



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

JAYA ENGINEERING COLLEGE

C-TH ROAD, PRAKASH NAGAR, THIRUNINRAV UR, CHENNAI

602024

www.jec.ac.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

February 2022

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Jaya Engineering College (JEC) is institution founded in the year 1995 with a focus on technological innovation, entrepreneurship and character building to the students. The college offers **9 UG courses and 7 PG courses**. JEC is Affiliated to Anna University, Chennai and approved by AICTE, New Delhi. The college management team consists of well-experienced and committed Academicians and Administrators.

Situated close to the Chennai Metropolis, the college is one of the foremost centres of graduate and professional education in the state of Tamilnadu. The range and depth of resources at the college have few peers. Within easy reach on the same campus and other sites, the college combines all the advantages of a comprehensive institution in the Arts and Science with a full complement of professional schools. Among these are business, dentistry and an unusually complete array of paramedical professions, including pharmacy and physiotherapy.

The undergraduate and post-graduate courses in the college offers its students the optimum setting in tertiary education specialized courses with a contingent of accessible and dedicated faculty members, within a large highly diverse college offerings nearly unlimited academic opportunities and resources. The lecture halls and laboratory areas are modern and well-equipped. The college has extensive links with IT facilities for the benefit of the students.

The college ensures that all students have the opportunity to acquire and develop personal and transferable skills, such as technical communication and team-working skills, which are directly appropriate to their future courses.

The institution is a life member of various professional bodies like ICI, ISTE, IETE, and CSI to the advancement of knowledge, practice of professions and promoting professional standards. College has a vibrant Placement Cell, Women Development Cell, Internal Quality Assurance Cell and signed MoUs with leading engineering industries.

JEC has an appealing infrastructure with 7 seminar halls, 1 auditorium, 3 drawing halls, smart class room in each department, digital library, computer centre and availability of 30 Mbps Wi-Fi connectivity throughout the campus. The institution has well furnished and sophisticated hostel facilities with indoor gym separately for boys and girls and mess providing hygienic food varieties as per the choice of students.

The students are tutored, mentored, counseled for academic development and promote innovative thinking. Beyond academics, the institution instills self-discipline among students, motivates them to participate in sports and games especially in cricket.

Vision

To nurture innovative future leaders in technology, entrepreneurship and management who create wealth for our nation and develop a fulfilling global society.

This vision statement is an aspirational statement made by our college that speaks what they would like to achieve. Furthermore, the vision guides the direction of the organization's efforts. This vision statement that describes the goals and ambitions of our college is under nonprofit company. It deals with the future in a way that reflects your college's core values, and outlines your college's long-term goals. This well-crafted vision statement serve as a guide or a mantra that inspires your employees to work towards the greater goal of our college. This vision statement describes our college is building towards in the future. This vision statement is motivating your team and drives your workforce. This vision inspires potential stakeholders. It will inform our college direction and set priorities while challenging your employees to grow.

Mission

To create a model educational institution contributing to innovation, entrepreneurship & technology management for our country.

This mission statement assigned based on organization's trust resolution. Mission guides the day-to-day operations of the organization, communicates to external stakeholders the core solutions the organization provides in society and motivates employees toward a common near-to-medium term goal. In short, this mission statement paints a picture of who the company is and what the company does.

This decent mission statement should only focus on what is most important to the organization. It should be brief, clear, informative, simple and direct. It should avoid elaborate language, clichés, and generalizations and it should emphasize outcomes and the people the organization is serving.

This mission statement achieve the following for our engineering college:

To build across the institute a culture of excellence in teaching and learning with needed performance and accountability from all support activities.

To enhance the institute standing as the institute of choice for students across the country; and to augment the presence of international students to at least ten percent of student body.

To cultivate a field in which new ideas, research and scholarship flourish leading to emergence of creators, innovators, leaders, and entrepreneurs.

To design the education through a continuous process so that the students qualifying from the institute have the top rating in placement.

To achieve excellence in application-oriented research in selected areas of technology to contribute to the development of the region and the nation.

