared and distributed to all.

File Description	Document
Any additional information	[View Document](#)

7.1.19 The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions

Response:

Absolute transparency in the financial, academic, administrative and auxiliary functions is maintained by the institution.

Transparency in Financial activities

Requirement for Budget allocation for every year is done by the respective Department Head. Principal will approve the budget requirement. The Management will allot the funds to meet the requirements by departments. Students can pay their fees through both electronic and manual fee payment modes. The accounts section of the college in office maintains all the account transactions, statements and also the related balance sheets. Regular audit at frequent intervals is done by the auditors and eminent Chartered Accountants.

The college follows the centralized admission policy laid out by the Anna University. Fee structures are open and transparent. They are available in detail to all students and parents. Salaries of all employees are deposited in bank accounts to maintain clarity.

Transparency in Administrative and auxiliary functions

Both Internal and external and academic audits are conducted every semester to maintain transparency in academy. The Principal in consultation with Internal Quality Assurance Committee (IQAC) ensures the effective functioning of the academic and administrative activities in the College.

Regular faculty meetings are conducted by the Principal to discuss the academic activities, monitoring, finance affairs, future plans and developments. HoDs' meetings are also conducted. In all these meetings, future plans are formulated, discussed, and after implementation, progress is reviewed and evaluated.

Two representatives of the teaching faculty are members of the Governing Council. The decisions taken in the Governing Council meetings are circulated to all the faculties through electronic mails. Teaching and Non-Teaching Faculty appointments are done as per the AICTE norms.

Transparency in Academic activiites

The Head of the Department will carry out subject allocation to the faculty based on the choices, they apt, at the beginning of every semester. Three internal assessment tests and one model examination are conducted per semester to evaluate the students' learning status. The scripts are evaluated at the stipulated time and the marks are uploaded in the College Management Software Rovan. All the students and faculty database are entered in the software. Through this software, Students progress sheets are sent to the parents after each test. The attendance and marks of students are provided to them with a provision of rectifying any justified mistake that they appeal for. Students' absenteeism for the class is intimated to the parents through SMS alerts.

Result analysis of Assessments, Model Exam and University Exam is done through this software.

Students' feedback on all the subjects are also collected after every semester and evaluated to improve the teaching skills of faculty members. The co-curricular programmes are organized by faculty and student coordinators of different forums of the institution with the guidance of the Principal. Academic calendar is designed before the commencement of semester by the administrative with the help of all HODs and Principal and circulated to all the faculties.

Through these practices, the institution has been able to communicate freely and openly with all its stakeholders without any malice.

7.2 Best Practices

7.2.1 Describe at least two institutional best practices (as per NAAC Format)

Response:

Institutional Best Practice 1:

Title of the Practice: Professional Skill Development

Objective of the Practice:

The development of professional skills during the course of engineering studies has become one of the essential requirements. One of the core outcomes of the engineering programme is to transform a student into a skilled professional. A plethora of skill development programmes offered in the campus combined with amenities provide a perfect ambience for the student to excel in the chosen field of Engineering and Technology.

The objective is to continuously and actively engage the student by offering skill development programmes. Through participation in these activities, students enrich their technical, communication, inter and intrapersonal skills to result in their overall personality improvement.

The Context:

The institution plans several professional skill development programmes in tandem with the academics and provides the schedule to the students in advance. Certain components of the professional skill development programmes have been made mandatory to our students. The College conducts various professional activities and programmes through the Department Associations, Professional Chapters, Placement and Training Cell and technology centers which include Entrepreneurship Development Cell, Institution's Innovation Council (IIC), Computer Society of India (CSI), Federation of All Civil Engineer Associations (FACEAT), The Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHARE), NSS and Rotaract Clubs. Students are given the responsibility to organize events conducted by association and the institution. These activities enrich our students to develop strong personality traits.

The Practice:

The activities of different cells, clubs and associations of the College focus on improving a variety of skills

set of students.

