



SELF STUDY REPORT

FOR

2nd CYCLE OF ACCREDITATION

PAAVAI ENGINEERING COLLEGE

NH-44(FORMERLY NH-7),PACHAL

637018

<http://pec.paavai.edu.in>

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

September 2021

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

The dream of our Chairman, Shri.CA.N.V.Natarajan, has become a reality through the establishment of Paavai Varam Educational Trust in the year 1997. It aims at providing quality education to the underprivileged younger generation especially from rural and remote regions in and around Rasipuram, a small South Indian town, a place known for its historical importance of traditional and commercial commodities, such as pure ghee, sago and silk in Tamil Nadu.

To realize vision of the Institution, the focus is on either past or futuristic action. While, Paavai Engineering College takes immense pleasure in building on the legacy of its past and accustomed to think about future for a greater role to be played in the field of higher education and in the society at large. This Institute, in nearly two decades of its journey offering quality technical education to the aspirants of the rural area like Pachal (Namakkal District of TamilNadu), has crossed several mile-stones. To name a few, accreditation by NAAC, accreditation by NBA and conferment of autonomy.

Paavai Engineering College is an autonomous and self-finance institution and was established in the year 2001. At present the college offers 15 undergraduate programs leading to B.E/B.Tech. degree, seven postgraduate programs in engineering leading to M.E. degree and also MBA/MCA program and four Ph.D programmes. The college imparts quality education and continuous efforts for upholding quality practices. It meets all the requirements more than the standards laid by the apex bodies. Dedicated and committed faculty teams who strive hard for realizing the Vision through well-defined Mission. The college is practicing OBE since 2015 and is successful in disseminating OBE culture from designing curriculum through assessment. Based on the AICTE model curriculum, the college tweaked its curriculum for improving the academic standards. The college is known for its state-of-the-art infrastructure consisting of centers of excellence, advanced laboratories, well stacked library and ICT facilities.

Situated at Namakkal, with the nearest railway station at 7kms distance and located on NH-44 highway thus well connected by road and rail. It is spread over 15.75 acres of clean, Green and serene area.

Vision

To strive to be a globally model Institution all set for taking 'lead-role' in grooming the younger generation socially responsible and professionally competent to face the challenges ahead.

Mission

- To provide goal- oriented, quality – based and value – added education through state – of – the – art technology on a par with international standards.
- To promote nation – building activities in science, technology, humanities and management through research
- To create and sustain a community of learning that sticks on to social, ethical, ecological, cultural and economic upliftment.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Benign management with enlightened vision
- Collective Academic leadership
- Our college has received All India level First Rank – Best Internship Record from AICTE and Internshala for the past three consecutive years
- Paavai has been awarded “Champion of Champions Trophy” consecutively for six years in the Anna University Sports and Games Competitions
- Transparent administration with well-defined decentralization of authority
- CBCS pattern under OBE is followed
- Highly qualified, experienced, committed and students-caring faculty members
- Encouragement for Innovative teaching practices
- Centers of Excellence such as CNC vertical Machining center, TVS Haritha, Texas Instrument Laboratory are established to promote research culture in the college.
- Business Incubation Centre been established under MSME, Govt of India
- Paavai Engineering College has established MoUs with Taiwan Universities for promoting research, internship and student exchange programmes
- Inviting eminent personalities from various domains to motivate students community
- Question papers are set as per Bloom’s Taxonomy
- Assessment Rubrics for mini and major projects
- Research Development and Growth in terms of several outcomes
- Good Faculty-Student Ratio
- Research facilities are provided
- University approved research centers
- Exclusive Training & Placement Cell with adequate facilities for training
- Good placement record
- Use of ICT tools by all faculty members
- Well-equipped and neatly maintained Laboratories
- Adequate infrastructure for the start-up eco system
- Alumni engagement for the college growth & development
- The students are provided with amenities like Gym, sports and games facilities, medical facilities to create a work culture of utilization of resources beyond the working hours.
- Paavai Excellent indoor and outdoor sports facilities

- Innovative facilities like Entrepreneurship development cell, Institution Innovation council-MHRD have been established.
- Centre for Foreign language has been established. The language such as Japanese, German, French and Mandarin has been taught to students
- Exclusive Faculty Development Department has been established to look in to the matters of teaching-learning process
- Provision for UPSC exam training through Paavai IAS academy
- Wi-Fi facility with e-learning resources on campus LAN and web connectivity.
- Fee waiver policy for merit students and sports quota students
- Association with professional bodies viz, ISTE, IEEE, IE, CSI etc.
- Green and eco-friendly campus

Outreach and extension programmes are extensively carried out regularly

Institutional Weakness

- Rural background students with moderate cut off marks.
- Poor Communication skill of students: As most of the students are from rural background, their communication skills need to be improved
- Entrepreneur awareness is less in the students.
- R&D in cutting-edge technologies needs to be enhanced.
- Potential of networking with other institutions is not fully explored.
- Industrial consultancy is to be strengthened considerably

Institutional Opportunity

- Inter-disciplinary research and collaboration with other institutes to develop effective engineering solutions for the problems in the fields of artificial intelligence, robotics thermal solar power, IOT, Deep learning, Machine Learning, 3D printing and so on.
- Probability of offering electives and add on courses in the emerging areas in collaboration with industries
- Transform pedagogical practices and adopt latest technological relevant courses in curriculum
- An opportunity for student internship for all students of all streams.
- Inviting senior professor /adjunct professor/distinguished professor in the specialized areas. Networking and sharing of resources with other institutions
- Collaboration with more foreign Universities for student exchange programmes
- Establishment of Centre of Excellence for research, training and development in collaboration with industries and research laboratories in the specialized areas

Institutional Challenge

- Saturation of engineering education market
- Declining interest in traditional(Mech, Civil, EEE) programs by students
- In spite of providing opportunities for higher education such as special coaching through Paavai IAS academy, Foreign languages such as German, French, Mandarin and Japanese through Centre for Foreign languages and MoUs with foreign universities, students prefer only placement rather than Higher education due to their family background and financial constraints.
- To develop the language proficiency levels of the students with Tamil medium background and make them reach the expectations of the industry.
- Ensuring all the students employable
- Attracting meritorious students.
- Addressing academically weak students.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The Paavai Engineering College has been conferred autonomous status by UGC in 2015. There are 15 undergraduate programmes and seven post graduate programs including M.B.A and M.C.A under the autonomous Regulations-19(R-19). The academic Programmes under outcome based education define Programme Educational Objectives which are achievable and it is consistent with Vision and Mission of the College. The Regulations have been amended and framed as and when it is required. The Regulations-16 and Regulations-19 have been framed after adopting CBCS pattern by following the norms of Anna University, Chennai, AICTE norms, NBA, TNSHE. The Regulations have been approved by the Academic Council of the college. The Regulations-19 is currently followed and implemented. The institution implements choice-based credit system (CBCS) and offers 160-165 credits for undergraduate programs, based on the AICTE model curriculum to suit the local and industry (global) requirements. The curriculum design and development process is flexible and it is continuous for quality enhancement of courses. The curriculum also includes courses that identify, nurture and develop entrepreneurs. The curriculum and courses are designed based on course objectives and intended course outcomes, which are in line with programme outcomes. The curriculum and course design includes content, pedagogy and technological aspect of the course. To enrich the curriculum, revision of syllabus is made through Board of studies of the department concerned and is further approved by Academic council and Governing council for further implementation. Under CBCS pattern, elective courses, internships, online courses, one credit courses, mandatory courses, audit courses, industrial visits are offered. The college encourages students to do value added and skill development courses to develop their technical competency. The academic audits and feedback from stakeholders are in the process regularly for continuous improvements in Curriculum design and delivery

Teaching-learning and Evaluation

Paavai Engineering College attracts fairly good number of students in the state of the Tamil Nadu. It offers 15 UG and 7 PG programs and seats are filled through Tamil Nadu state counseling, satisfying the number of seats earmarked under reserved categories as per the GO issued by the Government. The college prepares and adheres to the academic calendar and teaching plans regularly. The college adopts the student – centric learning and experiential learning as its corner stone in academic process. It has student community from diverse

geographical regions/ethnicity and provides adequate support to cater to their varied learning needs. The faculty members are pivotal for teaching-learning process. They are highly qualified, experienced and dedicated team. The student-centric learning methods were adopted, for participative and experiential learning. To ensure the quality of teaching, learning and evaluation processes the revised Bloom's taxonomy is referred and practiced by the college. The maxims of teaching such as known to unknown, simple to complex, concrete to abstract are followed and practiced. The faculty members practice the skill of Introduction, explanation, questioning, illustrating with examples, use of black board, use of ICT tools and closure in their day to day teaching-learning process. All the faculty members of the institution are trained for contemporary and innovative methods of teaching and encouraged to attend various programmes on pedagogy training. The practices followed to achieve quality teaching and learning are ICT enabled, participatory learning, interactive learning, Peer learning, collaborative learning, quiz, discussion, seminar, project, laboratory method, project method, problem-solving method and on field training etc. Learner friendly approaches adopted by teachers, motivate students to learn in a flexible manner. Faculty members always keep abreast of latest technology to make teaching effective. ICT is integrated in teaching through Learning management system to enhance students' experience. The college has automated examination system. The Program Outcomes are assessed using direct/indirect methods to identify educational and operational gaps to propose action plan for further integration in the strategic planning. Teaching learning processes are continually improved based on students' results and students' satisfaction.

Research, Innovations and Extension

Paavai Engineering College has separate Research & Development cell, to promote research activities with earnest initiative to inculcate research culture across the college. The college has provided all necessary facilities to the faculty members to undertake sponsored/ funded as well as consultancy projects of private, both state and central government sectors. The college is always in the forefront to send the faculty members to different FDPs/ workshops/ training programs to update and undertake research works. Quite a good number of faculty members are Ph.D Degree holders and many young faculty are working for their Ph.D degrees in various Universities/ Institutions.

For the last five years, a steady growth in the faculty research outcome is visible, in terms of filing patents, publishing research papers in reputed journals and also fetching externally funded research projects from various government and non-government organizations. There are about 53 patents published by the faculty members. Till now approximately 453 research papers are published by our faculty members for the last five academic years. The quality of publications can be best understood by the h-index. The h-index of the publications of Paavai Engineering College is 20.

In order to motivate the faculty to take-up research, several incentive schemes are initiated by the college. In addition, support is extended for research by providing seed money, based on a review of experts. Faculty members are deputed to national and international conferences to present their research findings and they are provided with travelling allowances. MoUs with industries, companies, educational institutions of regional, national and international organizations is established. Centers of excellence are established in the campus to promote research oriented activities and develop students' inherent talent and skills.

To encourage and motivate students' involvement in research activities, Institution Innovation council and Entrepreneurship Development cell has been established to conduct entrepreneurship awareness camps, talk series and ideation camps to promote entrepreneurship, innovation and incubation. The College is also actively involved in extension activities to help society by its services. The college organizes number of workshops and sensitization programs to create research spirit among teachers and students.

Infrastructure and Learning Resources

The college has an extensive Infrastructure spread over 15.75 acres with a total built up area 41661 Sq.m. The infrastructure comprises of Academic Building, Departments, State of the Art laboratories, Incubation Centre, Centres of excellence, well-furnished classrooms, Full-fledged office of Controller of Examinations, Auditoriums/Conference Halls, Health Care Centre, Roads, backup power supply systems and Water supply including mineral water plant etc.

The college has 80 classrooms, out of which 72 classrooms are ICT enabled, 6 drawing halls and 5 seminar halls. The Computer Centre monitors the network connectivity throughout the campus with 1Gbps and 189 secured access points. The Library housed in a spacious room with a seating capacity of 120 and has the following: Titles -11225, Volumes- 46310, Printed Journals – National: 144 & International: 126 and with Online access of international databases (digital library). The college is a Member of National Digital Library and NPTEL video lectures are available for reference Reprographic/Scanning/Printing facilities. Departmental libraries also have books for ready references.

Sports facilities include Cricket, Football grounds, Basketball, Volleyball, Tennikoit courts for outdoor games and indoor stadium for Ball badminton, chess, carrom board etc. The Amenities include separate Boys and Girls Hostels, Common rooms, Toilets, Gymnasium, Yoga center, ATM center, Stores, Clinic, Union bank, canteen, extension counter Cafeteria and Sick room with all necessary facilities are available. The college promotes socialization by organizing cultural activities in auditoriums and college open area. From the feedback of stakeholders adequate budget for upgrading, maintaining and utilizing physical, academic and support facilities is ensured.

Student Support and Progression

The students are taken care of by providing various facilities in the form of indoor and outdoor sports facilities, encouragement for participation in co-curricular activities, besides supporting deserving students with financial assistance from the college and assisting them to benefit from the Govt. scholarship schemes. The institution is providing scholarships/fee concession to meritorious and poor students. The institution publishes its updated prospectus, which highlight the facilities available in the college, with information about different committees of the college, college annual calendar, Yoga and Meditation, NSS, library facilities, sports activities and career counseling, etc. The college has Grievance redressal mechanism, wherein all grievances are addressed timely and necessary actions are taken and recorded. The college has separate Training and Placement Cell through which the Eligible students are placed in reputed companies. The college involves Students in various committees like Board of Studies, Department Associations, Technical clubs, Sports clubs, Cultural clubs and National Service Scheme (NSS), YRC. Under Ullas trust, students visit the local rural schools to teach the students and thus cater the overall growth and success rate of the institution. The Alumni Network, which is a registered one, supports the institution and contributes to its institutional and academic development. The students actively participate in all the activities of the college, thus imbibing the responsibility as a student and as a citizen. The college conducts Alumni meet every year along with students abroad, to bring together all the old students to share their experiences with faculty. The College believes and promotes wholesome/holistic

education. Accordingly, the students are provided with wide variety of self-learning opportunities under mentorship. They are empowered to carryout/organize activities independently to hone their soft skills like team building, collaborative activities, networking among the peers, so as to build their self- confidence.

Governance, Leadership and Management

In tune with the institutional vision and mission, the governance of Paavai Engineering College is participative and decentralized management in decision making process. The college exhibits its effective leadership by imparting world class quality education & training to students and instills human values, ethics and environmental concern for the wellness of the country. The institution implements several welfare schemes to aid the teaching and non-teaching staff. The institution provides financial support for teachers to attend conferences, workshops and towards membership fee of professional bodies. The institution implements e-governance in the areas of planning & development, administration, finance & accounts, student admission & support and examination. The institution engages qualified Auditors and Accountants for the conduct of internal and external financial audits at periodical intervals. Under IQAC initiatives, the college strategically enhances the quality of Teaching and Learning Process through continuous new initiatives such as Faculty Self-Appraisal, Training Programs for Teaching, Non-Teaching training programs, Workshops, Conferences, Research related activities, Educational Reforms, Setting the Quality Bench Marks, Key Performance Indicators, Incentives, Academic and Administrative Auditing (both internal & external) and Student Mentoring System etc. As per IQAC norms, the institution reviews its teaching-learning process, structures & methodologies of operations and learning outcomes at periodic intervals.

Institutional Values and Best Practices

Paavai Engineering College throws its focus on quality based technical education besides promoting values and ethics among the students of rural background. The institution makes sincere efforts to empower gender equity and equality.

Our College has successfully installed the rainwater harvesting system to effectively use the water resources. The college has prioritized the green practices and eco-friendly environment in the campus. The college inculcates social responsibility among the students, through extension activities such as Tree plantation, blood donation, awareness rally on road safety, health and hygiene, Aadhar camp, Voters ID camp, cleaning the school, etc. Under Unnat Bharat Abhiyan, the college has adopted five villages. In order to inculcate the culture of India, Value Oriented practices such as Padha Pooja to parents during Induction programme and salutation to the teachers in the form of Padha Pooja on Teacher's day are encouraged. These practices have tremendous change in the behavior of the students. These are the best practices of the campus along with other practices. Placement training programmes are being regularly conducted by the college, through the Placement and Training Cell of the college so as to groom the students for employability. The training includes aptitude, soft skills, communication skills, group discussions, technical skills and so on. The tier-I and tier-II companies are invited for campus recruitment. The placement record is being improved gradually.

The college always adopts uniqueness in moulding the personality of the students by following its own Distinctiveness, Christened as "Mandatory registration for internships for all students". The main objective of this internship is to transform the students' community into economically independent citizens. This is unique,

because it is adopted under the principle, “Earn while you learn”. The uniqueness of this practice is that, though internship is provided by all the other colleges, but registration is made mandatory for all the students of this college, to do internship through Internshala and expose the students to global market and international requirement. Many students have emerged as app developers, software developers, programmers, management executives and as entrepreneurs.