To scrutinize what customers and employees are saying

To Review opportunities for improvement

To identify outside opportunities may include market trends, government funding programs or relevant technological innovations, among others.

To promote co- and extra-curricular activities for over-all personality development of the students.

To develop responsible citizenship through awareness and acceptance of ethical values.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

ICT enabled Teaching–Learning process

Training students for enhancing employability skills

Skill development programmes offered to students from first year onwards

Student participation in Academic and Administrative activities Career improvement of students through Co-curricular and Extra-curricular activities

Satisfying the diverse needs of students with different backgrounds

Appropriate feedback mechanism for continuous quality improvement

Good rapport among the stakeholders

Eco - friendly practices in the campus

Institutional Weakness

Geographically located in rural region

Less industrial connectivity due to remote location

Departments need to become recognized Research Centers by Anna University

Lack of funded projects and patents Industry - academy relation to be improved for projects and consultancy

Quality publications and Interdisciplinary research need to be strengthened

Institutional Opportunity

Establishing Centre of Excellence in key areas like research and consultancy

With Entrepreneurship Development Cell, opportunities are available for students to become entrepreneurs.

Practicing outcome-based education in all aspects of engineering disciplines

Offering courses through NPTEL influences the self-learning initiative of students Value added courses provide opportunities to explore new areas of interest

Establishing continuous interaction with industry for mutual growth Emphasis on renewable energy sources and use of power saving appliances

Enhancing contributions to green initiatives for sustainable development Extending facilities to the society through extension activities

Institutional Challenge

Changing admission scenario in engineering programmes due to more number of colleges in and around.

Rapid changes in technology and accordingly improving the employability skills of students Lack of free slots in academic schedule confines incorporating more add-on courses to cope up with industry requirements

Availability of qualified faculty in the emerging areas of technology Reduced reading habits of students due to the influence of media

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Jaya Engineering College is a affiliated Institution under Anna University, Chennai Tamilnadu. Nine under graduate programmes, seven post graduate programmes are offered as per the regulations and curriculum & syllabi of Anna University, Chennai.

The Institution follows the syllabus and scheme prescribed by the University. The Institution takes utmost effort in effective curricular planning and implementation as prescribed by our affiliating university. Each course follows the Choice Based Credit System (CBCS) and the syllabus framed by Syllabus committee, Board of Studies of Anna University, Chennai. Compliance of Anna university curriculum is done to contribute different domains in curriculum and curricular gaps are identified through inputs from stakeholders.

Academic calendar is diligently prepared to implement the curriculum effectively. Institute adheres strictly to the Academic Calendar prepared in the beginning of each semester as per the academic schedule provided by the Anna University which includes weekly working days, holidays, internal assessment test dates, practical exam dates, Department wise workshops schedule, technical seminars, industrial visit, parent teachers meeting , sports day, cultural day, last working day etc. Internal Tests and Model Exams are conducted as per the schedule.

Based on the feedback on syllabus from different stakeholders, Institute offers certificate courses to the students every year to cater to the requirements of the stakeholders and the job market. Teachers of the Institution are also participating in design and development of curriculum and evaluation process. Courses relevant to Gender, Environment like Environmental Science, Professional Ethics, Human Rights, etc. are offered as per Anna University curriculum. Awareness programmes on gender empowerment, environmental protection and service camps are conducted to groom the youngsters as better citizens.

Guest lectures, in plant training, Internship and Value added courses are executed to motivate the students to do innovative projects. Analytical and aptitude training classes are conducted to ensure better placement. Student's knowledge is enriched through experiential learning, field work, internship, project work. Feedback of the curriculum is collected from various stakeholders like Students, Faculty, Employers, Parents and Alumni of the institution. Further the feedback has been analyzed and action has been taken.

Teaching-learning and Evaluation

Our Institution offers quality technical education by best teaching techniques with an exalted aim of bringing students especially from the rural areas into the fields of Engineering and Technology. JEC is approved by AICTE and permanent affiliated to Anna University, Chennai.