- Technical skills are imparted through regular conduct of workshops and Certification courses on recent technology with the aid of faculty expertise, industry experts and laboratory facilities. Courses are conducted on the topics of Staad Pro Software, AUTOCAD Software, Machine Learning using Python, Big Data for Cloud Applications, MATLAB for Electrical Engineering, Industrial Automation Using PLC and SCADA, Modern Communication Tools and Techniques Using Advanced Design System, PHP with MYSQL for Web Development, Electronic Circuit Simulation using PSPICE and PSIM, AWS etc.,
- The value added courses are conducted on topics of Soft Skills, Aptitude Training, Personality Development, Soft Skills, Placement Skills, Public Speaking, Innovation and Entrepreneurship, Interpersonal Skills, Intellectual Property Rights,Communication Skills Development etc., The pre-final year and final year students also participate in organizing placement drives.
- The active participation of students in organizing symposiums and events at department and institutional level, Industrial Visit etc., develop their leadership traits.
- The programmes are being conducted during the extra hours beyond regular academic schedule and also during summer and winter vacation.
- The external and internal faculty experts are identified and are utilized as resource persons for the skill development programmes. Other internal faculty members are also trained to handle the sessions.
- The course modules and schedule are framed before the commencement of the programme by the Coordinator along with the team offering the program
- The feedback on these skill development programmes is regularly assessed and the course modules are redefined whenever required.

A statistical summary of the programmes offered for Professional skill development given.

	NO. OF PROGRAMMES CONDUCTED				
	2018 – 2019	2017 – 2018	2016 – 2017	2015 – 2016	2014– 2015
TOTAL	42	40	40	28	14

Evidence of Success:

- Students gain core competencies such as technical skills, learning skills, communication skills, team building skills, problem solving skills and leadership skills.
- The College encourages the students to actively participate in competitions, symposiums etc., in the Intra and Inter-College level and honor the prize winners during annual day ceremony.
- Personality development of the students with improved skills and knowledge.

Students' Voices

M. Gopi Krishnan, IV year Mechanical Department

I am a member of ISHRAE Students Chapter. The workshops and other events conducted through ISHRAE chapter are very useful to improve my knowledge in academics and non-academics. I learnt more about air conditioning system. I am proud to be a member of ISHRAE member, AAACET.

R. Gayathri, IV year ECE

The participation in the Innovation day activities was so exciting. It helped me to learn how to organize an event successfully. Also it motivated me to bring out my innovative concepts and ideas and to exhibit to my peers and faculty. I gained confidence to participate and win in Inter-College competitions.

N. Janani, III year CSE

The workshop organized by CSI chapter was really excellent and very useful in gaining practical skills on Graphics Designing and Multimedia.

R. Saranya, IV year ECE

The soft skill training offered helped me to overcome my shyness and stage fear. It boosted my confidence level. It will help me to secure campus placement in reputed company.

Problems Encountered and Resources Required:

- Educating the rural students with poor communication skills

Institutional Best Practice 2:

Title of the Practice: Mentor System for the students

Under graduate engineering programme students frequently require guidance and counseling from their faculties to refresh their intellect. Each faculty plays the role of mentor for a group of 10 to 20 students. Mentors for first year students are from the department of Science & humanities and II, III- and IV-year students have their mentors from the respective departments. Department faculty members take care of the students until they graduate from college.

Objective of the Practice:

The objective of the practice is

- To motivate the students to excel in academic performance and to counsel the students on their problems.
- To provide emotional support to the students personally.
- To serve as the link between student, parent and Institute.
- To identify slow learners, identify their problems, giving counseling to them to improve their performance and to encourage the advanced learners.
- To monitor students' discipline.

The Context: The practices where the more experienced persons provide motivation, guidance and support to the less experienced person is called mentoring. Mentors interact with students who are poor in academic and with their parents. The corrective and preventive actions are implemented for their improvement. Each mentor maintains and updates the Proctor diary and Student Portfolio, which is examined by the HOD. Effective mentoring improves the confidence level of the students and a sense of belongingness to the institution. It makes them realize their responsibilities and commitments to the parents

and society.

The Practice:

The mentor carries out the following activities and is always prepared to take care of the students at all times.