NAAC

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	PAAVAI ENGINEERING COLLEGE
Address	NH-44(FORMERLY NH-7),PACHAL
City	Namakkal
State	Tamil Nadu
Pin	637018
Website	http://pec.paavai.edu.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	M.premkumar	04286-243038	9965466888	04286-243058	pecprincipal@paavai.edu.in
IQAC / CIQA coordinator	M.sundra Murthy	04286-243098	7904991163	04286-243068	edcpec@paavai.edu.in

Status of the Institution	
Institution Status	Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	
Date of Establishment, Prior to the Grant of 'Autonomy'	01-01-2001

Date of grant of 'Autonomy' to the College by UGC	21-04-2015			
University to which the college is affiliated				
State	University name	Document		
Tamil Nadu	Anna University	View Document		
Details of UGC recognition				
Under Section	Date	View Document		
2f of UGC	10-01-2014	View Document		
12B of UGC				
Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	15-06-2020	12	

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	NH-44(FORMERLY NH-7),PACHAL	Rural	15.75	41661

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,Agriculture Engineering	48	HSC for First year or Diploma for Lateral entry	English	120	120
UG	BE,Aeronautical Engineering	48	HSC for First Year or Diploma for Lateral entry	English	60	19
UG	BE,Biomedical Engineering	48	HSC for First Year or Diploma for Lateral entry	English	60	60
UG	BTech,Chemical Engineering	48	HSC for First Year or Diploma for Lateral Entry	English	60	23
UG	BE,Civil Engineering	48	HSC for First year or Diploma for Lateral entry	English	60	17
UG	BE,Computer Science And Engineering	48	HSC for first year or Diploma for Lateral entry	English	120	116
UG	BE,Cyber Security	48	HSC for First year or Diploma for Lateral Entry	English	60	60
UG	BE,Electronics And Communication Engineering	48	HSC for First year or Diploma for Lateral entry	English	120	67
UG	BE,Electrical And Electronics Engineering	48	HSC for First year or Diploma for Lateral entry	English	60	45

UG	BTech,Food Technology	48	HSC for First year or Diploma for Lateral Entry	English	60	57
UG	BTech,Information Technology	48	HSC for First Year or Diploma for Lateral Entry	English	60	60
UG	BE,Mechanical Engineering	48	HSC for First year or Diploma for Lateral Entry	English	120	52
UG	BE,Mechatronics	48	HSC for First year or Diploma for Lateral Entry	English	60	19
UG	BE,Medical Electronics	48	HSC for First Year of Diploma for Lateral Entry	English	60	27
UG	BTech,Pharmaceutical Technology	48	HSC for First Year or Diploma for Lateral Entry	English	60	54
PG	ME,Computer Science And Engineering	24	Bachelor of Engineering	English	24	1
PG	MBA,Master Of Business Administration	24	Bachelor of Degree	English	60	45
PG	MCA,Master Of Computer Applications	24	Bachelor of Degree	English	60	22
PG	ME,Engineering Design	24	Bachelor of Engineering	English	18	1
PG	ME,Power Systems Engineering	24	Bachelor of Engineering	English	18	0
PG	ME,Structur	24	Bachelor of	English	24	3

	al Engineering		Engineering			
PG	ME, Communication Systems	24	Bachelor of Engineering	English	24	1
Doctoral (Ph.D)	PhD or DPhil, Electrical And Electronics Engineering	24	Master of Engineering	English	19	2
Doctoral (Ph.D)	PhD or DPhil, Mechanical Engineering	24	Master of Engineering	English	14	1
Doctoral (Ph.D)	PhD or DPhil, Physics	36	Master of Science	English	15	1
Doctoral (Ph.D)	PhD or DPhil, Chemistry	36	Master of Science	English	14	0

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	45				72				228			
Recruited	32	13	0	45	44	28	0	72	124	104	0	228
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				45
Recruited	30	15	0	45
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				75
Recruited	63	12	0	75
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/LLD	0	0	0	0	0	0	0	0	0	0
Ph.D.	29	13	0	14	7	0	5	2	0	70
M.Phil.	1	0	0	1	7	0	13	23	0	45
PG	2	0	0	29	14	0	106	79	0	230

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/LLD	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/LLD	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
	4	0	0	4

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	562	17	0	0	579
	Female	224	4	0	0	228
	Others	0	0	0	0	0
PG	Male	30	1	0	0	31
	Female	42	0	0	0	42
	Others	0	0	0	0	0
Doctoral (Ph.D)	Male	2	0	0	0	2
	Female	2	0	0	0	2
	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	152	101	152	177
	Female	78	62	71	73
	Others	0	0	0	0
ST	Male	10	7	12	10
	Female	5	6	5	9
	Others	0	0	0	0
OBC	Male	627	479	520	672
	Female	209	211	245	260
	Others	0	0	0	0
General	Male	31	18	29	36
	Female	18	11	11	9
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		1130	895	1045	1246

2.3 EVALUATIVE REPORT OF THE DEPARTMENTS

Department Name	Upload Report
Aeronautical Engineering	View Document
Agriculture Engineering	View Document
Biomedical Engineering	View Document
Chemical Engineering	View Document
Chemistry	View Document
Civil Engineering	View Document
Communication Systems	View Document
Computer Science And Engineering	View Document
Cyber Security	View Document
Electrical And Electronics Engineering	View Document
Electronics And Communication Engineering	View Document
Engineering Design	View Document
Food Technology	View Document
Information Technology	View Document
Master Of Business Administration	View Document
Master Of Computer Applications	View Document
Mechanical Engineering	View Document
Mechatronics	View Document
Medical Electronics	View Document
Pharmaceutical Technology	View Document
Physics	View Document
Power Systems Engineering	View Document
Structural Engineering	View Document

Extended Profile

1 Program

1.1

Number of programs offered year-wise for last five years

2019-20	2018-19	2017-18	2016-17	2015-16
25	21	20	20	20
File Description		Document		
Institutional data in prescribed format		View Document		

1.2

Number of departments offering academic programmes

Response: 17

2 Students

2.1

Number of students year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
3649	3574	3769	3820	3715
File Description		Document		
Institutional data in prescribed format		View Document		

2.2

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

2019-20	2018-19	2017-18	2016-17	2015-16
969	992	843	939	985
File Description		Document		
Institutional data in prescribed format		View Document		

2.3

Number of students appeared in the examination conducted by the Institution, year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
3548	3510	3576	3679	3584
File Description		Document		
Institutional data in prescribed format		View Document		

2.4

Number of revaluation applications year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
97	165	72	90	40

3 Teachers**3.1**

Number of courses in all programs year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
1332	1422	1230	1118	1000
File Description		Document		
Institutional data in prescribed format		View Document		

3.2

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

2019-20	2018-19	2017-18	2016-17	2015-16
353	338	370	365	316
File Description		Document		
Institutional data in prescribed format		View Document		

3.3

Number of sanctioned posts year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
0353	0338	0370	0365	0316
File Description		Document		
Institutional data in prescribed format		View Document		

4 Institution**4.1****Number of eligible applications received for admissions to all the programs year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
1717	1514	1578	1845	1910
File Description		Document		
Institutional data in prescribed format		View Document		

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

2019-20	2018-19	2017-18	2016-17	2015-16
1130	895	1045	1246	1336
File Description		Document		
Institutional data in prescribed format		View Document		

4.3**Total number of classrooms and seminar halls****Response: 85****4.4****Total number of computers in the campus for academic purpose****Response: 996**

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

2019-20	2018-19	2017-18	2016-17	2015-16
1112.702	961.35644	821.3242	950.4299	986.0183

NAAC

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curriculum Design and Development

1.1.1 Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific Outcomes(PSOs) and Course Outcomes(COs) of the Programmes offered by the Institution.

Response:

The academic programmes which are drafted, keeping in mind the vision and mission of the institute, are meticulously designed to meet the changing needs of the stakeholders and the local, national and global trends while adhering to regulatory requirements. The broad objectives of the programmes are all set to inculcate a holistic education through Outcome Based Education (OBE) that emphasises an all-round development of the students by synchronizing academics with co-curricular activities.

Competency based curriculum with Choice Based Credit System (CBCS) is offered since 2016. A periodic review of the CBCS curriculum is done through feedback from all the stakeholders such as faculty members, students, alumni, subject experts from reputed institutions, employers and experts to fulfil the challenging needs from the industry to redesign the curriculum. The suggestions received from them are analysed by the Department Advisory Committee and constructive suggestions are considered for modification and updation in the curriculum. During the curriculum redesign process, Department Advisory committee defines the Foundation courses(Basic sciences & Engineering sciences), Professional Core, Professional Electives, Open Electives, Employability Enhancement, Online, and One Credit courses in the curricula which cater to the local, national and global needs and to provide a theoretical foundation blended with practical engineering skills with an emphasis on Social/professional responsibility and environment and sustainability related issues. Following that, the syllabus in charge faculty members formulate the course outcomes (COs) for the courses in line with the Programme Outcomes and Programme specific outcomes. Foundation courses, Employability Enhancement courses cater the local needs, Professional Core, Professional Electives, Open Electives, Employability Enhancement, Online, and One Credit courses meet out both the national and global needs.

The finalized curricula and syllabi of all semesters in a department will be presented and discussed in the Board of studies (BOS) meetings concerned for its recommendation for Academic Council approval. The Academic council approval shall be presented in the Governing body meeting of the college conducted once in an academic year for effective implementation of the same. The curriculum and syllabi are revised from time to time. In the process of improving the curriculum, care has been taken to ensure adherence to norms and guidelines prescribed by the Anna University, Chennai, DOTE, Tamil Nadu Higher Education Department, the AICTE, NBA and the UGC.

Salient features of the curriculum

- Choice Based Credit System(CBCS) is offered under outcome based education
- Credits are allotted for In-plant training/Internships for experiential learning
- Credit transfer for online courses as per Affiliating University Guidelines
- Open Elective courses to enrich interdisciplinary learning
- One Credit courses to enhance the employability skills of students
- Value added and Add-on courses is offered according to the expectations of the Industry
- Skill training is practised in laboratories
- Provision is given for Product development
- Life skill courses are given
- Technical seminars - Learning platform to enhance presentation and communication skills
- Every student is advised to complete mandatory courses such as Induction programme, Value education, Environmental science and progress norms of the college

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

1.1.2 Percentage of Programmes where syllabus revision was carried out during the last five years.**Response:** 84**1.1.2.1 Number of all Programmes offered by the institution during the last five years.****Response:** 25**1.1.2.2 How many Programmes were revised out of total number of Programmes offered during the last five years****Response:** 21

File Description	Document
Minutes of relevant Academic Council/BOS meeting	View Document
Details of program syllabus revision in last 5 years(Data Template)	View Document
Any additional information	View Document
Link for Additional Information	View Document

1.1.3 Average percentage of courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the last five years

Response: 0

1.1.3.1 Number of courses having focus on employability/ entrepreneurship/ skill development year-wise during the last five years..

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

File Description	Document
Programme / Curriculum/ Syllabus of the courses	View Document
MoU's with relevant organizations for these courses, if any	View Document
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	View Document
Average percentage of courses having focus on employability/ entrepreneurship(Data Template)	View Document
Any additional information	View Document
Link for Additional Information	View Document

1.2 Academic Flexibility

1.2.1 Percentage of new courses introduced of the total number of courses across all programs offered during the last five years.

Response: 65.73

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

Response: 4011

1.2.1.2 Number of courses offered by the institution across all programmes during the last five years.

Response: 6102

File Description	Document
Minutes of relevant Academic Council/BOS meetings	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document
Link for Additional Information	View Document

1.2.2 Percentage of Programmes in which Choice Based Credit System (CBCS) / elective course system has been implemented (Data for the latest completed academic year).

Response: 84

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

Response: 21

File Description	Document
Minutes of relevant Academic Council/BOS meetings	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document
Link for Additional Information	View Document

1.3 Curriculum Enrichment

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

Response:

Yes.

- The institution integrates the cross cutting issues like Gender, Environment sustainability, Human values and professional ethics into the curriculum.
- All branches of engineering deal with the topics related to environmental factors while dealing with

real time applications of engineering education, environmental factors are considered. Environmental science and engineering, Value education, Progress norms courses of the college courses are made mandatory for all the students to study and get pass to receive their degree. **Apart from this course, there are courses such as Disaster management, Waste water engineering offered in B.E Civil Engineering, Safety Engineering and environment system and Renewable energy offered in B.E.Mechanical Engineering, Green computing is offered in B.E Computer science and Engineering, Wind and solar energy system is offered in B.E Electrical and Electronics Engineering and almost all courses in B.E.Agricultural engineering includes environment and sustainability factors inbuilt in the curriculum which makes the students to become aware of the environment where they live for the better future.** Professional ethics and Human values are offered as elective to all branches of engineering. Gender equity is offered as a value added course in under graduate programmes.

- The courses offered in MBA programmes like gender equity, Total quality Management, Contract law and regulations, Professional ethics, Principles of Management, Pedagogy studies and Research methodology and IPR which enable the students to acquire knowledge on norms and ethics of an institution in general and particular
- The college, at its own level make arrangements for workshops and conferences at the National and International Level wherein the experts from the above mentioned fields are invited to share and deliver their experiences and knowledge. The college regularly organizes programme on Women Empowerment to disseminate knowledge on women's' role in society.
- The institutions goal is that every student addresses his/her fellow student either as brother or sister. In all the extracurricular programmes women empowerment related debates are held in order to inculcate gender equality and organizational and managerial skills of Women as individuals and as career women. MBA department conducts market day programmes to promote the sale of products manufactured by Self Help Group women, Namakkal. Entrepreneurial skills were focused for the benefit of women.
- On the whole, the College strives to ensure that not only a young technocrat is moulded but also a complete human being with a good civic sense and socially responsible is shaped. A strong youth of today is going to be partner to the development of India's future

File Description	Document
Upload the list and description of the courses which address the Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum	View Document
Any additional information	View Document
Link for Additional Information	View Document

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

Response: 383

1.3.2.1 How many new value-added courses are added within the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
86	82	64	80	71

File Description	Document
List of value added courses (Data Template)	View Document
Brochure or any other document relating to value added courses	View Document
Any additional information	View Document
Link for Additional Information	View Document

1.3.3 Average Percentage of students enrolled in the courses under 1.3.2 above.

Response: 2.56

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

2019-20	2018-19	2017-18	2016-17	2015-16
44	0	188	252	0

File Description	Document
List of students enrolled	View Document
Any additional information	View Document
Link for Additional Information	View Document

1.3.4 Percentage of students undertaking field projects/ internships / student projects (Data for the latest completed academic year)

Response: 38.53

1.3.4.1 Number of students undertaking field projects / internships / student projects

Response: 1406

File Description	Document
List of programs and number of students undertaking field projects / internships / student projects (Data Template)	View Document
Any additional information	View Document
Link for Additional Information	View Document

1.4 Feedback System

1.4.1 Structured feedback for design and review of syllabus – semester-wise / year-wise is received from 1) Students, 2) Teachers, 3) Employers, 4) Alumni

Response: A. All 4 of the above

File Description	Document
Any additional information	View Document
Action taken report of the Institution on feedback report as minuted by the Governing Council, Syndicate, Board of Management	View Document
URL for stakeholder feedback report	View Document
Link for Additional Information	View Document

1.4.2 The feedback system of the Institution comprises of the following :

Response: C. Feedback collected and analysed

File Description	Document
Any additional information	View Document
URL for stakeholder feedback report	View Document
Link for Additional Information	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average Enrolment percentage (Average of last five years)

Response: 75.22

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

2019-20	2018-19	2017-18	2016-17	2015-16
1130	895	1045	1246	1336

2.1.1.2 Number of sanctioned seats year wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
1428	1428	1548	1548	1548

File Description	Document
Institutional data in prescribed format (Data Template)	View Document
Any additional information	View Document
Link for Additional Information	View Document

2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (exclusive of supernumerary seats)

Response: 88.2

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

2019-20	2018-19	2017-18	2016-17	2015-16
956	867	1006	1040	1066

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document
Link for Additional Information	View Document

2.2 Catering to Student Diversity

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

Response:

The institution assesses the learning levels of the students in two ways at the time of the commencement of the programme.

First year students: The first year students enrolled in various disciplines are identified as slow and advanced learners based on their +2 marks and the entry level form filled by the students of all departments. This helps to identify the slow learners and to design special coaching sessions or tutorial sessions to bridge the gap between the slow learners and the advanced learners. The institution organizes Orientation programmes/Induction programmes for fresher's both at the college level and at the department level. The facilities in the college and the scope of the subjects being learnt are introduced in these sessions. This process helps as a base for monitoring the future progress of the students.

Second, third and final year students: The institution assesses the learning levels of the students based on the direct assessment and in direct assessment method. The direct method involves continuous assessment tests and End semester examination. The indirect assessment method involves assignment, quiz, project, technical seminar presentation, mini project and best innovative practice of the student. Based on the performance of the students in direct and indirect assessments, the students are categorized as advanced learners and slow learners.

After the identification, the department heads conduct meeting with the faculty members to conduct remedial class, coaching class and tutorial class for slow learners.

Strategies adopted for facilitating advanced learners:

- Fast track system is offered to these students so that these students utilize their final semester in internships
- Offering special coaching for IAS, GATE, and IELTS exams.
- Students are offered foreign languages such as French, German, Japanese, Mandarin through the centre for foreign language of Paavai Engineering College.
- MoU's with foreign universities established to encourage students to pursue higher education.
- Motivating to access latest journals, reference material, helping the students to understand the emerging trends in the field of study and training them to use audio visual aids like PowerPoint, charts, models, etc., for effective presentation.

Strategies adopted for improving slow learners:

Slow learners are identified and given special attention towards their academic performance

- They are provided with remedial and additional classes for the courses in which they are identified as slow learners. It is conducted in the evening hours
- The slow learner's attendance is monitored to ensure their regularity.
- Remedial classes are conducted to overcome their deficiencies.
- Tutorial classes for analytical and problematic courses are conducted; the teachers can devote more time for slow learners to help them overcome learning challenges.
- Help is rendered by peer teachers to understand the courses better
- Bilingual explanation and discussions are imparted to the slow learners after the class hours for better understanding
- Provision of simple and standard lecture notes/course materials and question banks are provided
- Personal counselling is given for students to help them sort out their problems related to learning.
- Interactions with parents and their feedback help in counselling the students effectively.

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

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

Response: 10:1

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

The teaching-learning process of the college is based on student centric methods such as experiential learning, participative learning and problem solving methodologies. The students are made involved; participate in all the activities of the college so that the learning experiences will be long-lasting.

Experiential learning: In curricular aspect, the students are offered Courses with Lab Component in the curriculum through internship, skill training, one credit courses, Value added courses and Project work. In co-curricular aspect, the students are taken to field visit, industrial visit to make the students to experience

the real world situation of the Industry. MoUs have been established by all departments with various industries pertaining to their branch to make students to experience learning in terms of industrial visits, expert lectures, and internships and doing their projects in industries or companies. Guest lecture is being arranged regularly by all the departments of the college to update and to be aware of the latest technology of the particular branch concerned. The final year students are advised to become members of Professional Technical Societies. In extra-curricular activities like club activities, department association activities and cultural activities the students are given responsibility such as Head, Secretary, Joint secretary and so on so that they experience the managerial positions, develop interpersonal skills and take right decisions for smooth functioning of the activities.

Participative Learning: In curricular aspect, the students are given opportunity to present technical seminar,, Skill training, Participation in labs, Industry related projects, Internships, Participation in Project design contest, Mini projects and project work. In co-curricular activities, the role play, debate, group discussion, symposium, seminar, quiz are also conducted to encourage participatory learning. In extra-curricular activities, NSS programme, blood donation, republic day parade participation in New Delhi, Village adoption, Awareness camp on Environment and social issues, yoga and meditation classes. Students are trained and encouraged to participate in paper presentation/ seminars and prepare project proposals and thus carryout the extension of their learning.

Problem solving methodology:In curricular aspect, Tutorials, Assignments are given to enhance the higher order thinking skills of the students to solve the problems of various nature. In co-curricular aspect, the students are motivate to participate in the Project Expo, Project Contest, Hackathon, Makethon, cultural activities, club activities, committee activities to develop their problem solving skills. This paves the way for the students to face the problem in the society and to know how to solve them efficiently.

Apart from the above methodology, the teaching-learning process includes conventional and modern teaching methods. The practices followed to achieve quality teaching and learning are ICT enabled, participatory learning, interactive learning, Peer learning, collaborative learning, quiz, discussion, seminar, project, laboratory method, Synthetic-Analytic method, project method, problem-solving method and on field training etc. Learner friendly approaches adopted by teachers motivate students to learn in a flexible manner. Besides regular teaching and learning process, the students and staff are encouraged to register for NPTEL courses.