The institution has a student-faculty ratio of 5:1 for effective teaching.

Each semester academic calendar was prepared in aligned with University. Advanced and slow learners are identified based on learning abilities, and special programs are arranged to enhance their performance. For slow learners Remedial Classes, bilingual explanation and discussions were conducted after the class hours for better understanding. Internal tests and end semester examination is conducted for continuous assessment. Blooms taxonomy is followed in the question papers. The process is transparent and adheres strictly to the academic calendar. Class Committee meetings were conducted thrice in a semester. The committee will discuss the syllabus completion and collect feedback from the students. The average pass percentage of students during last

five years is 85.01%.Faculties were allotted as mentor with the average of 5 students for academic counseling & other related issues. Average percentage of full-time teachers against sanctioned posts is 100.00.

Student centric methods are adopted for enhancing learning experiences. Our institution promotes ICT teaching methodologies through E-Learning resources such as Video Lectures, NPTEL Courses, Virtual Lab, Smart Class rooms, E-Books and E-Journals. Course Outcomes (COs) are defined for all subjects and mapped with Program outcomes (POs) and Program Specific outcomes (PSOs). Attainment levels of COs, POs and PSOs are calculated and evaluated. The student feedback mechanism facilitates to identify the strength and areas for continuous improvement in teaching learning process.

Research, Innovations and Extension

JEC encourages and motivates the faculty and students to accomplish research & promotes research culture. Nine faculties have completed Ph.D. and nine are pursuing. Incentives are provided for Ph. D scholars and journal publications. JEC has Entrepreneurship Development Cell and Intellectual Properties Right Cell to enhance innovative and intellectual skills and to preserve the intellectual properties.

Entrepreneurship Development Cell conducts more programmes and motivates them to start business by interaction with successful entrepreneurs. Papers were published by faculties through conferences and in reputed index journals. The students are encouraged to participate in various workshops and conferences to remain updated of the latest knowledge in engineering & technology. Students' projects are good indication of research culture in our institution. Faculties are encouraged to publish papers in reputed journals. Institution encourages faculty to publish books, to conduct and participate in workshops and seminars for updating technical knowledge. Received various awards from government and government familiar bodies for the extension activities

Faculty members are motivated to apply for research projects are funded by Government and Non-Government agencies The Institution has Entrepreneurship Development Cell (EDC) and Industry Incubation Centre to identify young talents and nurture them in research Number of workshops / seminars conducted on Intellectual Property Rights and Industry-Academia Innovative Practices .Knowledge Resource centre is established in our college.

Extension activities are regularly conducted by NSS ,YRC and professionals to sensitize students to social issues and concerns.

Infrastructure and Learning Resources

JEC has an impressive infrastructure with modern facilities, good academic ambience and lush green environment as per the norms. It has excellent ventilated 61 Lecture halls, 20 tutorial halls, 7 seminar halls, 2 drawing halls and well equipped Laboratories with Smart Classroom & projector facilities. Also provides separate common room for boys and Girls, sick room, Hostel for boys and girls with gym facilities, CCTV cameras, ramps, special rest room, wheel chairs, Transportation, ATM, Medical facilities by qualified medical

professionals and 24x7 ambulance services.

Auditorium is used for conducting cultural events/activities, co-curricular activities and Yoga classes. There are well maintained grounds for Cricket, Basketball, Football, Volleyball, shuttle and Athletics. Separate sports area is allotted for field events like Shot put, Discus Throw etc., Library has spacious reading hall with seating capacity of 100 students. Library activities are fully automated by AutoLib software including OPAC and barcode scanner is followed for circulation and gate entries.

Books are classified according to decimal classification system has 46166 volumes and 17881 titles and 2554 back volumes, apart from this library subscribes to national and international periodicals. Institutional Memberships has DELNET, JGate, E-Shodhsindhu, E-Shodhganga, Springer open and NDL. Digital section is connected to 30 Mbps internet connection to access various online resources. Our Institution has 940 computers for students and administrative usage. A student to computer ratio of 1.4:1 is being maintained. The entire campus is provided with 30Mbps Wi-Fi and LAN connections. Consecutive system up-gradation arrangements are incorporated on every year. The Institute ensures optimal allocation and utilization of the available financial resources for physical & academic maintenance and upkeep by holding regular meetings with maintenance team.