- Maintains and updates the Proctor diary and Student Portfolio which records the detailed progress of the student. The Proctor diary is examined by the HOD periodically.
- Conduct periodic meetings with their wards and constantly monitors, encourages and motivates the students in all academic activities.
- Advise the students regarding the choice of their electives, projects to be done, internships, in-plant training etc. and for their career development/professional enhancement.

- Keep in touch with parents/guardians and inform them of their wards' academic progress and any irregularity.

- Intimate Head of the Department and suggest for administrative action whenever required.

- Keep contact with the students even after their graduation.

7.2.1.5 Evidence of Success:

1. The mentor interacts and keeps in contact with the students always so that any problem faced by them related to studies, health, personal and family is taken care of and easily solved.
2. Through proper counseling and motivation, students are made to attend the classes regularly which improve their attendance.
3. Students with arrears in university examinations are counseled and motivated to improve their performance. They are guided to meet the concerned faculty member who provides necessary academic input to enable them clear the arrear examination.
4. Parents are regularly informed of their wards' test performance and any irregularity in attendance. This provides satisfaction to them and also improves the students' performance.
5. Students continue to keep in contact with the mentor after graduation to seek advices on higher education, job prospects and personal issues.
6. Students who got university ranks are motivated and scholarships are given to them.

Case Studies of 4 students

1. K.Kasthuri, III year EEE had 5 arrears in even semester 2018-2019. Through motivation and guidance, she was able to clear 4 arrears.
2. R.Paulmani, IV year ECE had 9 arrears in even semester 2018-2019. Through proper guidance and counseling, she was able to clear 7 arrear papers
3. N.Janani, III year CSE had 7 arrears in even semester 2018-2019. After counseling and follow up, she was able to clear 1 arrear paper and all the current semester papers.
4. R.Saran, IV year CSE has 16 arrears in even semester 2018-2019. After personal counseling, in the next semester she cleared 5 arrear papers and all current semester papers

Problems Encountered and Resources Required:

- No problems encountered.

File Description	Document
Any additional information	[View Document](#)

7.3 Institutional Distinctiveness

7.3.1 Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust

Response:

State of art infrastructure with a focus on establishing emerging technology labs for the benefit of student community

AAACET was established in the year 2013 and spawns over 44 acres of land with built-up area of 32,861 sq.mts. The college has state of the art infrastructure, creating a very good learning environment that motivates the students for progressive learning and development. The institution is well equipped with spacious class rooms, tutorial halls, laboratories, faculty rooms and air-conditioned seminar halls, conference halls, auditoriums to cater the students needs. The class rooms and seminar halls are well equipped with Wi-Fi facilities and LCD projectors.

The institution has signed MOU's with various reputed industries/organizations to improve the students skills sets and in getting internships, field projects and finally placements. Institute also has various professional centers such as E-Yantra (IIT-B) Lab, Centre for IOT, Bosch Centre for CAR, AWS Cloud Computing and Project Management Centres. The training activities conducted in these centers enable the students to get exposed in the latest technology and meet industrial requirements. A summary of the infrastructure available in the areas of emerging technology is provided below.

E-Yantra

E-Yantra is an initiative by IIT Bombay that aims to create the next generation of embedded and robotic systems engineers with a practical outlook to help provide practical solutions to some of the real world problems. E-Yantra in AAACET was established in the year of 2016. Oue faculty has won prizes in the All India level competition held by IIT Mumbai.

Students from the circuit branches of our institution are given fundamentals on microcontroller, sensors and actuators and robotics. Programming knowledge on embedded C is also imparted as part of the training.

Objectives:

1. To create awareness and to provide certification courses for students in the field of embedded systems and robotics technology.
2. To encourage the students to participate in national and international robotics Competitions.

3. To provide encouragement to the students to come up with new ideas and also to get exposed to the current technologies in the field of Robotics to make them industry ready and increasing their employability.

The E-Yantra instructors are formed as multidisciplinary team comprising of faculty members from ECE, EEE and CSE disciplines.