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

2.3.2 Teachers use ICT enabled tools including online resources for effective teaching and learning process.

Response:

The Paavai engineering College encourages all the faculty members to use ICT enabled tools including online resources for effective teaching-learning process. The college has got 72 ICT enabled classrooms

- Faculty members upload the content of their respective courses in the MOODLE platform
- The faculty members uses Power point, videos from youtube, animations for the effective teaching-learning process.
- High speed internet connectivity is available to staff and students.
- Microsoft Teams, Google meet and Google classrooms are used as teaching and learning platforms for every course in all the departments
- Virtual platforms are used to conduct Laboratory classes for all the departments
- Online quizzes and online assignments are conducted to ensure continuous learning.
- Online surveys and online demos are conducted for effective learning
- The online platform developed is used to develop students coding skills starting from the basic to the advanced level in the programming languages like C, C++, Python from I year onwards. Students' progress is meticulously monitored by their teachers.
- Teachers use NPTEL videos as one of the tools to make the classroom teaching very effective. Every year, teachers and students are encouraged to complete NPTEL course in their domain and get the certificate for quality enhancement
- The IIT Bombay spoken tutorial facility helps the students to learn the technical courses
- The Online Assessment tool is used to conduct and evaluate online objective test and assess the students knowledge in technical courses
- The Central library in the college is digitalized. Sufficient number of books, Journals, e-journals and e-books are available in the library. The research journals are available online and facility for accessing these journals is provided in the campus.
- All the departments conduct webinars, seminars, workshops and guest lectures on the new developments in the core subjects through online and offline using ICT tools for effective teaching and learning by the faculty members and students in each semester.
- Seminar hall is equipped with multimedia facilities using ICT tools. Invited talks and webinars are conducted in seminar hall using ICT facilities.
- Expert video subject lectures delivered by the Institute's senior faculty members and eminent resource persons from other premier institutions are available.
- Mobile alert is given to parents regarding the attendance of their wards by the tutors through Paavai SMS and it indirectly encourages the attendance ratio of the class.
- Social Media is used by the teachers to share the course content and important information about the contest conducted by companies and colleges with the students. And also it is used for monitoring the students' progress during COVID' 19 pandemic situation

The Learning Management System has the following features:

- Academic Information System
- Course material
- Placement related question bank
- Attendance Management System
- Monitoring Students Academic Progress
- English corner material
- Question bank for all courses
- Assignment, quiz can be conducted
- Discussion forum to clear the students query

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	View Document

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

Response: 10:1

2.3.3.1 Number of mentors

Response: 353

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll	View Document
Circulars pertaining to assigning mentors to mentees	View Document
Any additional information	View Document
Link for additional information	View Document

2.3.4 Preparation and adherence of Academic Calendar and Teaching plans by the institution

Response:

Preparation of Academic calendar: The Academic calendar is prepared by the Committee comprising of Principal, Controller of Examinations and Dean Academics. The meeting is convened before the

commencement of the academic year with the heads of all departments to give the schedule of Academic and non-academic activities proposed of the forth coming Academic year. The proposal of activities given by the Hods will be taken for further discussion with COE and Dean Academics. The final shape of Academic calendar is made and it is being distributed to all the heads of the departments and students.

The academic calendar is prepared and printed at the beginning of each year for distribution to all the students. It includes:

- Institution Vision and Mission
- The Under graduate and Post graduate programmes offered by the college
- Opening and closing dates of class work of each semester, last day of instruction, list of public holidays, preparatory holidays for semester end examinations.
- List of all academic non-academic activities
- Details of special academic activities like guest lectures, seminars and workshops are planned by the departments.
- Continuous assessment schedule and End semester examinations
- Time table for the students is displayed in each department Notice Board as well as in the main block.

Adherence to Academic Calendar:

All activities of the college are conducted by the respective HoDs, Deans, Controller of Examinations and the Principal as per the academic calendar. Normally, few scheduled activities are deviated due to some unavoidable circumstances like placement, declaration of holidays and natural calamities under negotiable instruments act by the Government.

Teaching Plan:

Teaching plan is prepared by all the faculty members who are handling the courses of all the departments before the commencement of the semester. Teaching plan otherwise called as lecture plan comprises all the five units with topic distribution, number of hours handled, mode of delivery with tentative dates. It is further verified by the heads of the departments and also the principal of the college. In addition to that Notes of lesson is being prepared by all the faculty members of their respective courses with the mode of delivery. Further, the faculty members have got Log Book which encompass course title, syllabus of the course with course objectives and outcomes, Programme outcomes, Unit wise distribution, topic wise distribution with dates, mode of delivery, ICT used, text books and reference books used, content beyond the syllabus and continuous internal assessment marks, Course outcome and programme outcome mapping, remedial classes and so on. Teaching learning process involves the maxims of teaching such as simple to complex, concrete to abstract are followed and practiced. The faculty members practice the skill of Introduction, explanation, stimulus variation, questioning, illustrating with examples, use of black board, use of ICT tools and closure in their day to day teaching-learning process. All the faculty members of the institution are trained in the contemporary and innovative methods of teaching and encouraged to

attend various programmes on pedagogy training.

File Description	Document
Upload Academic Calendar and Teaching plans for five years	View Document
Any additional information	View Document
Link for 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: 100

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years(Data Template)	View Document
List of the faculty members authenticated by the Head of HEI	View Document
Any additional information	View Document
Link for Additional Information	View Document

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

Response: 12.93

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

2019-20	2018-19	2017-18	2016-17	2015-16
53	53	45	38	36

File Description	Document
Institutional data in prescribed format (Data Template)	View Document
Any additional information	View Document
Link for Additional Information	View Document

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

Response: 4.81

2.4.3.1 Total experience of full-time teachers

Response: 1699

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document
Link for Additional Information	View Document

2.5 Evaluation Process and Reforms

2.5.1 Average number of days from the date of last semester-end/ year- end examination till the declaration of results year-wise during the last five years

Response: 17.2

2.5.1.1 Number of days from the date of last semester-end/ year- end examination till the declaration of results year wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
13	15	16	27	15

File Description	Document
Institutional data in prescribed format (Data Template)	View Document
Any additional information	View Document
Link for Additional Information	View Document

2.5.2 Average percentage of student complaints/grievances about evaluation against total number appeared in the examinations during the last five years**Response:** 2.6**2.5.2.1 Number of complaints/grievances about evaluation year wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
97	165	72	90	40

File Description	Document
Number of complaints and total number of students appeared year wise	View Document
Any additional information	View Document
Link for Additional Information	View Document

2.5.3 IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in Examination Management System (EMS) of the Institution**Response:**

An examination system is devised in such a manner that the continuous learning processes of the students are assessed through standard examination process and methods with confidentiality. The reforms in the examination management system are driven at par with the reforms in examination system of Indian engineering education taken up by the premier technical institutions and pushed by the governing bodies.

The examination details and activities of each and every student's from the admission to completion of degree programme are integrated in the examination management system and are mapped respectively through Information technology tools. The examination system of our college is completely integrated with IT in such a way that the choosing of elective courses, attendance, marks of internal and external examinations are entered in our examination portal through their separate faculty login in our exclusive computer center of COE office, which saves time, eradicates the flaws and mismatches and maintains the credibility of the examination system. The database of the complete examination activities of the students of each and every semester are maintained confidentially and secured back up are made in a periodic manner. The entire examination process and procedures are calculated automatically and just entering the details is enough for the required report. The following significant reforms were effected in our Examination Management system.

S.No.	Reform(s)	Positive impact(s)
1.	Credit System	The student is permitted to earn more than the total number

		the curriculum by opting for additional courses through on	
2	Assignments	5 marks are assigned for the assignments submitted by the subjects and hence the students could update themselves regularly.	
3	Innovative Practices	6 marks are assigned for the innovative practices adopted theory subjects and hence the students could develop their in them.	
4	Online courses	Provisioned the students to learn the courses available of the curriculum	
5	Exemption of elective course	The students who have gained professional skills through credit courses via different forms like MOOCs shall get open elective courses.	
6	Withdrawal from the examinations	The students are permitted to withdraw from appearing regular course(s) in case of accidents or unforeseen	
7	Open elective courses	The students shall gain interdisciplinary subject knowledge specialization.	
8	Fast Track Courses	The students shall undergo a semester-long internship or project work in department/industry	
9	Internships	The students gain industrial/research experience through in a Research organization / University / industry of State/level /International Universities.	
10	Progress Norms	The students are mandated to gain minimum three associated and self-character development skill	
11	One Credit Courses	The students are benefitted through the courses provided academic institution /parent institution / through	
12	Marks weightage for course attendance	Five marks are allotted for attendance in the respective manner and instituted positive impact on the regular pr	
13	Three numbers of CIA tests	Maintain standards and improves the confidence among preparation for examinations covering all t	
14	Students Assessment details in website	The students and their parents could view the assessment marks and period wise attendance and examination results circulars in the (students login) at any p	
15	2 sets of question papers for CIA & ESE	Confidentiality in the question paper sel	
16	Setting the question papers from all the units with internal choice	<ul style="list-style-type: none"> • Maintain standards and coverage of syllabus among • Students are required to study all the units in a given • Improve the course outcomes by implementing inter 	
17	Detailed scheme of evaluation	<ul style="list-style-type: none"> • Uniformity in the evaluation among the evaluators • Fair judgment for the students 	
18	Appointment of squad consisting of senior faculty members to monitor the examinations	Strict monitoring to ensure the smooth and proper condu	
19	Central Valuation	<ul style="list-style-type: none"> • Confidentiality and custody of answer booklets are • Declaration of results within the stipulated time 	
20	Dummy numbering system	Provides unbiased valuation	
21	Establishment of CCTV Surveillance System in the COE office	<ul style="list-style-type: none"> • Continuous monitoring of activities of examination valuation process • Restricted entry and surveillance of the entry of un- 	

		the examination section	
		<ul style="list-style-type: none"> • CCTVs in the vicinity of the examination section to of malpractice 	
22	Evaluation of 3 answer booklets of all the examiners of the concerned board at the beginning of evaluation by other examiners	Provides unbiased valuation and to ensure the credibil	
23	Automation of examination management system	<ul style="list-style-type: none"> • Improvement in reliability, efficiency, security, tran and accuracy in the entire process • Software developed by the institute provides flexibi autonomous curriculum requirements 	
24	Photocopy of answer scripts and revaluation system	Accountability of the evaluation process and improving evaluation	
25	Inclusion of security features in grade sheets as well as in answer booklets	Chances of manipulations and tampering are	
26	Online proctored Examinations	Due to Covid'19 pandemic, the examinations are cond proctored mode, without any obstacle in assessing the performance.	
27	Generation of required reports of students, assessments, examination activities, results and its analysis	The reports are generated through the Examination ma documentation and performance anal	

The above mentioned reforms in the examination systems have created a lot of positive impact among the students in improving their academic performance at par. As the complete examination system has been integrated with IT, it is ease for the departments to document and analyse the performance of the students. Also the COE office provides improved examination system with reliability, efficiency, security, transparency, confidentiality and accuracy.

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

2.6 Student Performance and Learning Outcomes

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

Response:

Yes. The Programme outcomes and course outcomes for all Programmes offered by the institution are stated and displayed on website and it is communicated to teachers and students by displaying on display board, flex, Institution website, HoDs room, Department website, curriculum and syllabus books of all departments. Further, it is communicated to the students and teachers through Induction programme, seminar on Outcome Based Education and CoE presentation.

The institution has implemented the competency based curriculum with Outcome based education under CBCS pattern. In Outcome based education, the Programme Educational Objectives, the Programme Outcomes and Programme Specific Outcomes are framed according to Accreditation specifications.

Course Outcome: The course outcomes are statements that clearly describe the meaningful, observable and measurable knowledge, skills and dispositions that the students will learn in that particular course. The course outcomes include cognitive, affective and psychomotor aspect of learning on the part of students. Course Outcomes (COs) are defined for every course, which describe the competencies to be gained by the student through the course. Every CO is aligned to one or more POs and PSOs and is measured at the end of the Programme, through various assessments, designed specifically to effectively measure the CO and contribute to the PO and PSO that it is mapped to.

The course outcomes for all the courses are formulated based on Revised Bloom's Taxonomy of Educational Objectives such as Remember, Understanding, Applying, Analyzing, Evaluating and create. The department advisory committees of the respective departments suggest forming the course committee for each Course so that the committee members along with one senior faculty member of the course concerned discuss on framing the course objectives and course outcomes. The course outcomes are outlined by the use action verbs to specify the demonstrable and measurable knowledge, skills or dispositions possessed by students completing the particular course. The faculty members of course committee first identify and select the essential, distinct, measurable and demonstrable learning that the students' needs to achieve in that particular course. While writing the objectives and outcomes for the course, the teachers uses the action verbs identifying the specific student knowledge, skill or disposition needs to be demonstrated by the students. The Department advisory committee members further fine tune the course objectives and outcomes framed by the course committee members and finally it will be presented to the Board of studies for approval and suggestions. The suggestions and recommendations given by Board of studies are implemented regularly in all the departments and it will be presented to the Academic council for further approval. The final curriculum and syllabus after approvals will be communicated to the faculty members and students in the form of book and it will be displayed in the Institutional website. The curriculum and syllabus of the respective department cater the results of course outcomes which is mapped with the POs, PSOs and reflects in the attainment of the vision and mission of the department and the institution.

File Description	Document
Upload 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 programme outcomes and course outcomes are evaluated by the institution.

Response:

The attainment of Course Outcomes (COs), Programme Outcomes (POs) and Programme Specific Outcomes (PSOs) are based on the target fixed by all the departments and it is assessed in the institution regularly. The course outcomes are evaluated at the end of each semester and the POs & PSOs are evaluated at the end of the programme.

Attainment of Course outcomes:

The process of attainment of COs, POs and PSOs starts from writing appropriate COs for each course of the program. Then, a correlation is established between COs and POs in the scale of 1 to 3, 1 being low, 2 being medium and 3 being high. A matrix of CO-PO mapping is prepared in this regard for every course in the program including the elective courses.

The attainment of CO is calculated using direct and indirect assessment methods. Direct assessment includes CIA, assignment, project, technical paper presentation and indirect assessment is by Course Exit Survey. The target of CO attainment is set for the batch of the students by the Head of the Institution.

Each CO is mapped with the marks of CIA, assignment, project, technical paper presentation of the students of the course concerned. Then the average percentage of the marks is obtained from the total number of students of the course concerned. Similarly it is calculated for all COs.

In Course Exit Survey, students give their feedback on each COs. Based on the benchmark fixed, indirect attainment of CO is computed. Both direct and indirect attainment should be equal to or above the target set. Then the attainment of CO is achieved. If not corrective action needs to be taken by the department.

Attainment of POs:

POs are one step broader statements than COs that describe what students are expected to know and be able to do upon the graduation. The attainment of POs and PSOs is calculated using direct and indirect assessment methods. The target of POs is set for the batch of the students by the Head of the Institution. The direct attainment of POs is achieved from the grades obtained in End Semester Examination. The indirect attainment is done through alumni and employer survey. The calculated percentage is equal or above the bench mark set, then the POs and PSOs are said to be attained.

The attainment percentage is calculated from 80% of average from direct attainment and 20% of the average is taken from indirect attainment. If the total percentage is equal or above the bench mark set, then it is highly correlated and it is scaled to 3. If it is less than the bench mark, it is medium and low level correlation, which is corresponding to the scale of 2 and 1. An action plan for POs that do not reach the target attainment value must be designed and implemented in the subsequent academic year.

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

2.6.3 Pass Percentage of students(Data for the latest completed academic year)**Response:** 86.89**2.6.3.1 Total number of final year students who passed the examination conducted by Institution.**

Response: 842

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

Response: 969

File Description	Document
Upload List of Programmes and number of students passed and appeared in the final year examination(Data Template)	View Document
Any additional information	View Document
Link for the annual report	View Document
Link for additional information	View Document

2.7 Student Satisfaction Survey**2.7.1 Online student satisfaction survey regarding teaching learning process****Response:** 3.6

File Description	Document
Upload database of all currently enrolled students	View Document
Upload any additional information	View Document
Link for any additional information	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Promotion of Research and Facilities

3.1.1 The institution's Research facilities are frequently updated and there is a well defined policy for promotion of research which is uploaded on the institutional website and implemented

Response:

Yes, The College has Research and Development policy for promoting and upgrading the research culture among the students and faculty members. The research and development cell of the college was established in the year 2015-16 to promote research culture and research activities of the faculty members, students and scholars of the college. The R&D cell was set up with the objective of developing the strategic plan for scientific technology research and ensuring the implementation of such plan. The research facilities are frequently updated by establishing many. The Research & Development Budget was separately allotted for each department. The promotional activities are carried out through this budget.

The research activities include supervision, execution of new research, academic and research collaboration with National and international institution/Universities, Government/private industry, Government funded/private funded project that result in development of new or existing products, process or theories, there by publication of IPR and transfer of technology.

Research and Development - Four Departments (Mechanical, Electrical and Electronics, Physics and Chemistry) of our College have been recognized and declared as Ph.D research centres by Anna University. The research and development cell of the college actively engaged and has resulted in receiving grants from organizations like AICTE, CSIR, TNSCST, Royal academy of Engineering, IE, Salem, etc., and also from few industries. The college has a research committee to facilitate, monitor and encourage the research activities. The committee keeps track of the schemes of the UGC and other agencies like CSIR, DST, DRDO, SERB, ICSSR, ICMR etc. The faculty members and the departments are getting fund from various government and private organization for promoting their research activities. Paavai Engineering College got Most Innovative Award - south zone for registering maximum number of students in internshala and the award was given by AICTE and Internshala. The teaching faculty members are informed about the various fellowships available and they are encouraged to apply for the same. The centres of excellence focus primarily on applied research, product development, industrial training, development of multimedia resources and publication. The centers are equipped with advanced equipment and technology. The centers of excellence like Business Incubation Centre involves by writing proposals for funded projects, by getting the required equipment for the funded projects by monitoring and updating the equipments as and when required. Faculty members are primarily involved in research projects that are beneficial to the society. Faculty members are also encouraged to publish patents and research papers in the journals of reputation. The seed money support is given to faculty members of various department to carry out their research activities. The faculty members those who complete their Ph.D are given salary hike, the faculty those who go for conference abroad, their travel grant has been provided, the fund has been allocated for research lab investment. Those faculty members who publish patent are given elevation in their appraisal.

File Description	Document
Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View Document
Any additional information	View Document
URL of Policy document on promotion of research uploaded on website	View Document

3.1.2 The institution provides seed money to its teachers for research (average per year, INR in Lakhs)

Response: 44.44

3.1.2.1 The amount of seed money provided by institution to its faculty year-wise during the last five years (INR in lakhs).