Student Support and Progression

The Institution provides financial assistance to deserving, meritorious and economically weaker section of students. It also offers services for students' personal and professional development.

The details of the support and services given to students are: Average percentage of students who received scholarships from the government is 62.19%.

Average percentage of students who receive fee waiver in tuition fee is 10.82%. Guidance to perform well in competitive examinations, training on communication and soft skills, remedial coaching for slow learners, counseling for academic issues, physical and mental fitness through sports, yoga, and meditation etc.

Average percentage of students benefited by the skill development courses is 100%.

Grievance Redressal mechanism that is in practice is transparent and effective. Student grievances related to teaching-learning, ragging, and sexual harassments are sternly dealt with, promptly attended to and resolved immediately.

Average percentage of placement of passing out students is 50%.

Average percentage of passing out students pursuing higher studies is 28.43%. Received 14 Awards/medals for outstanding performance in sports/cultural activities at the national/international level. Opportunities to develop students' organizational skills, managerial skills, leadership skills, technical skills through Student Association and professional society chapter's activities.

An Alumni Association, as a registered society, aimed at inviting alumni to give pep talks about their experience from their area of profession or higher studies. The alumni can share their experiences in getting admitted into a university abroad and can conduct mock interviews to students providing them hands-on experience. Alumni meeting are held once in a year in the college.

Governance, Leadership and Management

JEC's governance, leadership, and management strive to translate the Institution's vision into reality through the following means: The Governing Council (GC) of the Institution meets once in a year to discuss and arrive to a consensus on the administrative and academic functions of the college.

The Principal heads the academic and administrative setup. HoDs support in various academic activities as well as administration. Various committees headed by senior faculty members are formed by the Principal. These committees help in the decentralization of work and ensure collective responsibility among faculty members. All staff members have freedom to express their views and their innovative ideas. The HoDs prepare the Annual Budget of respective departments and forward to the management for approval through the Principal. The college provides advanced teaching facilities and excellent placement. The Grievance Redressal Committee looks into the grievances of both the students and staff, conducts an enquiry and addresses the grievances amicably and professionally.

More number of teachers provided with financial support to attend conferences/workshops and membership fee of professional bodies. Total number of professional development programs organized by the Institution is 538- and Average percentage of teachers attended is 11.63 %. Welfare measures provided to the teaching and non-teaching staff include free accommodation for outstation faculty members in hostels, educational support to children of non-teaching staff members, EPF, gratuity, maternity leave benefits, insurance benefits, free transportation and food, awards, and incentives, gift for staff marriage, Medical facilities on campus and day care facility, A well-defined system for faculty appraisal is followed in the Institution. External and internal financial audits are conducted periodically and improvement strategies are developed based on the audit report. A quality assurance cell has been instituted right from the inception of the college and an IQAC has now been established for reviewing the outcomes in various activities.

Institutional Values and Best Practices

JEC upholds a set of values and best practices, which show the Institution's commitment towards the development of not only the students and the teachers but also the society and nation. The Institution believes in providing fair treatment to both men and women, with gender-neutrality and there is no discrimination against women, race, caste, creed and religion. The college undertakes a lot of initiatives for gender equity & sensitization like, professional counseling, common rooms, day care, transportation, hostel, facilities, etc. The Institution organizes national and international commemorative days, events and festivals. Institution organizes gender-equity promotion programs like seminar on life skills, self defense program, yoga sessions, sexual harassment and legal provisions, women health, cancer awareness, stress management, hidden secret camera, etc. The Institution is keen in providing safety & security for girl students and women employees by installing CCTV camera. The top administrative positions are also held by women in the Institution. The Institution has invested in green initiatives such as Rain Water Harvesting, Reverse Osmosis Plant, Grey Water Recycling, and water conservation measures. The Institution has taken social responsibility initiatives. They include organizing awareness programmes on road accidents, eye donation, drug abuse, child labour, environmental conservation, turtle protection, etc. Community development programs like blood donation camps, medical camps, community cleaning, walkathon for spreading awareness on water conservation, sapling planting, flood relief campaign, etc to address locale specific concerns for the benefit of the local community is organized. The