Centre for IIOT

The Internet of Things (IOT) has become increasingly more pervasive in the context of industry as digitization has priority for many organizations. Industrial IOT (IIOT) laboratory in AAACET was established in the year 2018 with a vision of evolving into a Centre of Excellence on IIOT by the year 2021.

IIOT Centre has 35 sets of Arduino Kits and 25 types of sensors. The customized kits were designed by Riyassa Lab for easy understanding.

Objectives:

1. To enable students understand and design industrial devices and systems using IOT.
2. To enhance the students employability and to create entrepreneurs exploiting IoT technology.

Though IOT is not part of curriculum, regular workshops and programmes are conducted for our students. Few of our faculty members in Centre for IIOT are serving as resource persons in establishing the ATAL labs in schools nearby. More than 600 students were benefitted by the various programmes conducted by our college.

BOSCH Centre for Excellence - CAR

AAACET established the Center for Excellence - CAR with an aim to develop effective and efficient training programs and seminars in close cooperation with Robert Bosch GmbH. Currently, the centre offers BOSCH certified training programs on Air-conditioning and Tyre management systems.

The Bosch Center for CAR has been established with latest equipments and constructed to the requirement of BOSCH and was certified as one of the recognized training centers. The auto industry recognized BOSCH certification is provided to successful candidates after completion of the training.

Objectives:

1. To impart Industry oriented training to the students in the field of automotive technology with efficient combination of Hardware, Teach ware and Courseware.
2. To organize certification programmes on Tyre Changer & Wheel Balancer, A/C Fluid Exchange.

AWS Cloud Computing

Cloud computing is the emerging technology and AWS is a comprehensive, easy to use computing platform offered by Amazon. Amazon web service (AWS) is a platform that offers flexible, reliable, scalable, easy-to-use and cost-effective.

Sensing the wide opportunity available in cloud computing and AWS, AAACET has entered into an agreement with AWS through ICT academy during December 2018. Currently the modules on Introduction to cloud computing, Core services, Cloud Security, Architecting, Cloud Economics, Billing and Support are offered to students through AWS certified faculty. The AWS provides cloud resources a highly subsidized cost to our students.

Objectives:

1. To enhance skills and knowledge in the cloud computing platform.
2. To offer recognized industry AWS certification courses which are reliable and well designed.

Project Management Laboratory - Oracle Primavera

AAA College of Engineering and Technology established a professional laboratory on Oracle Primavera, a project management system in the year 2018 in association with Infinity PMC P.Ltd.

Objectives:

1. To provide hands-on training to the students in the software Oracle Primavera and to make them the best Project Management Solution providers of the society.
2. To conduct workshops and offer certification courses in Oracle Primavera.

The Primavera lab has become a part of oracle workforce development and students who completed the training programme successfully receive the industry recognized certification.

Outcomes of various professional centers:

College has strategic plans in sucessfully implementing various courses and training programs conducted through its professional centers. the outcomes of these centers are:

- The practical knowledge of the students is enhanced and it helps to gain in-depth technical knowledge.
- The problem solving skills of the students is enhanced.
- An opportunity is provided for the students to become entrepreneurs.

Evidence of Success:

- Our College Joint Secretary Dr. K.Vignesh Kumar received IBJ Business Excellence Award for Best Upcoming Institute from Honorable Tamilnadu Governor Konijeti Rosaiah for creating an excellent education infrastructure.
- There is an increase in the number of students placed in the last 2 years. Few students have become entrepreneurs. It supports our "Skill India" and "Make in India" initiatives.

File Description	Document
Any additional information	[View Document](#)

5. CONCLUSION

Additional Information :

The motto of our institution is **A**spire, **A**ttain and **A**chieve. The institute is committed to provide quality technical and professional education to transform students into successful entrepreneurs and dynamic leaders with moral values.

Students are given with rigorous practical training in laboratories and workshops, co-curricular activities and personal attention to student counseling.