2019-20	2018-19	2017-18	2016-17	2015-16
51.52827	47.627	44.14643	40.26234	38.63814

File Description	Document
Minutes of the relevant bodies of the Institution	View Document
List of teachers receiving grant and details of grant received	View Document
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View Document
Any additional information	View Document

3.1.3 Percentage of teachers awarded national / international fellowship for advanced studies/research during the last five years

Response: 0

3.1.3.1 The number of teachers awarded national / international fellowship for advanced studies / research year wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

File Description	Document
List of teachers and their international fellowship details	View Document
e-copies of the award letters of the teachers	View Document
Any additional information	View Document

3.2 Resource Mobilization for Research

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

Response: 130.14

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

2019-20	2018-19	2017-18	2016-17	2015-16
44.18575	5.70000	16.9732	19.43905	43.84684

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

3.2.2 Percentage of teachers having research projects during the last five years

Response: 9.3

3.2.2.1 Number of teachers having research projects during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
49	34	26	26	27

File Description	Document
Names of teachers having research projects	View Document
Any additional information	View Document
Link for additional information	View Document

3.2.3 Percentage of teachers recognised as research guides

Response: 3.12

3.2.3.1 Number of teachers recognized as research guides

Response: 11

File Description	Document
Upload copies of the letter of the university recognizing faculty as research guides	View Document
Any additional information	View Document
Link for additional information	View Document

3.2.4 Average percentage of departments having Research projects funded by government and non-government agencies during the last five years

Response: 58.29

3.2.4.1 Number of departments having Research projects funded by government and non-government agencies during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
10	7	6	5	6

3.2.4.2 Number of departments offering academic programmes

2019-20	2018-19	2017-18	2016-17	2015-16
14	14	10	10	10

File Description	Document
Supporting document from Funding Agency	View Document
List of research projects and funding details	View Document
Any additional information	View Document
Paste link to funding agency website	View Document

3.3 Innovation Ecosystem

3.3.1 Institution has created an eco system for innovations, creation and transfer of knowledge supported by dedicated centers for research, entrepreneurship, community orientation, Incubation etc.

Response:

The institution has a well-balanced eco-system for promoting the student talent through qualified and experienced faculty duly supported by excellent infrastructure facilities. The college offers Undergraduate, Postgraduate and PhD programmes thus creating an eco-system that enriches the young minds through various learning opportunities which are well supported. As a result of such eco-system, students co-work with the faculty in design and development of systems. There are many on-going funded research programmes where faculty continuously work. This provides an opportunity to the students to work on live projects and the same results in generation of research publications, patents and products.

The College nurture startup ideas and technology innovations from their idea stage by conducting boot camps, entrepreneurship awareness camps, Industrial visits, Hackathons, technical talks by startup mentors, awareness Programmes to sensitize and create awareness among students to build products/prototypes. Entrepreneurship Development Cell of the college makes an effort to galvanize and integrate a culture of innovation through a favorable entrepreneurial ecosystem to help budding entrepreneurs to perceive their skill and dream to start up their own enterprises. Paavai – Harita TVS Core Engineering Laboratory has been set up for research projects on product development and manufacturing technology. The research centre is installed with software like CATIA, V5, 3d VI and the experts in these software trains the faculty members and students and encouraged to take projects in these areas to make it as a product. The PEC has CNC involving vertical milling machine having latest features. The Paavai Business Incubation Centre is established with the support of Ministry of Micro, Small and Medium Enterprises (MSME) to promote creative and innovative ideas. Centre for Foreign Languages is established in PEC and it gives the knowledge of foreign languages such as Japanese, German, Mandarin and so on which gives scope for students to get employable in Foreign countries. CISCO, Paavai Soft Innovation Centre and Texas Instruments provides complete portfolio of software and technological innovations for flexibility and skill development for students and faculty members. Legal support like Company Registrations (Firm Registrations), IPR filing, Patenting, Partnership with Industry people will also be provided to the students.

Paavai Institutions is having membership with for the Spoken Tutorials – promoted by IIT Bombay Spoken Tutorial in association with Ministry of Human Resource Development (MHRD) as part of its Mission for Education – Information and Communications Technology (ICT). The various courses offered by the IIT

Bombay spoken tutorial can be taken by the students as well as faculty members. The college has got Infosys Campus connect partnership and Campus Connect aims to be a forum where some of the best practices at Infosys get shared with partnering colleges. Campus Connect looks at aligning the needs of partner colleges, its faculty and students, with those of the IT industry. Paavai is recognized as Advanced Partner Institute.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

3.3.2 Number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development during the last five years.

Response: 262

3.3.2.1 Total number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development year-wise during the last five years.

2019-20	2018-19	2017-18	2016-17	2015-16
56	55	40	57	54

File Description	Document
Report of the event	View Document
List of workshops/seminars during last 5 years	View Document
Any additional information	View Document

3.4 Research Publications and Awards

3.4.1 The Institution ensures implementation of its stated Code of Ethics for research through the following: 1. Inclusion of research ethics in the research methodology course work 2. Presence of Ethics committee 3. Plagiarism check through software 4. Research Advisory Committee

Response: D. 1 of the above

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

3.4.2 Number of Ph.D's registered per teacher (as per the data given w.r.t recognized Ph.D guides/supervisors provided at 3.2.3 metric) during the last five years**Response:** 1.55

3.4.2.1 How many Ph.Ds are registered within last 5 years

Response: 17

3.4.2.2 Number of teachers recognized as guides during the last five years

Response: 11

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	View Document
URL to the research page on HEI web site	View Document

3.4.3 Number of research papers per teachers in the Journals notified on UGC website during the last five years**Response:** 1.22

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

2019-20	2018-19	2017-18	2016-17	2015-16
112	94	72	61	85

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

3.4.4 Number of books and chapters in edited volumes / books published per teacher during the last five years**Response:** 0.23

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

2019-20	2018-19	2017-18	2016-17	2015-16
23	20	12	9	17

File Description	Document
List books and chapters in edited volumes / books published	View Document
Any additional information	View Document

3.4.5 Bibliometrics of the publications during the last five years based on average citation index in Scopus/ Web of Science or PubMed

Response: 5

File Description	Document
Bibliometrics of the publications during the last five years	View Document
Any additional information	View Document

3.4.6 Bibliometrics of the publications during the last five years based on Scopus/ Web of Science - h-index of the Institution

Response: 12.5

File Description	Document
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View Document
Any additional information	View Document

3.5 Consultancy

3.5.1 Revenue generated from consultancy and corporate training during the last five years (INR in Lakhs).

Response: 52.06

3.5.1.1 Total amount generated from consultancy and corporate training year-wise during the last five years (INR in lakhs).

2019-20	2018-19	2017-18	2016-17	2015-16
12.705	10.6768	9.46	9.285	9.9375

File Description	Document
List of consultants and revenue generated by them	View Document
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View Document
Any additional information	View Document

3.5.2 Total amount spent on developing facilities, training teachers and staff for undertaking consultancy during the last five years (INR in Lakhs).

Response: 18.95

3.5.2.1 Total amount spent on developing facilities, training teachers and staff for undertaking consultancy during the last five years (INR in Lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
5.042	4.19072	3.784	3.24975	2.679

File Description	Document
List of training programmes, teachers and staff trained for undertaking consultancy	View Document
List of facilities and staff available for undertaking consultancy	View Document
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View Document
Any additional information	View Document

3.6 Extension Activities

3.6.1 Extension activities are carried out in the neighbourhood community, sensitising students to social issues, for their holistic development, and impact thereof during the last five years

Response:

Extension activities from the society is with the objective of sensitizing social issues and service to neighbourhood community in students. The practice shapes the students community to emanate as a social responsible student. This extension activity is carried out since the inception of the college. Paavai engineering College has National Service Scheme (NSS) team with faculty head as NSS Programme officer, with his team members. The office bearers are selected from the student representative and nominated as President, Vice-president and secretary. The whole team consists of 100 NSS volunteers. From 2015 onwards there are two types of activities are organized, they are regular activities and special camp activities.

Regular activities of National Service Scheme of the college : Regular activities includes functional literacy and non- formal education, Treeplantation, Participate in Republic day parade, preservation and up keeping of trees, construction and repair of roads, painting of school walls, cleaning of village ponds and wells, health education and primary health care, first aid awareness, blood donation, AIDS awareness, advocating advanced agricultural practice, disaster management (Cyclones, floods), women empowerment, road safety, afforestation, blood donation, plastic eradication, and celebration of days of national importance and so on. Under the scheme Unnat Bharat Aayan (UBA), the college has adopted five villages and service is extended to promote education of the poor, repairing schools, awareness camp on health and hygiene, road safety awareness, cleaning of the village and temples

Special camp activities of National Service Scheme of the college: The special camp activities are conducted once in a year. The activities constitutes free medical camp, talk on cyber-crime and security, programme on women empowerment, awareness rally on disposal of plastic usage, Eye check-up camp, health awareness rally, Swach Bharat mission (Clean India Mission), awareness on following traffic rules, organic farming awareness rally, Yoga and natural medicine camp and so on. The practice is unique, since it bestows the best education to the students' community as it is participatory learning and experiential learning.

Impact of extension activities

The students are benefitted by these activities to develop their holistic personality. Many awards, recognition, and appreciations were achieved on account of their tireless service.

- Anna University Level Award - NSS Best Volunteer Award for four consecutive years (from 2015-2019)
- Best NSS Programme Officer Award from Anna University for the year 2018-2019
- Republic Day Parade Camp-, New Delhi-Our students have participated in Republic Day Parade for consecutive years (2017, 2018 and 2020)
- Two of our students have participated State Republic Day Parade-2019
- Two of our students Participated NSS National Integration Camp at Alagappa Chettiar College of Engineering & Technology, Karaikudi
- Our students have participated in Indian Student Parliament-2018 & 2019, Organized by MIT School of Government, MIT World Peace University, Pune
- Two of our students have participated in 22nd National Youth Festival Noida, Gujarat
- Three of our students participated in National youth development, held in Rajasthan

- 14 students Participated in National Youth Camp-2019 organised by National Institute of Culture and Education, Wardha, Maharastra

File Description	Document
Upload Any additional information	View Document
Paste link for additional information	View Document

3.6.2 Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government recognised bodies during last five years

Response: 128

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

2019-20	2018-19	2017-18	2016-17	2015-16
38	36	19	17	18

File Description	Document
Number of awards for extension activities in last 5 year	View Document
e-copy of the award letters	View Document
Any additional information	View Document

3.6.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years

Response: 186

3.6.3.1 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
32	47	38	40	29

File Description	Document
Reports of the event organized	View Document
Number of extension and outreach Programmes conducted with industry, community etc for the last five years	View Document
Any additional information	View Document

3.6.4 Average percentage of students participating in extension activities listed at 3.6.3 above during the last five years

Response: 238.87

3.6.4.1 Total number of students participating in extension activities listed at 3.6.3 above year-wise during the last five years.

2019-20	2018-19	2017-18	2016-17	2015-16
12264	13440	8775	3891	5481

File Description	Document
Reports of the event	View Document
Average percentage of students participating in extension activities with Govt or NGO etc	View Document
Any additional information	View Document

3.7 Collaboration

3.7.1 Number of Collaborative activities per year for research/ faculty exchange/ student exchange/ internship/ on –the-job training/ project work

Response: 0

3.7.1.1 Total number of Collaborative activities per year for research/ faculty exchange/ student exchange/ internship/ on –the-job training/ project work

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

File Description	Document
Number of Collaborative activities for research, faculty etc	View Document
Copies of collaboration	View Document
Any additional information	View Document

3.7.2 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: 209

3.7.2.1 Number of functional MoUs with institutions of national, international importance, other Institutions, industries, corporate houses etc. year wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
62	47	42	33	25

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 Institutions etc during the last five years	View Document
Any additional information	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

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

Response:

Paavai Engineering College is committed to contribute for the students community, a quality education through classroom teaching, practical training, and by providing excellent infrastructure and experience. The college fulfills all the norms specified by the statutory bodies in terms of land requirement, Academic, administrative and amenities area. Paavai Engineering College has a land area of 15.75 acres. The college houses spacious and sufficient classrooms, seminar halls, laboratories and state of the art auditorium. The buildings in the campus are thermally, visually and acoustically comfortable; energy, material and water efficient; safe and secure; easy to maintain and operate. The entire campus is under CCTV surveillance for safety and security purpose.

Physical Facilities

- Paavai Engineering College (PEC) has a land area of 15.75 acres with a built-up area of 41661 sq.m.

Classrooms

- PEC has 80 class rooms (5616.19sq.m) 6 Drawing halls (578.26 sq.m) and 5 Seminar halls (1815.8sq.m).
- A total number of 72 classrooms are ICT enabled, equipped with LCD projectors,

Personal computers, Internet connectivity.

Laboratories

- PEC has 136 UG and PG laboratory (8011.86 sq.m), 2 Computer Centre's (465.53 sq.m), 2 Workshops (416.50sq.m), Language laboratory (66 sq.m), each of them equipped with state of the art laboratory equipment, these labs are also utilized for students to do their projects.
- All the laboratories are equipped with First-Aid Box and fire extinguishers.
- The College has 5 seminar Halls with ICT enabled, equipped with LCD projectors, personal computers, internet connectivity and audio facilities. These halls are regularly used for conducting state and national level seminars at the college. The students of post graduate departments are regularly promoted for active involvement in paper presentations, group discussions.

Computing Equipment

- A total number of 1125 computers, 75 printers and scanners are available.
- Available band width of internet connection in PEC is 1Gbps with 189 secured Wi-Fi connectivity access points.
- PEC has hosted alive private cloud (PEC Cloud) which is designed, developed, deployed and

managed completely by in-house dedicated team.

Library

- Library is equipped with state-of-the-art facilities where the students and the faculty can make use of resources available. The overall environment of library is user friendly. Internet facility is provided to peruse e-journals and books. The library is computerized by a software called **AutoLib Software**.
- The built-up area of Library is 1152.03 sq.m and it can accommodate 120 students. It has 46310 volumes, 11225 titles.

The library utilized by the students and faculty members even after the evening working hours effectively to carry out the research requirements.

File Description	Document
Upload Any additional information	View Document
Paste link for additional information	View Document

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

Response:

Paavai Engineering College (PEC) has well equipped sports facilities to cater the sports and games requirement of the students. Every year around 500 students participate in all sports and games event. PEC regularly participates in State Association tournaments, Open tournaments and ANNA University zonal tournaments, Inter zonal tournaments, Intra and Inter department tournaments and Intra mural tournaments. Paavai has been awarded “Champion of Champions Trophy” consecutively for the past six years in the Anna University Sports and Games Competitions.

1. **Sports:** The total Play area of Paavai engineering College is **5.35** acres.

A. Outdoor games:

- 200m standard athletic track with 6 lanes
- Hockey field-1
- Kho-kho court-2
- 55m radius cricket field-1
- Volley ball court-3
- Ball Badminton court-3
- Hand ball court-2
- Kabadi court-4

The user rate is more than 300 students per day.

Area of outdoor games: 158,949 sq.ft

Sports complex

- Multipurpose basketball court with fencing & floodlight facilities

The **user rate** is more than **40 students per day**.

Total area of sports complex is 6006 sq.ft

B. Indoor games

- Table tennis- 2 Nos.
- Carom board-10 Nos.
- Chess board- 10 Nos.
- Badminton- 3 Nos.

The **user rate** is more than **50 students per day**.

Total area of the indoor games is 30138 sq.ft

C. Boys Hostel Playground

- Badminton court - 1 Nos.
- Gym of 6727 sq.ft
- Volley Ball- 2Nos.

The **user rate** is more than **100 students per day**.

Total area of playground including gym facility is 18744 sq.ft

D. Girls Hostel Playground

- Basketball court with flood light-1 Nos.
- Volleyball court with flood light-1 Nos.
- Throw-ball court with flood light-1 Nos
- Badminton court (semi Indoor) - 1 Nos.
- Gym of 6727 Sq.ft

The **user rate** is more than **150 students per day**.

Total area of Girls hostel play ground is 18,023 sq.ft.

II. Gymnasium

- Multipurpose Gymnasium facilities are available for boys and girls.
- The gymnasium consist of Rotating ring-2 Nos, Pull up Bar-2 Nos, Pull up rings-2 Nos, Rope climb- 2 Nos, Double bar-2 Nos.

- Weight lifting and Power lifting sets are available.

The **user rate** is more than 40 **students/day**.

Total area of gymnasium facilities is 5381.96 sq.ft

III. Yoga Centre

- A mass hall of 92.9 sq.m can accommodate **30** students per batch.
- Yoga practice is facilitated in boy's and girl's hostel with area of 10763 and 1199 sq.m
- One qualified yoga instructor, 60 carpets and sound system are made available.

Auditorium: The College is having a modern, well equipped acoustic AC auditorium for conducting workshop and seminars. The seating capacity of the hall is about 2000.

Cultural Activities:

The college has gained a special place for itself in the field of cultural activities. The students organize & participate in many cultural activities like group dance, skits, MIME, Debate, Street Play, JAM, Treasure Hunt, Fireless cooking, Fashion show, Face Painting, Drawing etc., during a cultural fest titled ASTRA.

File Description	Document
Upload any additional information	View Document
Geotagged pictures	View Document
Paste 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. (Data for the latest completed academic year)

Response: 90.59

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 77

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format	View Document
Paste link for additional information	View Document

4.1.4 Average percentage of expenditure for infrastructure augmentation excluding salary during the last five years (INR in Lakhs)

Response: 23.46

4.1.4.1 Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
80.25891	158.32408	166.11859	337.93131	372.83829

File Description	Document
Upload Details of Expenditure , excluding salary during the last five years	View Document
Upload audited utilization statements	View Document
Upload any additional information	View Document
Link for 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 AUTOLIB software

The library plays a very significant role in supporting academic programmes of PEC. It provides access to information resources like books, journals, newspapers and other resources such as e-books, e-journals, Videos, CDs and DVDs which furthers the knowledge and thought process of the users.

Library has 11225 titles and 46310 volumes with a built-up area of 1152.03 sq.m and 120 students can use the facilities at a time. All departments have separate department libraries and each Department library is managed by a faculty-in-charge.

Library Automation:

The Library has developed an excellent collection of books, journals and non-book material in science, engineering, technology, humanities, social sciences and management. It maintains separate collections of Reference Books, Bound volumes of journals, Thesis, Compact Discs and Microforms. The library is using **Autolib** Software Systems OPAC (Online Public Access Catalogue), wherein the users can search the Library Online Catalogue by Author's name, title, subject, and keywords available on the campus LAN.