Institution has a code of conduct for students, HR Manual explaining service rules for teaching staff and for non teaching staff. The Institution follows transparency in all its financial, academic and administrative activities. The Institution adopts several best practices that include special coaching classes for slow learners, placement training initiatives, coaching for competitive examinations, incentives for students and faculty development, awards, recognitions for meritorious performances and establishment of Sports Academy.

NAAC

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	JAYA ENGINEERING COLLEGE
Address	C-TH Road,Prakash Nagar, Thiruninrav ur, Chennai
City	Thiruninravur Chennai
State	Tamil Nadu
Pin	602024
Website	www.jec.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Rajendran.s	044-26341264	9551329915	-	info@jec.ac.in
IQAC / CIQA coordinator	Raju.s	044-26300982	9994884707	-	iqac@jec.ac.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 of the college	30-06-1995

University to which the college is affiliated/ or which governs the college (if it is a constituent college)

State	University name	Document
Tamil Nadu	Anna University	View Document

Details of UGC recognition

Under Section	Date	View Document
2f of UGC		
12B of UGC		

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	10-07-2021	12	

Details of autonomy

Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No
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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	C-TH Road,Prakash Nagar, Thiruninravur, Chennai	Rural	27.6	43938

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,Civil Engineering	48	H.Sc	English	60	2
UG	BE,Computer Science Engineering	48	H.Sc	English	120	46
UG	BE,Electronics And Communication Engineering	48	H.Sc	English	120	4
UG	BE,Electrical And Electronics Engineering	48	H.Sc	English	60	3
UG	BE,Electronics And Instrumentation Engineering	48	H.SC	English	60	7
UG	BE,Mechanical Engineering	48	H.SC	English	60	0
UG	BE,Aeronautical Engineering	48	H.SC	English	60	7
UG	BTech,Information Technology	48	H.SC	English	120	12
UG	BTech,Textile Technology	48	H.SC	English	40	4
PG	ME,Civil Engineering	24	B.E	English	18	10
PG	ME,Comput	24	B.E	English	18	6

	er Science Engineering					
PG	ME,Electronics And Communication Engineering	24	B.E	English	9	2
PG	ME,Mechanical Engineering	24	B.E	English	18	2
PG	MBA,Master Of Business Administration	24	BBA	English	60	44
PG	MCA,Master Of Computer Applications	24	BCA	English	60	55
PG	Mtech,Textile Technology	24	B.TECH	English	18	10

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	17				18				135			
Recruited	15	2	0	17	17	1	0	18	54	80	0	134
Yet to Recruit	0				0				1			

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				28
Recruited	13	12	0	25
Yet to Recruit				3

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				7
Recruited	4	3	0	7
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.	15	2	0	6	1	0	1	0	0	25
M.Phil.	0	0	0	1	0	0	6	21	0	28
PG	0	0	0	10	0	0	47	59	0	116

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
	0	0	0	0

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

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	464	25	0	0	489
	Female	215	7	0	0	222
	Others	0	0	0	0	0
PG	Male	95	9	0	0	104
	Female	98	3	0	0	101
	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	21	19	30	38
	Female	25	9	19	47
	Others	0	0	0	0
ST	Male	0	0	2	1
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	111	96	114	208
	Female	67	47	60	116
	Others	0	0	0	0
General	Male	28	15	28	30
	Female	6	7	12	24
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		258	193	265	464

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	Our trust has initiated and recommended to implement Multidisciplinary/ Interdisciplinary area for NEP 2020. Recently, we conducted governing council meeting along with all Professionals from Different Disciplines, like all types of Industry, Research, and social or Spiritual People. We prepared of minutes meeting and sending to our affiliating university academic department.
2. Academic bank of credits (ABC):	We have plan to discuss with our affiliating university
3. Skill development:	We are preparing for skill development in Vocational Training Programme for Women under “National