AAACET has received best infrastructure award from the honorable Governor of Tamilnadu.Professional Centers such as Center of Excellence in IIOT, E-YANTRA Robotics laboratory in association with IIT Mumbai and BOSCH training center is also established in the Institute to make the students employable in reputed companies. It is also a professional partner of AMAZON WEB SERVICES.The Institute has organized national level workshops and International level conferences.

Institute motivate all faculty members, to register for their Ph.D

Remedial classes are conducted for the students to improve the performance of students in all subjects. These classes are conducted for students having poor performance i.e. for slow learners. During remedial classes subject content are again taught with more simplification and related difficulties are solved.

Advanced teaching-learning tools and innovative teaching methodologies are used for content delivery of syllabus.

Special training on GATE examination and other competitive exams, teaching them the advanced technological trends in the industry and giving opportunity for doing research, presenting and publishing Research Papers in conferences and Journals.

Placement related training for the students starts from the very beginning of the first semester. Soft-skills and communication skills are included in the regular time-table to train the students.

Industry persons are called for delivering guest lectures. Content delivery of syllabus is blended with NPTEL, Moodle platform and Google Classrooms etc.

The institute believes in practicing **decentralization** and involves stakeholder's representatives in **decision making.**

Transparency is practiced in critical, crucial details related to finance, academics and administration.

A number of best practices have been explored and implemented and have been found to have a positive impact upon the all-round performance of students and the Institute.

Concluding Remarks :

AAACET has well-framed vision and mission, considering the needs of the society. Best academics, state-of-the-art-infrastructure, well equiped laboratories, industry-interaction, self-learning, co-curricular and extracurricular activities are some of the special features which cater to the comprehensive development of the students as growing institution with three batches of passed out students. The governance comprises Governing Body, Academic Council, Internal Quality Assurance Cell, and various Institute level cell/committees which play a significant role in the evolutionary reforms towards positioning the Institute in preferred list of all stakeholders.

The Institute believes in promoting a culture of 'delegation of powers' through strategic policies. The Principal is assisted by HODs, Dean, and Coordinators of various committees in decision making process to ensure smooth functioning of administrative and academic processes with better planning and monitoring leading to better organizational growth. The Institute regularly provides necessary training to faculty members for the successful implementation of quality teaching-learning process.

With this report we become competent to critically look at our strengths, weaknesses, opportunities and challenges we face. We are grateful to NAAC for providing this opportunity for self-assessment. Further the exercise of mobilizing our faculty members and staff in the data collection process including the documentary evidences wherever required has resulted in utmost accuracy. This will help us to improve further to benefit all our stakeholders, namely students, alumni, faculty, staff, academia, industries, society and the nation at large.

We shall not be complacent with our achievements. We will continuously fine-tune all the existing systems and processes by bench-marking our Institute continuously with the best in the world to achieve high quality output benefitting all our stakeholders. We will tirelessly work towards creating a system of higher education which will inculcate in the students the values of discipline, cooperation, equality, patriotism, professionalism, social responsibility and respect for people and principles.

We look forward to the visit of team of experts from NAAC not only to showcase our excellent ideas but also to seek suggestions and advices for making further improvements.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification
1.1.3	Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years 1.1.3.1. Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year-wise during the last five years Answer before DVV Verification: <table><tr><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td><td>2014-15</td></tr><tr><td>6</td><td>4</td><td>1</td><td>0</td><td>0</td></tr></table> Answer After DVV Verification : <table><tr><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td><td>2014-15</td></tr><tr><td>2</td><td>3</td><td>1</td><td>0</td><td>0</td></tr></table>
1.3.2	Number of value added courses imparting transferable and life skills offered during the last five years 1.3.2.1. Number of value-added courses imparting transferable and life skills offered during the last five years Answer before DVV Verification : 71 Answer after DVV Verification: 16
1.4.2	Feedback processes of the institution may be classified as follows: Answer before DVV Verification : A. Feedback collected, analysed and action taken and feedback available on website Answer After DVV Verification: B. Feedback collected, analysed and action has been taken
2.3.2	Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. 2.3.2.1. Number of teachers using ICT Answer before DVV Verification : 71 Answer after DVV Verification: 60 Remark : Revised based on the sanctioned seats of full time teachers
2.4.4	Percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years 2.4.4.1. Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year-wise during the last five years Answer before DVV Verification: <table><tr><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td><td>2014-15</td></tr></table>

13	6	3	1	2

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

3.3.4	Number of books and chapters in edited volumes/books published and papers in national/international conference proceedings per teacher during the last five years

3.3.4.1. Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
26	16	11	6	3

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
0	3	1	0	1

Remark : Revised according to the given e-copies of the books, chapters and papers published along with ISBN number only in national /international conference-proceedings.