Version 5.1

Year of Automation: 2007**Library Networking: [Intranet and Internet]**

The Central Library is fully automated with **Autolib** Software Systems (Version 5.1) used for Circulation, Procurement, Online Public Access Catalogue (OPAC) and Project Reports. All the library documents are bar-coded and books are issued to users by reading the barcode of the document. The holdings include the books and Journals, syllabus, question papers and Project reports. The users of the Library can access publications of all major publishers like Elsevier Science Direct - AICTE Engineering + Computer Science ejournals package etc. The users can access around 1456 E-books and 297 International journals. The working hour is from 08.30am-09.00pm on all working days. On Sunday it is from 09.00 am-01.00 pm. On request from students/faculty/Research scholars library is kept open 24X7 for utilization.

PERIODICAL DETAILS:

National Journals	- 144
International Journal	- 126
Magazine	- 14
Online Journal Science ejournals package (297)	- Elsevier Science Direct - AICTE Engineering + Computer
Membership	- DELNET

Sections:

Stack room	
Circulation	- Using Autolib Library Software
Reading Hall	- seating capacity 120
Back volumes	- 3669
Non-book material	- 1126 (CD & DVD)
Digital Library	- 20 PC's with Internet Facilities
Project Reports	- 2865
Reference Corner	
New Arrivals Corner	
Periodicals Corner	

News paper Corner

OPAC : (Online Public Access Catalogue)

Students by themselves can search books with help of OPAC system efficiently and it is being established all time during library working hours. At any difficult case in using OPAC system our library staffs are there to guide the students.

Dailies:

Tamil	-	4
English	-	2
Employment News	-	2
Reprographic Facility	-	1

NPTEL VIDEOS:

UG (14 branches)	-	3397
PG (7 branches)	-	492

Library facilities:

- Central Library is housed in a sprawling (1152.03 Sq. M.)
- Holdings of the library books are computerized and barcoded.
- Uninterrupted internet connectivity.
- Rich collection of Books and Journals. A department wise break-up of holdings is given in the table below.
- Addition of large number of books during each semester.
- A substantial collection of CD-ROMs / DVDs relating to books, etc.
- Provision of reprographic service.

File Description	Document
Upload any additional information	View Document
Paste Link for additional information	View Document

4.2.2 Institution has access to the following: 1. e-journals 2. e-ShodhSindhu 3. Shodhganga Membership 4. e-books 5. Databases 6. Remote access to e-resources

Response: A. Any 4 or more of the above

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format	View Document
Details of subscriptions like e-journals, e-books , e-ShodhSindhu, Shodhganga Membership etc	View Document

4.2.3 Average annual expenditure for purchase of books/ e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)

Response: 13.43

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

2019-20	2018-19	2017-18	2016-17	2015-16
14.76993	14.33777	13.58390	13.17630	11.30195

File Description	Document
Details of annual expenditure for purchase of and subscription to journals/e-journals during the last five years	View Document
Audited statements of accounts	View Document
Any additional information	View Document

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

Response: 45.05

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

Response: 1803

File Description	Document
Details of library usage by teachers and students	View Document
Any additional information	View Document

4.3 IT Infrastructure

4.3.1 Institution has an IT policy covering wi-fi, cyber security, etc., and allocated budget for updating its IT facilities

Response:

The institution provides IT enabled teaching-learning environment in the campus round the clock. Leased web connectivity is in place to cater to all students and staff through Wi Fi (nearly 1000 nodes) and physical connectivity. Continuous up gradation of technology and the infrastructure is one of the quality policies of the institution.

At the beginning of the academic year need - assessment for replacement / up gradation / addition of the existing infrastructure is carried out based on the suggestions from BOS members, Heads of the departments, lab technicians and system administrator after reviewing course requirements, computer – student ratio, budget constraints , working condition of the existing equipment and also students grievances. The institution ensures an optimal deployment of infrastructure is ensured through conducting workshops/awareness programs/training programs for faculty on the use of new technology. Effective utilization of infrastructure is ensured through appointment of adequate and well qualified lab technicians/system administrator. Renewal of AMC is done at the beginning of the academic year for the deployed Software applications, UPS and Generators. The institute has always been reviewing the current needs and accordingly the internet bandwidth is upgraded from time to time. The usage of internet is protected with firewall enablement. The institute has total 1125 computers.

Core layer switches in the buildings are connected with the Optical Fiber Ring Network (1.5Km Ring). This core switching is further extended to Distributed Switching for departments. Where 100/1000 Mbps (Gigabit Switches) are installed. As per the requirements of access point 10/100 (Megabits) or 100/1000 (Gigabit Switches) are used.

Wi-Fi facility: IT department extend the complete support to the students. It is made available by setting and installing the Wi-Fi zones at various locations such as Reading halls, Hostels, Department corridors and at the Green lawn area. Staff and Students can access this facility on their Laptops by registering themselves with the IT Team. The institute has currently state-of-art Reliance Jio- Wi-Fi access points to provide the Wi-Fi internet access through Wi-Fi zones

Intercom Facility: Instead of Intercom facility, all the Heads of Departments, Deans, Office incharges, Accounts head, Audio Visual Head, Physical Director, NSS Officer, Hostel incharges etc., are given a mobile phone with Closed User Group(CUG) Numbers and the bills are paid by the institution.

Hardware infrastructure:

· Computers (1125 no's),

· Servers (5 no's),

Internet band width:1 Gbps

· Internet connection ratio:1:1

- Projectors
 - LED TV
- Printers & Scanners
- LAN (1000 nodes) · Wi-Fi network 189 access points.
- Active and passive components for networking
- Core Switch
- Firewall Security System, internet applications

Audio-video equipments

25 Amplifiers with 150 speakers

Surrounded speakers for auditorium-5

15 mixers and 50 mikes

TV in Kalam chamber (AV theatre) - 1

LCD projectors for auditorium-1

TV in auditorium-6

10 DVD players

111 CCTV camera with 45 DVR backup

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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

Response: 4:1

File Description	Document
Upload any additional information	View Document
Student - computer ratio	View Document

4.3.3 Bandwidth of internet connection in the Institution.

Response: 750 MBPS

File Description	Document
Upload any additional information	View Document
Details of available bandwidth of internet connection in the Institution	View Document

4.3.4 Institution has the following Facilities for e-content development

1. Media centre
2. Audio visual centre
3. Lecture Capturing System(LCS)
4. Mixing equipments and softwares for editing

Response: C. 2 of the above

File Description	Document
Upload Additional information	View Document
Institutional data in prescribed format	View Document
Link for Additional information	View Document

4.4 Maintenance of Campus Infrastructure

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

Response: 1.77

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)

2019-20	2018-19	2017-18	2016-17	2015-16
25.49815	22.05652	12.50954	12.90047	13.70736

File Description	Document
Upload any additional information	View Document
Details about assigned budget and expenditure on physical facilities and academic facilities	View Document
Audited statements of accounts	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:

Our Institution has dedicated systems and procedures for maintaining and utilizing physical infrastructures like class rooms, administrative buildings, laboratories, sports facilities and other physical assets including the services like water supply and electric supply. These activities are headed by Estate officers who lead a team of dedicated engineers, technical staff and other supporting staff under the categories of civil, mechanical and electrical maintenance works. This team also looks after the provisioning and maintenance of furniture in the buildings, class rooms and laboratories. Complaint on maintenance can be lodged through emails as well as manually. The mail ids to which the complaints can be sent are displayed throughout the campus in prominent locations. Usage of central facilities like seminar halls and auditorium is controlled by Audio visual department.

Purchase of equipment (other than computers) including program specific software and hardware and their maintenance in laboratories are carried out by the respective department to which they belong. The entire computer infrastructure including purchase, maintenance and disposal is vested with the team formed by Principal, computer maintenance department and System admin and other technical staff. This team looks after the hardware, general purpose software and networking requirement of the entire campus. Allotment of department wise classroom block and individual classrooms for the students are framed by the team headed by the Principal and head of the departments respectively. Readiness of Projector screens in classrooms, ICT board with stylus checked by Audio visual dept. Arrangement/Repair of student's Desks and teacher's desks/tables would be taken care by department furniture in charges.

Routine services or maintenance will be done by house keepers. Students and teachers are responsible for keeping the classroom clean and tidy. Maintaining the teaching equipment inventory list and calibration schedule and verifying calibrations/performance checks in each laboratory will be taken care by the lab in charge. Teaching equipment have an Annual Maintenance Contract (AMC) from the authorized company. The AMC shall be revised and renewed yearly carried out by the lab instructors. Equipment Calibration/Maintenance log has to be filled and signed and kept in file in HoD office and a copy in the lab in-charges. Deficiency / updation on hardware / software will bring to the notice of HoD by the teaching assistants and lab technicians. Proper forms like equipment list has to be maintained for conducting labs both inter and intra department and Housekeeping register has to be maintained for laboratories by the lab technician and lab co-ordinator.

Utilization of Physical Facilities:

The Optimum utilization of classrooms is ensured through the functioning of the college from 09.00 a.m. to 05.00 p.m. Timetable committee frames the general timetable to accommodate all the students in their respective theory or practical classes without any overlapping.

Utilization of Academic Facilities:

The college Central library works for nine hours a day. Students can access library resources on all working days. In addition, each department is equipped with a department library. It has an excellent collection of books, journals, and documents in science, engineering, technology, humanities, social sciences, management and self-development. It has a plethora of dictionaries, encyclopedias, compendiums, reference books, standards, bound volumes of journals, technical reports, theses, and other resource materials in digital form – video cassettes, compact discs, and microfilms.

The Central Library and Department Libraries are home for a large collection of project cum research reports by students of M.E., MBA, and MCA programs. Separate laboratory assistants maintain the computers in these laboratories without any overlapping. Besides this, laboratories are used for online examination, pooled placement events. The college is a venue for Competitive examinations conducted by both central and state Governments.

Sports and Ground Facilities:

Playgrounds and play courts are fully utilized throughout the year. It is around 5 acres land. We conduct many district, state, national level competitions sponsored by the Anna University. Besides, NSS use ground facilities for their training. A large playground for basketball court, tennis court, volley ball court, athlete – track and field, indoor stadium, yoga floor are available. Sports persons are constantly encouraged to participate in competitive events by way of granting sports - scholarships, cash prizes and waiving of fees, Annual sports events are conducted for students and staff members separately. Cultural activities are conducted for college level and department level every year.

Electrical and Water Sources:

Electrical Maintenance Power supply is maintained by regular staff through proper system captive Gensets as backup for 24 hours. A Kirloskar Make power generator is installed in the campus to handle the occasional power shut down, is under AMC by M/S Network Diesels, authorized Dealer of Kirloskar. The electricians of the college are maintaining Rainwater harvesting facility, pumping stations and Sewage treatment plant of the college.

Operational Annual Maintenance Contracts:

Major instruments, Computers, Fire extinguishers, Air conditioners are maintained through respective Annual Maintenance Contracts (AMC). Interim repair works are also periodically carried out. Annual agreements have been made for running Canteen and Xerox Centre, Parking Facility and well organized.

A General work plan has been framed for the optimum utilization of the academic resources:

1. Preparation of general time table by common committee.
2. Preparation of departmental time table based on the structure given in general time table.

3. Maintenance of class rooms, laboratories, instruments by the laboratory assistants under the supervision of respective department HoD and staff members.

Maintenance Policy:

1. Major equipments are covered under renewable AMC with the respective companies.
2. Need based repair and services are periodically carried out.
3. Three system administrators maintain networking.

Cleanliness Policy:

The general cleaning work is carried out by house keepers supervised by manager and monitored by staff in charge of each department nominated for the purpose. Wash rooms and rest rooms are well maintained. Dustbins are placed in every floor. Medical centre with essential medicines and facilities are available. One doctor and one attendant are always available in the clinic. Emergency cases are attended to immediately with utmost care.

Garden Maintenance:

Tree plantation and garden maintenance are done by the gardener appointed by the Institute.

File Description	Document
Upload any additional information	View Document
Paste 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 last five years

Response: 94.54

5.1.1.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2019-20	2018-19	2017-18	2016-17	2015-16
3616	3310	3779	3654	3161

File Description	Document
upload self attested letter with the list of students sanctioned scholarships	View Document
Upload any additional information	View Document
Institutional data in prescribed format	View Document
Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years	View Document

5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution and non-government agencies during the last five years

Response: 0

5.1.2.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

File Description	Document
Upload any additional information	View Document
Number of students benefited by scholarships and freeships besides government schemes in last 5 years	View Document
Institutional data in prescribed format	View Document

5.1.3 Following Capacity development and skills enhancement activities are organised for improving students capability 1. Soft skills 2. Language and communication skills 3. Life skills (Yoga, physical fitness, health and hygiene) 4. Awareness of trends in technology

Response: C. 2 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 students benefited by career counseling and guidance for competitive examinations as offered by the Institution during the last five years.

Response: 60.18

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

2019-20	2018-19	2017-18	2016-17	2015-16
2601	2240	1324	2901	2076

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

5.1.5 The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases 1. Implementation of guidelines of statutory/regulatory bodies

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

Response: B. 3 of the above

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

5.2 Student Progression

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

Response: 79.06

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

2019-20	2018-19	2017-18	2016-17	2015-16
794	835	694	690	723

File Description	Document
Upload any additional information	View 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: 5.57

5.2.2.1 Number of outgoing student progressing to higher education.

Response: 54

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

5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)

Response: 97.19

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

2019-20	2018-19	2017-18	2016-17	2015-16
102	243	143	144	102

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

2019-20	2018-19	2017-18	2016-17	2015-16
107	249	146	147	105

File Description	Document
Upload supporting data for student/alumni	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 won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.

Response: 1600

5.3.1.1 Number of awards/medals won by students for outstanding performance in sports / cultural activities at inter-university / state / national / international events (award for a team event should be counted as one) year - wise during the last five years.

2019-20	2018-19	2017-18	2016-17	2015-16
303	282	321	313	381

File Description	Document
Number of awards/medals for outstanding performance in sports/ cultural activities at inter-university / state / national / international level during the last five years	View Document
e-copies of award letters and certificates	View Document
Any additional information	View Document

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

Response:

Yes Our College has an active student committees and clubs with representation from all the programmes. It is a body of students, for the students and works to ensure that every student gets the best possible college experience. The student council helps the students to actively participate in the development of their career, personality and organizational skills through interactive programs with the faculty, administration and society. The goal of the student council is to provide a common platform to students for showcasing their talents and skills through co-curricular and extra-curricular activities. Students are given complete freedom to discuss and express their genuine views on any point which is taken for the discussion regarding academics and non-academics matters. Therefore, various committees are framed for the smooth and efficient functioning of various events and activities.

COMMITTEES OF THE COLLEGE:

There are six Committees of our Institution include, Discipline committee, Health and hygiene committee, Hostel committee, Event management committee, Cultural committee, and Gardening committee. The president and vice-president of each committee were inducted along with student volunteers who initiate the execution of roles of that particular committee. The members of the committees along with their heads, framed the objectives of their particular committee, the roles and responsibilities of the committee were determined, and ready to execute the task allotted. The review of the committee is being conducted periodically. The committees will have complete autonomy in

the performance of their tasks. In order to improve the work efficiency of the various committees, the incharge faculty will make allocations of clerical, infrastructural and supporting staff assistance if and whenever required by the committees.

CLASS COMMITTEE:

In Class Committee Meeting, Students are held responsible in providing the feedback about teaching –learning process in class committee meeting. Six Students belonging to below average, average and above average category are the members of the class committee. Apart from giving their feedback the students are also involved in the following association bodies of the institution.

DEPARTMENT ASSOCIATION:

Department Association – Every department in our institution have their own association through which the students are allowed to organize several events like workshop, seminars, technical contest, symposiums, conference, etc. The students were given responsibility as secretary, joint secretary and treasurer to organize various department functions. Students act as office bearers of the association. In the Board of Studies, Students play a significant role as a stakeholder to provide curriculum feedback in order to modify the syllabi for the upcoming syllabus.

CLUBS OF THE COLLEGE:

There are various clubs where Students participate and organize various activities in the following clubs: Trekking club, Environmental club, Aura and Sparism club, Energy club, Software Development and Information Management club, Coders club, English club, Maths forum, Health and Hygiene club, Velanmandram club, PICO Red club, Electronics club, NSS, YRC to develop their technical and soft skills. Thus our institution moulds the young students to become a socially responsible citizen.

File Description	Document
Upload any additional information	View Document
Paste link for Additional Information	View Document

5.3.3 Average number of sports and cultural events / competitions organised by the institution per year

Response: 114.8

5.3.3.1 Number of sports and cultural events / competitions organised by the institution year - wise during the last five years.

2019-20	2018-19	2017-18	2016-17	2015-16
106	114	102	130	122

File Description	Document
Upload any additional information	View Document
Report of the event	View Document
Number of sports and cultural events / 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 other support services.

Response:

Yes, the Alumni association of Paavai Engineering College is functioning since 2005 which has been registered in the year 2021 under the act of Tamil Nadu. Around 10000 alumni students are registered in the Association. The Alumni Association works as an interface for maintaining the relationship with the alumni and to involve them in the development and growth of the institution. The main aim of the Association is to maintain the link between the college and Alumni and share the details of their employment and achievements. It was also formed with a view to keep the silken threads of the attachments between the old students and the Institution. The association endeavors to strengthen the ties among its alumni by addressing the concerns of members with a view to learn and adapt to changes that are necessary for the student beneficiary.

.Objectives of the Association are:

1. To maintain the connection of the alumni with the Alma-matter. 2. To foster the relationship between the students of the past and present time of the institution. 3. To keep the old students informed of the growth and development of the institution. 4. To exchange professional knowledge, organize technical conferences, seminars, workshops and training courses. 5. To encourage and enhance the Technical and general Knowledge of its members (based on the profession) and to increase the participation of Alumni. 6. To enhance the benevolent nature of the alumni through Nation building activities.

Contribution of alumni: The alumni contributed for the construction of Abdul kalam statue near at rook corner, nature square, and pyramid of grace and water doctor in the college. Apart from this books are contributed the departments as alumni contribution. The Alumni are helping the final year students in their project work and also about the prospective employment opportunities in their respective organizations in India and abroad. A day is being allotted for alumni every year as a calendar event by the Management to bring the alumni of various departments to celebrate their memories with college and contribute back wisely to the college through support in placement, career guidance for the present students. The alumni members meet for an Annual get-together every year and all the Alumni were taken around the campus. Based on the convenience of the alumni, the special talk, guest lecture, career guidance, workshop and seminars were organized by the respective departments to bridge the space between the corporate end the institution. It was recorded under, 'Alumni series' of the college. Our alumni represent various

committees/cells of the college like IQAC composition of the college, Board of studies of the departments which reveal the active participation of our alumni in holistic development of the college. It is our tradition to invite our alumni for important programs of the college viz. Astra-cultural extravaganza.