	Skill Development Corporation” (NSDC). Women’s Vocational Training Programme promotes Vocational Training for women for wage-employment in industry, as instructors and also promotes their self-employment.
4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):	We are framing on line course module in music and creative writing with available excellent team of teachers and faculty.
5. Focus on Outcome based education (OBE):	Already we are Focused on Outcome Based Education.
6. Distance education/online education:	We have plan to initiate online certification Courses in association with Industry for students

Extended Profile

1 Program

1.1

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

2020-21	2019-20	2018-19	2017-18	2016-17
450	418	370	370	350
File Description		Document		
Institutional data prescribed format		View Document		

1.2

Number of programs offered year-wise for last five years

2020-21	2019-20	2018-19	2017-18	2016-17
16	16	16	16	16

2 Students

2.1

Number of students year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
923	1140	1613	2049	2346
File Description		Document		
Institutional data in prescribed format		View Document		

2.2

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

2020-21	2019-20	2018-19	2017-18	2016-17
616	622	622	622	622

File Description	Document
Institutional data in prescribed format	View Document

2.3

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

2020-21	2019-20	2018-19	2017-18	2016-17
401	513	591	677	728
File Description	Document			
Institutional data in prescribed format	View Document			

3 Teachers

3.1

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

2020-21	2019-20	2018-19	2017-18	2016-17
173	173	173	222	222
File Description	Document			
Institutional data in prescribed format	View Document			

3.2

Number of sanctioned posts year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
173	173	173	222	222
File Description	Document			
Institutional data in prescribed format	View Document			

4 Institution

4.1

Total number of classrooms and seminar halls

Response: 68

4.2

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

2020-21	2019-20	2018-19	2017-18	2016-17
86.22	216.32	351.12	224.45	213.23

4.3

Number of Computers

Response: 450

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

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

Response:

Based on the Academic curriculum and Calendar from Anna University, The Academic Committee headed by the Principal plans the Institution's academic schedule which includes the details of number of working days, conducting of periodic tests, semester end examinations, evaluation plans, co-curricular / extracurricular activities and the same is conveyed to all faculty members through HODs.

At the beginning of each semester, the head of the departments organize an academic planning meeting to list out the Core course, elective courses and collects the preference of the subject from the faculty members. The courses are allocated based on the preference and experience of the faculty members. Head of the Department assigns the work load comprising both Theory and lab schedule for each faculty member.

Time table coordinators of each department discuss and prepare the timetable for their concerned department considering credit requirement of each subject and finally the master timetable is compiled.

The Faculty members prepare their own course plan and course material for the allocated courses which includes the Syllabus, Lesson plan, Time table, Course Objectives. Course delivery plan is done in quantum schedule based on the number of working days in the academic schedule.

Course files are maintained by each Faculty for the particular subjects allotted, which is reviewed on a regular basis by the HOD and the Principal. Faculty members are encouraged to successfully implement curriculum through innovative teaching methods such as multimedia presentations, seminars, etc., apart from the regular teaching methodologies. Laboratory Manual is prepared for practical courses prescribed by the affiliating University.

Head of Departments do periodical review of the syllabus covered by the faculty on end of every week. As per the academic calendar, Two Assessment Tests and one model examination in each semester will be conducted. Based on the performance in the assessment tests and model examination, slow learners are identified and remedial classes are conducted.

A class committee meeting is conducted twice in a semester and is headed by the Head of the department in the presence of the subject handling faculty of particular class where the Student representative voices their needs and share their feedback and course of actions on the same are initiated.

The heads of the Department conduct department meeting at regular intervals to discuss the syllabus completion, student's improvement and events to be organized, etc.,

To bridge the gap between Academic and industry, each department organizes in-plant trainings, industrial

visits, workshops, seminars, guest lectures, hands on training, internships, etc.,

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

1.1.2 The institution adheres to the academic calendar including for the conduct of CIE

Response:

The academic calendar prescribed by the university is followed with respect of theory and practical classes which contains re-opening date, last working day, Internal Assessment period, commencement of practical and end Semester Examinations.