3.4.2	Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years

3.4.2.1. Total number of awards and recognition received for extension activities from Government /recognised bodies year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
10	8	3	1	5

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
2	0	0	0	1

3.4.4	Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years

3.4.4.1. Total number of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids

Awareness, Gender Issue, etc. year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
531	584	543	468	416

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
0	584	543	468	416

Remark : error in the link

3.5.1	Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc during the last five years 3.5.1.1. Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc year-wise during the last five years Answer before DVV Verification: 	2018-19	2017-18	2016-17	2015-16	2014-15
125	145	9	1	0 | Answer After DVV Verification : | 2018-19	2017-18	2016-17	2015-16	2014-15
51	59	7	1	0 | Remark : Revised on the basis of excluding duplication of linkages in the same period and same collaboration
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4.2.5	Availability of remote access to e-resources of the library Answer before DVV Verification : Yes Answer After DVV Verification: No
4.2.6	Percentage per day usage of library by teachers and students 4.2.6.1. Average number of teachers and students using library per day over last one year Answer before DVV Verification : 305 Answer after DVV Verification: 73 Remark : Revised as per HEI clarification
5.1.1	Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years 5.1.1.1. Number of students benefited by scholarships and freeships provided by the Government

year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
334	404	401	295	177

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

Remark : Irrelevant attachment

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

2018-19	2017-18	2016-17	2015-16	2014-15
9	4	9	1	7

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
9	4	7	1	2

| 6.2.3 | Implementation of e-governance in areas of operation

1. Planning and Development
2. Administration
3. Finance and Accounts
4. Student Admission and Support
5. Examination

Answer before DVV Verification : A. All 5 of the above
Answer After DVV Verification: A. All 5 of the above

| 6.4.2 | Funds / Grants received from non-government bodies, individuals, Philanthropists during the last five years (not covered in Criterion III) (INR in Lakhs)

6.4.2.1. Total Grants received from non-government bodies, individuals, philanthropists year-wise during the last five years (INR in Lakhs)

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15

6.189	8.4	1.95	3.05	0.685

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
0.00	0.00	0.00	0.00	0.00

Remark : Scholarships of students not considered here (already in Metric 5.1.2)

6.5.3	Average number of quality initiatives by IQAC for promoting quality culture per year

6.5.3.1. Number of quality initiatives by IQAC for promoting quality year-wise for the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
58	52	0	0	0

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
14	7	0	0	0

6.5.4	Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements

2. Academic Administrative Audit (AAA) and initiation of follow up action

3. Participation in NIRF

4. ISO Certification

5. NBA or any other quality audit

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

7.1.9	Differently abled (Divyangjan) Friendliness Resources available in the institution:

1. Physical facilities
2. Provision for lift
3. Ramp / Rails
4. Braille Software/facilities

	5. Rest Rooms
	6. Scribes for examination
	7. Special skill development for differently abled students
	8. Any other similar facility (Specify)

	Answer before DVV Verification : A. 7 and more of the above
	Answer After DVV Verification: B. At least 6 of the above
7.1.14	The institution plans and organizes appropriate activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens and other constitutional obligations
	Answer before DVV Verification : Yes
	Answer After DVV Verification: Yes

2.Extended Profile Deviations

ID	Extended Questions
1.1	Number of full time teachers year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
74	82	87	65	47

Answer After DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
66	80	80	60	40

1.2	Number of sanctioned posts year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
60	80	80	60	40

Answer After DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
74	80	80	60	40