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

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

Response: A. ? 15 Lakhs

File Description	Document
Any additional information	View Document
Link for 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: To strive to be a globally model Institution all set for taking 'lead-role' in grooming the younger generation socially responsible and professionally competent to face the challenges ahead. Mission: • To provide goal- oriented, quality – based and value – added education through state – of – the – art technology on a par with international standards. • To promote nation – building activities in science, technology, humanities and management through research • To create and sustain a community of learning that sticks on to social, ethical, ecological, cultural and economic upliftment. The governance of the Institution is reflective of an effective leadership Paavai Engineering College being an Autonomous institution is headed by “The Chairman of Paavai Institutions, Shri.CA.N.V.Natarajan” who is a visionary and a person far ahead of time, having strong belief in the words of the eminent American educator Theodore Hesburgh that “the very essence of leadership that you have to have is vision. You can't blow an uncertain trumpet”. Under his eminent leadership, the trust keeps sailing successfully and smoothly. The decisions regarding governance of the institution are taken by the Chairman Shri.CA.N.V.Natarajan who is also the Chairman of Governing Council of the Institution. The Chairman has constituted an Apex committee consisting of Trustee, UGC Nominee, University Nominee, State Government Nominee, Principal, Educationalist, Industrialist, Dean Academics, Controller of Examinations, and Heads of various departments to meet and to review various aspects of Academics and Administration and recommend to the Chairman for approval. Nature of Governance: The Management, Principal and faculty work in synergy for implementing its vision, mission and quality policy. The leadership provides road map for achieving excellence in technical education and the academic and administrative processes are geared towards realizing this vision. Effective Leadership is to set a strategy and display a great vision for the future, mobilize the people, make the tough decisions, inspire, motivate and communicate with clarity, to maintain integrity and being assertive. It is reflected through a strategic change that is principally concerned with the people of the organization and the activities that they perform. They often work in groups or departments and carries out tactical tasks with a common interest or objective - a strategic goal. The Leaders deploy vision and values to stakeholders through meetings, induction programs, administrative and academic systems involving well documented policies, procedures and systems developed through Internal Quality Assurance System (NAAC, NBA). Faculty members are deputed to prove their effective leadership and management at the Institutional Level and Department Level. All the staff members are involved in all the activities in the College. The senior staff members are appointed as Conveners of various committees and are given full autonomy in decision making. In this way, the College grooms leaders at higher levels, teaching staff, non-teaching staff and students. Our leadership ensures the compliance of academic and administrative processes and procedures. Continual improvement is ensured through regular systematic audits, checks, and monitoring by well-defined quality assurance method.

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

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

Response:

Paavai Engineering College strongly believes that the effective governance is essential for the growth and progress of the Institution. . The objective of this decentralization of the governance and delegating responsibilities to various senior functionaries and heads of the departments promotes inclusiveness and participatory management style of functioning. As an integral part of the governance, the management delegated power (both administrative and academic activities) to the Principal and academic heads for smooth running of the institutional activities. Decentralization should be seen as a means of improving the efficiency of the system and its quality. There are several committees, both statutory and non-statutory, to administer and effectively govern the institute which shows the participative involvement of all faculty for the welfare of the Institution. The statutory committee looks after in overall development and growth, policy decisions, financial and regulations. Various non-statutory committees constituted for purpose of monitoring the policies and rule and regulations of the institutes.

The Principal who is the Head of the institution is given sufficient freedom to execute the mission and vision of the institution. The academic responsibilities are fairly delegated to the members of the various committees. Regular staff meetings are held and the responsibilities are communicated to the faculty members

Case Study: Decentralization and participative management through Placement activities

The placement and training cell of the college functions very effectively to make all the students employable. Paavai Training and Placement Cell is headed by a Chief Placement Officer, with a Professional team of Aptitude, Technical Trainers and Placement Officers. For each of the Academic Department, there is a Placement Co-ordinator – to take care of the ongoing Communication, Personality Development and Aptitude Training activities. The placement Co-ordinator of each department communicates the information to the student Co-ordinator of the respective department, who in turn communicate to all the students of their respective departments. The team of Placement Officers interfaces with the Corporate Organizations for their on-campus Visit to Paavai Campus for hiring. The Placement Cell operates round the year to facilitate contacts between hiring Companies and Paavai Passouts/Graduates. Various activities are carried out to make every one of the Paavai Students employable by meeting the requirements of the Corporates. The activities are

- providing adequate employment related information, at periodic intervals
- Imparting personality development programs to enhance the soft skills of the Students.
- Conducting Mock and Preparatory Tests to take up for Employment
- Ensuring training for students during vacations, by proven and reputed firms - both on General Aptitude and Technical Aptitude
- Arranging ON / OFF campus interviews, during the odd semester of final year of study.

- Whatsapp Groups are created for communication to students regarding campus hiring companies

Through decentralized and participative management of Principal, Chief placement officer, placement officers, trainers, department placement co-ordinators and student co-ordinators, the placement records have been improved consistently and a good track record is maintained. This has also gained interest and momentum among the students. The tier-I and Tier-II companies are invited.

File Description	Document
Any additional information	View Document
Link for strategic plan and deployment documents on the website	View Document
Link for additional information	View Document

6.2 Strategy Development and Deployment

6.2.1 The institutional Strategic / Perspective plan is effectively deployed

Response:

Strategic planning of Paavai Engineering College is often proposed as a key tool for a more rational and systematic approach to bring about the necessary changes for greater internationalization in institutional direction and daily operations. Our College believes in the integration of teaching with research, in the freedom and responsibilities that staff members, in acting with integrity, and the value of an inclusive and diverse community. The core competencies, strategic challenges and strategic advantages are determined primarily through the interaction with faculty members through Department meetings and by means of exit survey, alumni survey, employers survey. The Governing Council and Department Advisory Committee are two main important academic bodies of the institution. Meetings are held frequently while planning programs and discussing key issues in reaching the vision and mission of the institution.

The institutional Strategic / Perspective plan is effectively deployed

To be one of the best institutions offering technological education to student community, suite the current societal needs and to fulfill the technological requirements of the industry and society, to produce skilled engineering professionals, MoU's with foreign Universities and industries are carried out for their progression. During the academic year 2018-2019, "A Two Days International Indo-Taiwan Summit" was organized to emphasize on global mobility and talent cultivation for higher education. This summit served as a platform for students to exhibit their ideas for real world societal issues with their innovative projects and showcased their talents. Around 40 projects were displayed and professors from different foreign Universities were the juries. 13 best projects were selected and students were also given scholarship to pursue their higher studies in foreign Universities. 10 students underwent Internship in Yuan-Ze University, Taiwan in 2018-2019. In academic year, 2019-2020 eight students underwent summer training in Asia University. During 2020-2021 also, our students were given opportunity to pursue their internship

and MS, but due to pandemic situations they are not able to continue it. In spite of this, our students are regularly attending webinars from Educare, Taiwan and there is an improvement of our students pursuing higher education in other universities. Paavai Engineering College has also organized a webinar dated 28.02.2021 for students of CSE,IT,ECE and EEE along with Educare, Taiwan. Through these types of enhancement programmes, they were also given an opportunity to pursue their higher studies, for their knowledge transfer and skill up gradation.. Our students are nominated for Academic Excellence award by these Universities. For enrichment of communication skills of the students to pursue the higher studies in foreign Universities, Business English Certification, IELTS Partnership programme, Centre for Japanese, French, German and Mandarin languages are also catered to the students.

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

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

Response:

The College has a well-defined organizational structure which clearly shows the people responsible for various tasks and the levels of supervision. The slogan of our institution is “Prosper, Excel, conquer”. It is always avidly maintained. The college believes and strives for excellence through various methods of professionalism. To achieve our vision and mission we have an organization structure that comprises of Chairman - Member of Governing body, Members, Director, Principal, Deans, Controller of Examinations, Heads of various departments, Faculty members and students. The Chairman, Director takes care of Policy making, Financial matters, Recruitments and approving annual budget. They create quality benchmarks/parameters for various academic and administrative activities of the institution. Principal-Facilitates the creation of a learner-centric environment conducive to quality education and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process, promoting research activity within the college, collaborate with other academic institutes and industry, create a conducive environment in order to develop entrepreneurship. Deans - Looks after various domains common to the whole institution such as Academics, Faculty Development, and Student Affairs. Suggest academic rules and regulations for various programs offered. Controller of Examinations - To ensure the examinations are conducted properly, sets question papers as per Blooms taxonomy, conduct the examinations as per the schedule, and ensure the evaluation is done meticulously. The organization has various departments based on specializations which are headed by respective HoDs. Heads of Departments - To prepare, implement and execute a department strategic plan, plan and execute various activities to be conducted in a year, co-ordinate among the faculty members in the departments to apply for various

schemes/grants to AICTE and other funding agencies, ensuring discipline amongst the students, facilitating and supervising the activities for the faculty. Faculty - To develop the student-teacher relationship bond, suggest methodologies for innovative teaching and evaluation techniques, assisting the students in their learning process, addressing and solving their various issues, flourishing relationship with parents and organizing meetings for them, organizing special coaching for slow learners. In addition, to maintain the harmony and satisfaction levels of all the stakeholders the institution has an effective Grievance Redressal committee. Our Institution has a quality policy. It is developed, driven, deployed and reviewed through the feedback gathered from student, parents, employees and the public about knowledge, skills and values which are essential for achieving global competency. It is through participative process, the quality policy is built. For making the institution, as an excellent learning center where social and ethical values are imparted so that the students are competent enough to meet the needs of industry and society, the policy statements and action plans are designed to fulfill the requirements of the mission.

File Description	Document
Any additional information	View Document
Link to Organogram of the Institution webpage	View Document
Link for additional information	View Document

6.2.3 Implementation of e-governance in areas of operation

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

Response: A. All of the above

File Description	Document
Screen shots of user interfaces	View Document
Institutional data in prescribed format	View Document
ERP (Enterprise Resource Planning) Document	View 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 and avenues for career development/ progression

Response:**WELFARE SCHEME FOR TEACHING STAFF****Medical Facility**

- Paavai Medical Centre with part time doctor is available on the campus.
- Eye check up camp is arranged yearly once on the campus.

Group insurance scheme

The group insurance scheme with life cover and accident cover up to 1 Lakh has been provided to all the teaching staff

Free Bus Facility

The teaching staff avail the bus facility at free of cost for their travel to the college.

Fees Concession

15% scholarship in the tuition fees for the wards of the staff members who seek admission in our engineering college and also providing scholarship for the wards of the staff members who seek admission in our Paavai Vidhyashram School based on the experience in Paavai institutions.

Free Hostel Facility

The teaching and non-teaching staff can stay in the hostel free of cost based on the request and proper application.

Special Leave

- 06 months Maternity leave for female faculty members.
- 10 days Special Leave for Marriage Occasion.
- 12 days Causal leave, 24 days Vacation leave and 24 days on duty.

TA/Registration fee

The registration fees for Conference/Workshop/Seminar are paid by the college based on the proper application and request to the principal through the Head of the department along with the supporting documents.

WELFARE SCHEME FOR NON-TEACHING STAFF**Medical Facility**

Paavai Medical Centre with part time doctor is available on the campus.

Eye check up camp is arranged yearly once on the campus.

Group insurance scheme

The group insurance scheme with life cover and accident cover up to 1 Lakh has been provided to all the non-teaching staff

Free Bus Facility

The Non-teaching staff avail the bus facility at free of cost for their travel to the college.

Parental Pension Scheme

A Pension of Rs. 1,000/- is provided as pension to the mother of the staff who had worked in Paavai Engineering College for more than 10 Years.

Fees Concession

15% scholarship in the tuition fees for the wards of the Non-teaching staff members who seek admission in our engineering college and also providing scholarship for the wards of the Non-teaching staff members who seek admission in our Paavai Vidhyashram School based on the experience in Paavai institutions.

Free Hostel Facility

The teaching and non-teaching staff can stay in the hostel free of cost based on the request and proper application.

Special Leave

- 06 months Maternity leave for female faculty members.
- 10 days Special Leave for Marriage Occasion.
- 12 days Causal leave, 12 days Vacation leave and 12 days on duty.

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: 80.82

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

2019-20	2018-19	2017-18	2016-17	2015-16
303	271	301	288	246

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

6.3.3 Average number of professional development / administrative training Programmes organized by the institution for teaching and non-teaching staff during the last five years.**Response:** 48**6.3.3.1 Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
49	31	31	83	46

File Description	Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centres).	View Document
Reports of Academic Staff College or similar centers	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document
Link for additional information	View Document

6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course).**Response:** 92.93

6.3.4.1 Total number of teachers attending professional development Programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes year wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
343	320	361	345	255

File Description	Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View Document
IQAC report summary	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document
Link for additional information	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

To support the strategic growth of the organisation and to ensure the consistency of goals, financial requirements of the Institute plays a vital role. To plan and disseminate the right amount of funds, the Principal who is the chairman of the finance committee convenes a meeting for every financial year to submit the budgetary requirements by various academic departments and general amenities departments such as Central library, Training and Placement, Physical education, Security and Housekeeping, alumni, welfare activities and maintenance sections 3 months in advance of new financial year. Each academic and general amenities sections then estimates and proposes their budgetary requirements for establishments of laboratories, allocations of fund for organising various academic activities like faculty development programmes, student development programmes, training programmes, budgets for purchase of equipment, software, recurring and non- recurring items, requirement of books and journals, sports requirements, requirements of welfare and maintenance sections and the final list is submitted to the Finance Committee for their consideration and approval. Finance Committee then discusses and analyses the budget requirements and submits to the Governing body for their approval. After a detailed deliberation and scrutiny by the Finance Committee, funds for various departments are allotted and the budget is sanctioned from the main office in such a way which normally avoids any audit objections that may arise.

Since the financial planning is exercised well in advance for the organisation and efficient budgeting and controlled mechanisms are followed, no audit objections have aroused so far. Authentic and meticulous procedures are followed in regard to allocation of funds, purchase of equipment's and software's. In addition to that, only vendors who have satisfied our specifications are considered which will avoid

unnecessary objections. Finance review meeting is conducted to analyse the optimal utilisation of funds and execution of budget allotted to various departments through internal and external auditing. Internal auditing and verification of all payments, receipts and journals, vouchers of transactions, cash books and ledger accounts are all done by the Principal, Internal auditor, Accounts Manager. The various account statements and other documents are then audited by an external auditor too. All the funds received from the government are also separately audited. In spite of that, there may be some errors and omissions which are detected at various levels and also by our internal auditor. There are no occasions so far, the audit objections aroused.

File Description	Document
Any additional information	View Document
Link for 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 and V) (INR in Lakhs)

Response: 0

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

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

File Description	Document
Institutional data in prescribed format	View Document

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

Response:

Funds and resource mobilisation is mainly required to achieve organisational objectives such as sustainability of the organisation, its growth and expansion, effective and efficient utilisation of resources, support innovation and technological development and to establish links with various stakeholders.

Mobilisation of funds and optimal utilisation of resources:

The major source of revenue for the college is the Annual fee collected from students.

It is collected as per the fee and guidelines fixed by the Regulatory Authority. Mobilisation is also done through sponsored projects from DST, AICTE, UGC. Funds are also mobilised through the examination fees from the students which accounts for the smooth conduction of examination. It also mobilized through consultancy, alumni, industry sponsored projects. Any deficient funds will be borne by the Trust. Though the fund mobilisation is limited, the college mainly focusses on providing high quality engineering education with a social commitment of serving the society and keeping up to the vision and mission of the Institute.

Strategies for optimal utilisation of resources:

- Financial management and strategic budgeting are of high importance in planning resource mobilisation.
- During the budget preparation in the institution, all the academic and other section heads are requested to provide the annual budget requirements keeping in view of developing and updating of laboratories, computing facilities, library, teaching-learning process, training, extension activities, software etc. The same is placed before the Finance committee and the committee in turn will deliberate and make necessary changes for a proper balance of receipts and expenditure.
- Identify the resources needed to work and ensure the effective utilisation of it.
- To carry out SWOT analysis to determine the organisation strength, weakness, opportunities and threats to support resource mobilisation efforts.
- Identification of resource providers, stakeholders and examination of assistance that can be provided by them.
- To select efficient resource mobilisation techniques through grants, innovative acquisition strategies and technological collaboration.
- To create a framework of interchange with foreign universities , alumni, industry partners.

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

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the

quality assurance strategies and processes visible in terms of – Incremental improvements made for the preceding five years with regard to quality (in case of first cycle) Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives (second and subsequent cycles)

Response:

The primary goal of the IQAC is to develop a system for conscious, consistent and catalytic improvement in the overall performance of institution.

The peer team report of NAAC in Ist cycle of accreditation stated as

Less academic option available for students

Internship opportunities for all students in Industries

Incremental improvements: under IQAC initiatives

Academic option available for students: The Paavai Engineering College has got autonomous status in the year 2015-2016 and adopted CBCS curriculum under Outcome based Education from the year 2016-2017 onwards. The regulations have been amended and framed periodically from time to time. The regulations 2015 has been changed and the new regulations have been framed as Regulations 2016 with the inclusion of professional elective courses, open elective courses, employability enhancement courses, online courses, value added courses and non-credit courses and got approval from the Academic council. More number of academic options is given in the CBCS pattern. Further in 2019, according to AICTE model curriculum the Regulations 2019 has been framed with the inclusion of professional elective courses, open elective courses, employability enhancement courses, mandatory courses, online courses, one credit courses, Internship, exemption of professional elective for one equivalent online courses of three credits, one credit is allotted for two weeks internship, two credits allotted for 4 weeks internship and three credits for 6 weeks internship as per AICTE norms. If a student undergoes three one credit courses, he/she can exempt from one open elective course. Therefore academic flexibility with increased number of academic options is offered to the students to cater the need of the students with the industrial demand of the society.

Internship opportunities for all students in Industries: Under CBCS pattern, the college offers Internship opportunities to all the students in Industries and companies. Now the college has made it mandatory for all the students to do internship either to satisfy the progress norms of the Institute, or it is offered in the curriculum itself or it can be done as a value added course. If a student undergoes internship in particular industries for six weeks, he can avail a total of three credits and if it is equivalent to a professional elective courses, then the professional elective can be exempted. At present all the students are undergoing internship for a period of 7-15 days to a company or industry. The MOUs have signed by all the departments to their respective companies or industries. This has been functionally utilized by the departments to send their students for internship or Industrial visit to that particular company or industries. Therefor all the students get the opportunity to undergo internships so that they are exposed to real time situation to get hands on experience. The placement record has been improved due to this internship

Paavai Engineering College has received All India level First Rank – Best Internship Record during Internship day on 25.8.2019 jointly organised by AICTE and Internshala and it was awarded by AICTE, chairman. The total students selected were 2736 for this Internship.