Assessment Schedule is posted by Anna University mentioning the last date for registration of electives, conduct of first, and second and third assessment exams. The circular comes with information about report period, test period and web portal entry period.

After obtaining the calendar from the Anna University, academic coordinator in conjunction with the IQAC coordinator and the exam cell coordinator prepares the academic schedule which contains assessment examination dates, Holidays, co-curricular activities.

Regarding the Internal assessment examination, the students are internally assessed in three different parts based on the final pattern of the university question Part A- 2 marks, Part B- 13 marks and Part C- 15 marks. Exam cell coordinator and Heads of Department choose one Question Papers with high standards out of two sets Prepared by the subject handlers.

A Revision class classes will be conducted before start of any Assessment examinations. The central valuation system is followed to evaluate the answer scripts of the assessment examination. Assessment examination analysis will be done with the mark sheets prepared by the subject handling faculty members.

Retest will be conducted for the students those who have failed to obtain 65% marks in each subjects. Based on the assessment examination performances, slow learners will be identified and special revision classes will be arranged before the start of end semester examinations to enhance the performance and hope in the end semester examinations.

The assignments are given to the students in such a way to help them attain knowledge on the syllabus topics that are not only university exam oriented but also helps them in gaining relevant knowledge on the respective topics. Head of the Institution takes many initiatives towards our student's excellence to bring the fruitful results in Anna University Examinations.

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

1.1.3 Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years

1. Academic council/BoS of Affiliating university
2. Setting of question papers for UG/PG programs
3. Design and Development of Curriculum for Add on/ certificate/ Diploma Courses
4. Assessment /evaluation process of the affiliating University

Response: C. Any 2 of the above

File Description	Document
Institutional data in prescribed format	View Document
Details of participation of teachers in various bodies/activities provided as a response to the metric	View Document

1.2 Academic Flexibility

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

Response: 100

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

Response: 16

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

1.2.2 Number of Add on /Certificate programs offered during the last five years

Response: 288

1.2.2.1 How many Add on /Certificate programs are offered within the last 5 years.

2020-21	2019-20	2018-19	2017-18	2016-17
43	61	60	61	63

File Description	Document
List of Add on /Certificate programs	View Document
Brochure or any other document relating to Add on /Certificate programs	View Document
Link for Additional information	View Document

1.2.3 Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years**Response:** 94.77**1.2.3.1 Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
904	1012	1501	2056	2199

File Description	Document
Details of the students enrolled in Subjects related to certificate/Add-on programs	View Document
Any 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:**

Jaya Engineering College integrates cross- cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum as follows.

Gender:

Being a co-education institution, both genders are given equal opportunities in curricular, co-curricular and extracurricular activities. Responsibilities are assigned to the students irrespective of the gender and this will help the students to show mutual respect with opposite gender.

Every year Women's day is celebrated in the Institution in a grand manner where all students and faculty members participate in the event. Women Empowerment Cell is developed to increase social, economical and intellectual capacities for peace, security and prosperity of mankind.

Jaya Engineering College has constituted a 'Women's Grievance Cell' as per the orders of the Supreme Court (Vishaka Judgement), 'Sexual Harassment at Workplace Act, 2013' rules with the aim of promoting gender equality and women empowerment among students and staff members.

The cell takes care of the grievances of girl students and female staff members related to gender discrimination, violence and sexual harassment on the campus. It is dedicated to create an environment on the campus where every female feels safe.

Professional Ethics and Human Values

Professional Ethics is offered as a course built in the curriculum to educate students in moral values, integrity and work ethics in the 7th semester with the Course Code as GE8076 and GE6075 for R-2017, R-2013 respectively.

Anti-Ragging is strictly enforced in the campus and a cordial environment is maintained for the students. National Service Scheme provides diversified opportunities to students in our colleges to develop their personality through community services.