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 and recorded the incremental improvement in various activities (For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives)

Response:

Two examples of institutional reviews and implementation of teaching learning reforms facilitated by the IQAC

Academic Audit: The IQAC of the college implement the reviewing process as an Academic audit and an Administrative audit every year. There is an incremental improvement in the audit system of the college. As a post initiative practice, the audit system has been systematized. There are two academic audits, the one in odd semester and the other in even semester. There is one administrative audit which is at every even semester. All the departments of the college undergo academic audit and administrative audit. The principal frame the auditors committee and assign the internal and external auditors for each department. The auditors committee and time bound of the audit is communicated to the departments through circular from the Principal. The academic audit constitutes the verification of the courses, course file, log book, innovative teaching practice, syllabus coverage, completion of CO assessment of all the faculty members of the department concerned. Similarly the administrative audit constitutes the FDPs attended, journal publication; value added courses, Library updation, class committee meetings, coaching for arrears, patent, extracurricular activities and so on. The internal auditors verify all the above factors in a specified time period and forward to the external auditor for further action. The external auditor review and analyse the strength and weakness of the department. He/she randomly verify the documents of any department and walk in to any department for further validity. After detailed analysis of the audit reports, the external auditor gives his recommendation for the development of the department. Based on the suggestions, the departments prepare the plan of action and implement those to achieve the target. The strategic plan has been deployed depends on the strength and weakness of the department, the quality initiatives have been taken and improvement is shown in the aspect of framing curriculum and syllabus, teaching learning, publications of research paper, patent, students' performance in continuous internal assessment and end semester examinations, placement related activities, internships, training and so on.

Assessing teaching-learning process: The teaching –learning process is assessed through feedback mechanism from the students and the evaluation of students' progress. The results from the internal and

end semester examinations indicate the effectiveness of teaching-learning process. The Institution aims at faculty development in terms of their pedagogy, research initiatives and project proposal submission so as to benefit for the student community. To achieve, a separate department known as Faculty Development Department is established to look into the matters of teaching skills, communication skills, research skills, use of ICT, of the faculty members like class room teaching, research efforts and paper presentations. The performance of the faculty is constantly validated and revalidated for further enhancement of knowledge, skill, expertise and attitude. As the faculty is the asset of an institution the performance is periodically strengthened. To ensure the same professionalism of the faculty, different training and orientation programmes are conducted. Pre-service training courses are organized to benefit those who joined as freshers to the service. The maxims of teaching such as known to unknown, simple to complex, concrete to abstract are followed and practiced. The faculty members practice the skill of Introduction, explanation, stimulus variation, questioning, illustrating with examples, use of black board, use of ICT tools and closure in their day to day teaching-learning process. All the faculty members of the institution are trained in the contemporary and innovative methods of teaching and encouraged to attend various programmes on pedagogy training. The practices followed to achieve quality teaching and learning are ICT enabled, participatory learning, interactive learning, Peer learning, collaborative learning, quiz, discussion, seminar, project, laboratory method, project method, problem-solving method and on field training etc. Learner friendly approaches adopted by teachers motivate students to learn in a flexible manner. The Faculty Revalidation Programme is being conducted annually, where all the faculty members present their teaching skill by taking class on any content of the subject that they are handled in the current semester. They are being evaluated with seven components of teaching criteria such as subject knowledge, communication skill, and eye contact, method of teaching, teaching aids, voice and interaction by the panel of subject experts. The teachers are graded as excellent, very good, good, very fair and fair. The teachers who got below fair grade are asked to represent the teaching on schedule time. Feedback and remedial measures are given to the faculty then and there itself, to improve their efficiency of knowledge updation and teaching skills. The teachers are given training continuously to modify their teaching skills. The teachers are asked to present and publish research papers in the International Journals. This kind of practice has a tremendous improvement and effect on the academic performance of classroom teaching. This ensures quality in teaching and learning process. This practice has made an impact on teachers to be effective on their pedagogical skills and professionalism. The teachers also felt that there was a tremendous difference in their teaching pattern and delivery mechanism. This kind of incremental improvements pave way for improvement in results of the students, placement record and internship opportunities.

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

6.5.3 Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements
2. Collaborative quality initiatives with other institution(s)
3. Participation in NIRF
4. Any other quality audit recognized by state, national or international agencies (ISO Certification)

Response: 3 of the above

File Description	Document
Upload e-copies of the accreditations and certifications	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document
Paste web link of Annual reports of Institution	View Document
Link for additional information	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Measures initiated by the Institution for the promotion of gender equity during the last five years.

Response:

Yes, Paavai Engineering College has taken efforts to initiate gender equity in students through curricular and co-curricular activities. Equal opportunities are given to boys and girls students in terms of admission, academics, extra-curricular and co-curricular activities. In curricular aspects of B.E/B.Tech programme the course on Gender Equity is offered as a value-added course in the first year of the degree programme. This course sensitizes the boys and the girl's students as to the significance of gender equity. The female faculty members of the college are given the identical designation as that of male faculty members. They are designated as Dean Academics, Heads of the department, Heads of centres of excellence and so on. The female faculty members are in proportionate as that of male faculty members. Our college has established a women welfare committee to empower girl students, to address all issues related to women and to make the college campus a safe place for female students and faculty members. The main objective of the committee is to motivate, empower women and secure the feminine gender. It aims to prevent sexual harassment and to promote the general well-being of female students, teaching and non-teaching women staff of the college. The team organizes a health awareness program, solves issues and complaints related to women and counsel them. Every year, we celebrate Womens' day in the month of March. We conduct a programme called Paavai Mission on women empowerment series to promote, motivate, inspire, initiate, and involve girl students in the development of the society and nation at large. Many eminent women personalities, resource persons are invited to motivate the young students. These programmes are organised to make the students realize, identify their potentials and develop their innate strength to succeed in their life.

Apart from these programmes, all the girls students are equally involved as compared to boys in all the activities of the college such as department association activities, various committee events, club activities, cultural activities, organizing seminar, workshop, sports, events of the college like Annual day, Sports day, Teachers day, National Youth Day, Women's day and so on.

The measures are taken to ensure safety and security for the women on campus

- Surveillance camera is installed in entire campus and hostel to ensure safety and security.
- Cyber security for Women-Awareness speech on "KavalanSos mobile App" was organized for protecting women from cyber crimes.
- A medical centre with all facilities is maintained for the benefit of the students and the staffs.
- Hostel committee formed to ensure the safety and security for the girl students in the hostel.
- Psychological and mental wellbeing are taken care by giving counselling to the students by the experts.
- Yoga classes are conducted for the students for enhancing the physical and mental health of the students. We are celebrating International Yoga day on June 21st.
- A common room is available for the girl students to take rest when they are sick. Our college has got 3 common rooms.

File Description		Document
Annual gender sensitization action plan		View Document
Specific facilities provided for women in terms of: a.Safety and security b.Counselling c.Common Rooms d. Day care center for young children e. Any other relevant information		View Document

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

- 1.Solar energy
- 2.Biogas plant
- 3.Wheeling to the Grid
- 4.Sensor-based energy conservation
- 5.Use of LED bulbs/ power efficient equipment

Response: D. 1 of the above

File Description		Document
Geotagged Photographs		View Document
Any other relevant information		View Document

7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- Solid waste management
- Liquid waste management

- **Biomedical waste management**
- **E-waste management**
- **Waste recycling system**
- **Hazardous chemicals and radioactive waste management**

Response:

- **Solid waste management:**

- Solid waste management is an essential service of any society. solid waste management is a critical aspect of environment hygiene.

To treat the food waste, the biogas plant is installed in hostel of Paavai Engineering College to conserve the environment. The hostel and college has produced 680 kgs of waste daily. The biogas produced from this plant is 51 m³/day. This biogas is used in the kitchen of hostel, so as to reduce the level of usage LPG. The usage level of LPG is 34 kg/day.

- **Liquid waste management:**

- In our College, we have installed a sewage water treatment plant for the purpose of irrigation to gardens, lawns, trees and agricultural lands. The waste products from colleges, mess, hostel, canteen are collected and treated for the purification process. The capacity of the sewage water treatment tank is around 4,00,000 litres /day. The process adopted for this treatment is by Anaerobic Digestion Method. The following parts of this system are:

Collection tank, Primary Settling tank, Sand filter, Activated carbon filter, Treated water collection tank and Water used in landscaping and plantations:

- **Biomedical waste management:**

- The medical centre is provided in the college for serving students and faculty members. In that medical centre the biomedical waste such as cotton, syringes, discarded gloves, etc are collected and properly disposed of along with non – biodegradable wastes.

The wastes like culture media, used cotton, glass plates, discarded blood, lancets etc are sterilized properly using the instruments-autoclave and hot air oven from Chemical Engineering laboratories

E-waste management:

- Electronic waste management has become a major issue nowadays. In an Educational institution, still it becomes a challenge to dispose. The college has a policy to dispose of these e-wastes safely. E-Wastes are collected from each department and it is consolidated and categorized by the computer centre of the college. The computer which can be upgraded can be done by the networking team and rests of the systems are given safely for disposal to outsourcing agencies. All the miscellaneous accessories such as batteries, PCBs, CDS from all departments and

administrative office is collected safely and handed over to the external agency for disposal.

The college always follows the policy to sustain Green Campus.

- **Waste recycling system**

- From the PEC campus, degradable solid wastes are collected from boys hostel, girls hostel, Guest houses and dumped into the vermicompost yard to make compost organic biofertilizer which is used for our own agricultural land maintained by our Agriculture Engineering department.

- **Hazardous chemicals and radioactive waste management**

- In chemistry and biochemistry laboratory, Hazardous chemicals are not utilized in any form and kind. The used diluted acids are disposed and drain in limited and controlled quantities for the protection of the environment.

No radioactive elements are generated and not used in any of our college campus.

The institution is aware of environmental problems concern with waste management. Thus, Paavai Engineering College is always environment friendly, The college fulfilled the responsibility to protect, conserve and sustain the environment in a productive manner.

File Description	Document
Relevant documents like agreements/MoUs with Government and other approved agencies	View Document
Geotagged photographs of the facilities	View Document
Any other relevant information	View Document

7.1.4 Water conservation facilities available in the Institution:

1. Rain water harvesting
2. Borewell /Open well recharge
3. Construction of tanks and bunds
4. Waste water recycling
5. Maintenance of water bodies and distribution system in the campus

Response: B. 3 of the above

File Description	Document
Geotagged photographs / videos of the facilities	View Document
Any other relevant information	View Document
Link for any additional information	View Document

7.1.5 Green campus initiatives include:

1. Restricted entry of automobiles
2. Use of Bicycles/ Battery powered vehicles
3. Pedestrian Friendly pathways
4. Ban on use of Plastic
5. landscaping with trees and plants

Response: Any 4 or All of the above

File Description	Document
Various policy documents / decisions circulated for implementation	View Document
Geotagged photos / videos of the facilities	View Document
Any other relevant documents	View Document

7.1.6 Quality audits on environment and energy are regularly undertaken by the Institution and any awards received for such green campus initiatives:

1. Green audit
2. Energy audit
3. Environment audit
4. Clean and green campus recognitions / awards
5. Beyond the campus environmental promotion activities

Response: D.1 of the above

File Description	Document
Reports on environment and energy audits submitted by the auditing agency	View Document
Certification by the auditing agency	View Document
Certificates of the awards received	View Document
Any other relevant information	View Document

7.1.7 The Institution has disabled-friendly, barrier free environment

1. Built environment with ramps/lifts for easy access to classrooms.
2. Divyangjan friendly washrooms
3. Signage including tactile path, lights, display boards and signposts
4. Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment
5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading

Response: C. 2 of the above

File Description	Document
Policy documents and information brochures on the support to be provided	View Document
Geotagged photographs / videos of the facilities	View Document
Details of the Software procured for providing the assistance	View Document
Any other relevant information	View Document

7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words).

Response:

Paavai Engineering College (PEC) has conducted several programs for providing an inclusive environment for promoting tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic, and other diversities. The vision of our college is to strive to be a global modelling institution that is ready to take on a 'leading role' in training the young generation to be socially responsible and professionally able to meet the challenges ahead of building and sustaining a socially learning culture.

For the promotion of Unity in Diversity, the NSS cell of Paavai Engineering College, organize various programmes to develop communal harmony in students. These programs aim at strengthening the bond between people and the integrity of society. The objective was to sensitize stakeholders about the importance of communal harmony, national integration, and fraternity. Every year, NSS unit conducts Special Camps in villages for NSS volunteers.

NSS-National Service Scheme of Paavai Engineering College and West Post Division, Salem, are jointly co-ordinated a special Aadhaar Enrolment and Updating Camp. Similarly, NSS Cell of Paavai Engineering College and Sree Jayam Ortho & Multi Speciality Hospital, Mallur, Salem, Vasan Eye Care Hospital, Namakkal, Dr.Mohan's Diabetes Specialities Centre, Namakkal, I-Tooth Dental Hospital, Namakkal and Rainbow Blood Bank, Karur jointly organized the Medical Camp, Eye Camp, Dental Camp and Blood Donation Camp at the college premises

CULTURE AND LINGUISTIC- The College also organizes a cultural program called 'ASTRA' CULTURAL EXTRAVAGANZA to celebrate the cultural diversity of India. Students from various

regional and cultural backgrounds participate in such programs and present their regional or cultural folk songs and dances. This mega cultural event Astra, aims to unleash the talents in the young paavaians. It acts as a prelude platform for the students before they can face the real world filled with talents. The cultural event includes, songs, dances, street play, role play, elocution in Tamil and English, Painting, Rangoli, pattimandram, Face painting, Group dance, folk dance etc. Astra the cultural event is the manifesto of cultural and communal harmony.

REGIONAL - Every year our college celebrates the Pongal festival. Ulavu thiruvizha was celebrated in our college premises. Believing in the Tamil saying 'Thai piranthai vazhi pirakkum' which means that with the arrival of Thai (January) all the concerns will fade away and all that there will be is amity, love, harmony and fortune and with the beginning of January, Thai Pongal is one of the most popular harvest festivals for thanking the Lord Sun for his bountiful blessing in terms of harvesting.

Pongal Festival: every year our college celebrates the Pongal festival. Ulavu thiruvizha was celebrated in our college premises.

SOCIO-ECONOMIC DIVERSITY: Paavai Engineering College has adopted five villages under Unnat Bharat Abhiyan Scheme. The college regularly conducts awareness camps on health and hygiene. The college conducts medical camp, awareness camp on road safety, covid-19, and Aids awareness and so on.

Thus, the institution makes every effort to inculcate communal harmony in students so that they will be moulded into socially responsible citizens.

File Description	Document
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View Document
Any other relevant information	View Document

7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).

Response:

Our college has taken different initiatives by organizing various activities to sensitize students and employees to the constitutional obligation: Values, Rights, Duties and responsibilities of the citizens. Induction programme is regularly being organized for the first-year students on values, rights, duties and responsibilities. Students are made aware of the code of ethics, human values, rights, duties and responsibilities as a citizen of India during the induction programme as well as other programmes throughout the year.

Similarly, the Induction programme is conducted habitually for all the newly recruited faculty members to sensitize and to provide awareness on Institutional values, duties and responsibilities, work culture and professional accountability of the teacher.

Our culture insists upon, Mathru devo bhava, Pithru Devo bhava, Acharys devo bhava and Athiti devo bhava. In order to inculcate this, Value-Oriented practices such as Padha Pooja to parents during the Induction programme and salutation to the teachers in the form of Padha Pooja on Teacher's day are encouraged. By practicing this, the students naturally inculcate the value of gratefulness and respect towards their parents and teachers. This gives an insight into the act of being human and the importance of adherence to Human Values.

Paavai Engineering College has introduced a compulsory paper on the Value Education and Environment science, Professional ethics at the Degree level across all engineering disciplines to create awareness and sensitizing the students and teachers to Values, Rights, Duties and Responsibilities of citizens.

Constitutional Obligations: Paavai Engineering College actively participates in Electoral duty, awareness camps and special camps on elections, voters ID camp, Aadhar camp etc. Our NSS students regularly participate in election duty as volunteers in M.L.A elections and M.P elections. The NSS officer along with the other faculty members of the college involves themselves in the above activities to do their duties and responsibilities as a constitutional obligation.

Our institution has adopted five villages under Unnat Bharat Abhiyan Scheme. The college regularly conducts awareness camps on health and hygiene. The students and the faculty members participate in all these activities. The Director-Administration, Principal, Dean Academics, HoDs, Senior faculty members served as a resource person for the camps to address the village people and school children.

INDEPENDENCE DAY CELEBRATION

The college celebrates Independence Day on 15th August with a flag hoisting ceremony and parade every year. Our NSS volunteers more than 75 students willingly participated in the march past. At the end of the programme, the Independence Day oath was taken by our students. The management, Directors, Principal, Dean Academics, CoE, HoDs, Faculty members, non-teaching staff members collectively participate to celebrate Independence day.

REPUBLIC DAY CELEBRATION

Our college celebrates republic day on 26th January every year. Our NSS volunteers more than 75 students willingly participated in the march past. At the end of the programme, Republic Day oath was taken by our students. The NSS Volunteers and Blood donors honored with the Certificates. The management, Directors, Principal, Dean Academics, CoE, HoDs, Faculty members, non-teaching staff members together participate to celebrate the Republic day.

File Description	Document
• Details of activities that inculcate values; necessary to render students in to responsible citizens	View Document
Any other relevant information	View Document

7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.

- 1. The Code of Conduct is displayed on the website**
- 2. There is a committee to monitor adherence to the Code of Conduct**
- 3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff**
- 4. Annual awareness programmes on Code of Conduct are organized**

Response: C. 2 of the above

File Description	Document
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	View Document
Code of ethics policy document	View Document
Any other relevant information	View Document

7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).

Response:

Our students are on a mission towards better India by breaking the boundaries of religion and caste. Thoughts of great Indian personalities sowed into the young minds through the exhibitions and programs conducted on these days. Every year our institute celebrates national festivals and International days and events. Staff and students get to know the importance of national integrity in the country in general and their role in it in particular.

- **26th January Republic Day:** Our institution celebrates Republic Day on 26th January every year. At the end of the programme, Republic Day oath was taken by our students. The NSS Volunteers and Blood donors honored with the Certificates.

- **Independence Day:** Our institution celebrates Independence Day every year. Our NSS volunteers more than 75 students willingly participated in the march past. At the end of the programme, The NSS Volunteers and Blood donors honored with the Certificates

- **5th September Teachers Day Celebration:** Teachers Day is celebrated every year with great fervor by the students to show their regards to their teachers. Our students usually do Padha Pooja to their teachers to inculcate the rich heritage of our culture.

- **15th September Engineers day** (Birth Anniversary of Sir Visvesvaraya) - We celebrate this day on 15th September consistently as an exceptional tribute to the best Indian Engineer Bharat Ratna

Mokshagundam Visvesvaraya.

- **2nd October Birthday Celebration of Mahatma Gandhi:** Every year National Service Scheme, Paavai Engineering College, Young Indians, Salem, Indian Women Network and Confederation of Indian Industry (CII), Salem Chapter jointly celebrated the Birthday of Gandhiji in the college premises.
- **National Youth Day:** Every year our institution celebrates National Youth Day, also known as Vivekananda Jayanti, is celebrated on 12th January being the birthday of Swami Vivekananda
- **7th December Indian Armed Flag Day Celebration:** Armed Forces Flag Day is observed across the country on 7th December with the objective of collecting funds from the common people and to honour the martyrs and the men who fought with bravery on the borders to safeguard the country's honour. During this day our students collected money from the students and staff members.
- **8th March The International Women's Day:** It is observed every year to help the students to eliminate discrimination against women.
- **International White Cane Day:** The National Federation of the Blind celebrates White Cane Awareness Day every year on October 15. Indian Association for the Blind, Madurai is celebrating the International White Cane Day for the Blind. In this event all students and staff members of Paavai institutions were contributed the amount for the visually challenged children.
- **21st June International Yoga Day:** June 21, also called summer solstice, is the longest day of the year. Therefore, it was decided that the International Yoga Day would be celebrated on this day. Under the patronages of National Service Scheme and Physical Education, more than 1000 students take part every year in this event of celebrating the International Yoga Day in our college premises.

File Description	Document
Geotagged photographs of some of the events	View Document
Any other relevant information	View Document
Annual report of the celebrations and commemorative events for the last five years	View Document

7.2 Best Practices

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

Response:

Best Practices-I

PADHA POOJA PERFORMED BY THE STUDENTS

1.1. Title of the Practice

Padha Pooja performed by the students to their parents and teachers.

1.2. Objectives of the Practice

- The distinctive point of the institution is to mould the students into a self-disciplined and respectable person in the society.
- To develop love and affection towards parents and teachers.
- To develop the habit of adherence to the elder words.
- To understand the sacrifice of their parents.
- To realize the significance of the teachers.
- To develop in to a cultured person.
- To develop moral values and ethics into the students.
- To recognize the importance of hard work and work culture.
- To share responsibilities among teachers and parents.
- To develop among themselves a sense of social and civic responsibility.
- To promote moral values and ethics in the students' community.
- To adopt themselves into societal norms and national norms.
- To make students to understand the rights and duties as a son and as a student.
- To satisfy the expectation of the parents and teachers so as to become the economically

independent individual.

1.3. The Context

The College has got its rich heritage of fostering the habit of padha pooja in students performed to their parents and teachers. Our country is rich in its tradition and culture. It is the responsibility of the institution to mould the personality of the students holistically and professionally for better future of the nation. The country is digitalized, and the technology plays a major role in shaping the community. The cognitive domain has been updated and improved; the affective domain is not at all given importance in the current scenario, so the children are deficient in expressing their emotions. Now the present generation of students are always engaged with the technology, they are not given importance to values like honesty, hard work, simplicity, respect, obedience and so on. Therefore, as an educational institution are temples of learning, it is very much necessary to inculcate the value system in the students for the peaceful society ahead.

1.4. The Practice

. As our culture insists upon, Mathru devo bhava, Pithru Devo bhava, Acharys devo bhava and Athiti devo bhava. In order to inculcate this, Value Oriented practices such as Padha Pooja to parents during Induction programme and salutation to the teachers in the form of Padha Pooja on Teacher's day are encouraged. Paavai Engineering College started to practice and adhere to this padha pooja, since inception of the college. It is said that the parents are the first teachers and teachers are considered to be the second parents. During inauguration of first year classes every year, all the parents of the first year students are invited. After the inaugural ceremony, the padha pooja is being done by the child of the respective parents. The parent's feet is washed by their children and worshipped with the flowers. Parents in turn bless their children for the education and upliftment in their life. It was a heart touching sight and emotional, which makes both the children and parents in tears of joy. No child will forget that

moment in their life.

Similarly, Padha pooja is being done by the students to their respective teachers on Teachers' day Sept 5th of every year. The Teachers' day function usually celebrated in a grand manner, where all teachers' fraternity assemble in Aanadha Aranagam, an auditorium of 2500 seating capacity. The teachers were recognized for their performance. The final year students were called for doing Padha pooja, in the same way the teachers feet is washed and worshipped with flowers. Teachers profusely shower their choicest benediction to their students. It is usually an amazing glimpse to witness the situation

1.5. Evidence of Success

By practicing this, students naturally inculcate the value of gratefulness and respect towards their parents and teachers. This practice has a great effect on students to know about the great culture and tradition of our country. This gives an insight into the act of being human and the importance of adherence to Human Values. Padha Pooja makes the students to realize the responsibility as a son, student and as a future citizen of the country. The students are able to appreciate and exhibit their respect and regard to the culture of our traditional values. Many of the students expressed that this habit has a tremendous change in their character and personality development.

Best Practices-II

OUTREACH PROGRAMMES FOR RURAL COMMUNITY DEVELOPMENT

2.1. Title of the Practice

Outreach programmes for rural community development by adopting nearby five villages, which promotes the societal responsibility of the students to evolve as a best human being.

2.2. Objectives of the Practice

- primary focus of the institution is to transform the students into an accountable person in the society.
- To build rural community with sustainable growth.
- To work with the people of rural India in identifying development challenges and evolving appropriate solutions for accelerating sustainable growth.
- To promote the rural areas through various activities such as seminar, awareness camp, rally etc.,
- To mobilize and decentralized the local resources effectively.
- To understand themselves in relation to their community.
- To develop among themselves a sense of social and civic responsibility.
- To develop competence required for group-living and sharing of responsibilities.
- To Gain skills in mobilizing community participation.
- To acquire leadership qualities and democratic attitude.
- To develop capacity to meet emergencies and national disasters.
- To practice national integration and social harmony.

The underlying principle of this practice is

To promote rural community in terms of improving their awareness in health, sanitation, livelihood and education.

To identify the needs of the rural community and supporting them by providing various activities to develop the community.

To make students to understand the rights and duties of the citizen and to emerge as a socially responsible citizen.

2.3. The Context

The College has got its rich heritage of fostering the habit of rendering service to the local and national community. The students are motivated to participate, involve and extend their service towards humanity. All the outreach activities are aimed to improve the holistic personality of the students. The various activities are planned and implemented through National Service Scheme (NSS) of the college. The interactions and exchange of good will of the people provide the students a sense of sympathy and empathy. The college efficiently works towards the development of the students in an academic context and also gives equal importance to these outreach activities. These training, exposure and involvement of students have provided them the experience of social living. These activities are required for every individual student to claim his/her desired attitudes. The students move towards the desired goals progressively.

2.4. The Practice

The practice of adopting five villages from the society is with the objective of cultivating 'Service to mankind is to service to God' in students. The villages are Natamangalam, Semmampatti, Thathayangarpatti, Erukkapalayam and Puliampatti. This practice shapes the student's community to emanate as a problem identifier and problem solver of his or her own community. These outreach activities are carried out since the inception of the college. Paavai engineering College has National Service Scheme(NSS) team with faculty head as NSS Programme officer, with his team members. The office bearers are selected from the student representative and nominated as President, Vice-president and secretary. The whole team consists of 100 NSS volunteers. The cardinal principle of the NSS programme is that the students and teachers combined together in community service and get a sense of involvement in the tasks of nation building. From 2015 onwards there are two types of activities are organized, they are regular activities and special camp activities.

Regular activities of National Service Scheme of the college: The college has adopted five villages and service is extended to promote education of the poor, repairing schools, household survey, village survey, awareness camp on health and hygiene, road safety awareness, cleaning of the village and temples. House hold survey has been done with the objective of identifying the water facility, electricity facility, gas facility of each individual house and village survey has been done to identify the transport and road facility. The report has been submitted to the district collectorate for further action. Along with the

adoption of village, NSS activities includes functional literacy and non- formal education, Tree plantation, Participate in Republic day parade, preservation and up keeping of trees, construction and repair of roads, painting of school walls, cleaning of village ponds and wells, health education and primary health care, first aid awareness, blood donation, AIDS awareness, advocating advanced agricultural practice, disaster management (Cyclones, floods), women empowerment, road safety, afforestation, blood donation, plastic eradication, and celebration of days of national importance and so on.

Special camp activities of the college: The special camp activities are conducted once in a year. The activities constitute free medical camp, talk on cyber-crime and security, programme on women empowerment, awareness rally on disposal of plastic usage, Eye check-up camp, health awareness rally, Swachh Bharat mission (Clean India Mission), awareness on following traffic rules, organic farming awareness rally, Yoga and natural medicine camp and so on. These activities are planned and implemented regularly as a part of social activities to contribute towards the betterment of the society.

The practice is unique, since it bestows the best education to the students' community as it is participatory learning and experiential learning.

2.5. Evidence of Success

The rural community is benefitted from these programmes. The village people expressed their willingness to accept and allowed the college to conduct many programmes in their village. The students are benefitted by these activities to develop their holistic personality. The students and NSS programme officer have achieved many awards, recognition, and appreciation on account of their tireless service.

- Anna University Level Award - NSS Best Volunteer Award for four consecutive years (from 2015-2019).
- Best NSS Programme Officer Award from Anna University for the year 2018-2019.
- Republic Day Parade Camp-, New Delhi-Our students have participated in Republic Day Parade for consecutive years (2017,2018 and 2020).

- Two of our students have participated State Republic Day Parade-2019.

- Two of our students Participated NSS National Integration Camp at Alagappa Chettiar College of Engineering & Technology, Karaikudi.
- Our students have participated in Indian Student Parliament-2018 & 2019, Organized by MIT School of Government, MIT World Peace University, Pune.
- Two of our students have participated in 22nd National Youth Festival Noida, Gujarat.
- Three of our students participated in National youth development, held in Rajasthan.
- 14 students

2.6. Problems Encountered and Resources Required

There are not major issues, sometimes there is a hesitation from the village people to co-operate with the NSS team. Sometimes students have conventional idea about blood donation and health related matters.

File Description	Document
Best practices in the Institutional web site	View Document
Any other relevant information	View Document

7.3 Institutional Distinctiveness

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

Response:

The vision of the college is strive to be a globally model Institution all set for taking 'lead-role' in grooming the younger generation socially responsible and professionally competent to face the challenges ahead. In the process of attaining the vision, short term and long term strategic plans have been drawn. Emphasize is being given to initiate various quality measures such as augmentation of infrastructure, quality of faculty members, increase in need based new programmes, quality certification, interaction with other institutions, placement and emerge as an institute of excellence on par with other reputed institutions. To provide an affordable quality higher education to all at all times is the functioning strength, formulating morale and formatting spirit of our college.

The college always adopts uniqueness in moulding the personality of the students by following its own Distinctiveness, Christened as **"Mandatory registration for internships for all the students"**.

The main objective of this internship is to transform the students' community into economically independent citizens. This is unique, because it is adopted under the principle, "Earn while you learn".

The College in the past twenty years has created a niche for itself in the curricular and extra-curricular activities. Our Institution offers internship programme, which promotes technical skills, soft skills and professional skills of the students. This internship is provided from the first year onwards. The students get the opportunity to explore and learn the latest technologies and get exposed to the expectation of the industry. The involvement of the students and the contribution of the faculty in this internship programme have uplifted the status of the students as well as institution to the greater levels. Efficient planning and extraordinary training are required by every individual student to claim his/her desired attitudes. In consequence, the students move towards their desired goals hopefully.

The practice of internship and training through AICTE - Internshala is offered to the students from the year 2015 onwards. The Internshala is a technology company which equip students with relevant skills and

practical exposure through internship programmes. The Paavai Engineering College is registered in Internshala (Internships and training) to develop the technical skills and soft skills of the students which in turn benefits the student's community. The Internshala put forward the various internship programmes for engineering streams and management streams every year. The college has made it mandatory for all the students to register in Internshala. This has been included in the progress norms of the Regulation 2019. The college has Internshala co-ordinator who circulate all the information of the Internshala to various department co-ordinators. The respective department co-ordinator communicates the information to the students. Every year the Internshala conducts 5 contest to identify the, "Internshala Student Partner" (ISP) who acts as a campus ambassador. The advantage of this practice is to make students placement oriented, skill development, and entrepreneurs.

All the students of various departments of the college are made registered in the Internshala. The students are called to participate in the contest conducted by Internshala. Those students who won the contest have been selected as a campus ambassador. The campus ambassadors are provided with the necessary material and provisions to conduct programmes in the college by the Internshala. These "Internshala Student Partner" (ISP) organize awareness programme on the internships and training to the rest of the students, so that they will be registered and get benefitted. The internship is offered to all branches of engineering streams. The registered students get selected according to the stream of engineering in the companies for internships.

The selected student gets stipend for internship. In Paavai Engineering College, there are totally 6847 students are registered and overall 4525 students got selected for internships in the respective companies. The students' community avail these opportunities provided by the college and enjoy the benefit of getting stipend to ensure the social security. It motivates the student to be self-supporting and self-sufficient.

The uniqueness of this practice is internship is provided by all the college, but our college made registration mandatory for all the students to do internship through Internshala and expose the students to global market and international requirement.

The students are actively registered and selected for internships and placement. The students are tuned to employment, placement, upgrading technical and professional skills. Since the last three consecutive years, Paavai Engineering College has registered the maximum number of students in the Internshala and optimum number of students are selected for internships in the respective companies. The continuous and consistent efforts of the college to mould the students in developing their technical and professional skills have been recognised by AICTE and Internshala and the college has been awarded for its exemplary contribution.

During this Covid-19, pandemic situation, the college has made its sincere attempt to make all students to register for internships through Internshala. The total number of students got selected for their respective companies are 2387 in the year 2020-2021.

Paavai Engineering College has received All India level First Rank – Best Internship Record during Internship day on 25.8.2019 jointly organised by AICTE and Internshala and it was awarded by Prof. Anil Sahasrabudhe, Chairman, AICTE, New Delhi. The total students selected were 2138 for this Internship and training.

Paavai Engineering College has received Most Innovative Award South Zone –Record during Internship day on 25.8.2018 jointly organised by AICTE and Internshala.

Many students have evolved as an app developer, software developer, programmer and an entrepreneur. The campus placements have gradually been improved. Students are better trained and prepared for interviews and expressed their deep sense of satisfaction. These results indicate that the students are provided opportunities to emerge as a socially responsible and economically viable citizen.

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

5. CONCLUSION

Additional Information :

- NAAC-Accredited with CGPA 3.14 on a four point scale 'A' Grade valid for a period of 5 years. Now the period is extended until the completion of NAAC 2nd cycle Accreditation process.
- Our college has been recognized under section 2 (f) of the UGC Act, 1956
- CSE, CIVIL, ECE and EEE departments are accredited by National Board of Accreditation for Three Years (2017-18 to 2019-20)
- Paavai has been categorized as Band B institution (All India rank between 26 to 50) in ARIIA - ATAL Ranking of Institutions on Innovation Achievements
- Our college has received All India level First Rank – Best Internship Record from AICTE- Internshala for two consecutive years
- Four of our departments have been recognized as Research Center by Anna University
- Paavai has established MoUs with Taiwan Universities during the Indo - Taiwan summit held at Paavai Engineering College
- Paavai received "Innovation and Sustainability" award for Engineering College in 2019, from the Institution of Engineers (India) Salem, for appreciating our service to the engineering fraternity
- Sanctioned research funds of Rs.1,33,15,749/ from government agencies such as SERB, DST, AICTE, CSIR, ICMR, PMKVY and DRDO for the past five years
-
- Stands in Top Ten position in TNEA counseling for the past three years
- Paavai has been awarded "Champion of Champions Trophy" consecutively for six years in the Anna University Sports and Games Competitions
- Established Business Incubation Center under "Ministry of Micro Small Medium Enterprises" (MSME).
- Advanced partner institution with Infosys for Infosys Campus Connect since 2012.
- Received Gold Zone Award from Indian Association for Blind, Madurai.
- Our college has received a certificate of appreciation as a Gold Member of British Council Exams Partnership Programme for conducting BEC courses
- Our students have got NSS Best Volunteer Award for four consecutive years (from 2015-2019) from Anna University
- Our college NSS Programme Officer has got Best NSS Programme Officer Award from Anna University for the year 2018-2019
- Three of our girl students participated in Republic Day Parade Camp, New Delhi for consecutive years (2017, 2018 and 2020)
- Two of our students have participated State Republic Day Parade-2019

Concluding Remarks :

Paavai Engineering College with support from its visionary management, proficient administrators, an initiative and operative leader as a principal, committed and dedicated faculty members have been on growth trajectory

with respect to quality and quantity assurance and sustenance, since its inception 2001.

Under IQAC initiative of the college, a SWOC analysis was done in a structured manner involving all the faculty members and this analysis together with the core values of Paavai Engineering College formed the basis for developing a strategic plan to evolve with the Vision of the Institution. The results of the SWOC analysis together with the core values, vision and mission of the institute as well as the perception of the institute about its social responsibilities formed the basis for developing the strategic plan.

The activities towards promoting research, industry-academia interface, faculty with research idea and doctoral degree, extension and outreach programmes have helped the college to transform from teaching institute into a research institute. All the activities of the college such as curricular aspect, teaching-learning, research, infrastructure, student support and Institutional values and practices are done under the guidance of IQAC cell of the college.

The college always mould students into a holistic personality, the curricular aspects such as elective courses, value added courses, one credit courses, skill development courses are offered and the technical paper presentation, internships, industrial visit, project is provided to make the students professionally competent. The sports and extension activities are carried out regularly to inculcate the team spirit and social consciousness in students. Paavai engineering College has been awarded, 'Champions of Champion Trophy' by the Anna University Sports board for the past six consecutive years. Thus the college has taken every efforts to shape the overall personality of the students and emerge as a socially responsible and professionally competent students

The Management, Administrators, Principal, CoE, Deans, HoDs, faculty members, staff and students work as one team and are sharply focussed on raising the standard of the college to a greater heights. The college is on the venture of becoming an Institute of National reputation and gaining International importance as well.