Community services rendered by our College students have covered several aspects like adoption of villages for intensive development work, Technology transfer programmes, Technologies for rural development, various technical training programmes for self-help groups and rural youth etc.

Environment and Sustainability

Environmental Science and Engineering offered to all the branches which impart the knowledge on the nature and facts about environment in 2017 and 2013 2008 Regulations with the Course Code GE 8291 and GE 6351.

NSS unit and Green club conduct events like Mass tree plantations and Go Green Projects to inculcate the idea of environmental preservation and pollution free atmosphere among students.

Disaster Management subject which includes in the curriculum helps the students to differentiate the types

of disasters, causes and their impact on environment and society for R-2017 and R-2013 with the Course Code GE8071 and GE6083 Respectively.

Air Pollution and Control Engineering impart knowledge on the principle and design of control of air pollutant and its emerging trends in 5th semester for R-2017 with OCE551 as Course Code.

File Description	Document
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View Document

1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years

Response: 180.58

1.3.2.1 Number of courses that include experiential learning through project work/field work/internship year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
486	630	653	740	937

File Description	Document
MoU's with relevant organizations for these courses, if any Average percentage of courses that include experiential learning through project work/field work/internship	View Document
Any additional information	View Document

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

Response: 100.11

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

Response: 924

File Description	Document
List of programmes and number of students undertaking project work/field work/ /internships	View Document
Any additional information	View Document

1.4 Feedback System

1.4.1 Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders 1) Students 2) Teachers 3) Employers 4) Alumni

Response: B. Any 3 of the above

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

1.4.2 Feedback process of the Institution may be classified as follows: Options:

1. Feedback collected, analysed and action taken and feedback available on website
2. Feedback collected, analysed and action has been taken
3. Feedback collected and analysed
4. Feedback collected
5. Feedback not collected

Response: A. Feedback collected, analysed and action taken and feedback available on website

File Description	Document
Upload any additional information	View Document
URL for feedback report	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average Enrolment percentage (Average of last five years)

Response: 38.08

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

2020-21	2019-20	2018-19	2017-18	2016-17
255	190	262	460	563

2.1.1.2 Number of sanctioned seats year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
901	910	910	910	910

File Description	Document
Institutional data in prescribed format	View Document
Any 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: 49.33

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

2020-21	2019-20	2018-19	2017-18	2016-17
224	171	225	410	502

File Description	Document
Average percentage of seats filled against seats reserved	View Document
Any additional information	View Document

2.2 Catering to Student Diversity

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

Response:

Advanced Learners

- The faculty of all the departments who handle regular classes identify the requirements of the advanced learners and give lectures on the topics in the regular classes itself.
- The students of all the departments are encouraged to take part in symposiums, workshops and seminars to gain knowledge in the advanced topics.
- The students are encouraged to do projects and mini projects in the advanced topics under the guidance of the faculty members.
- Resource persons from industries and academic institution are invited to give Guest Lectures on the advanced topics for the benefit of the students.
- The College library provides lot of journals and eBooks, through which the students gain knowledge on the advanced topics. The faculty members teach content beyond the syllabus, after the completion of the syllabus to enrich the knowledge of the students in the advanced topics.
- Additional laboratory experiments are also conducted after the completion of the regular lab classes.
- The College has signed MOUs with national and International Institutes and organizations. Students are exposed to advanced learning & research through these institutes/Organizations.
- The College encourage the students to undergo various online courses through Coursera, Udemy, Unacademy, Spoken-tutorial and Swayam-NPTEL.

Slow Learners

Slow learners are given special attention in the following ways:

- For every fifteen students a mentor is assigned to monitor the academic performance of the students.
- Class counselors take special care about the slow learners. They interact with the parents on a regular basis.
- HODs take steps to improve the performance of the students.
- Regular tests, re- tests, Slip tests and Home tests are conducted.
- Every Faculty member takes interest in the slow learners.
- Coaching classes are conducted for the slow learners after the completion of the syllabus in a regular manner.
- Faculty conduct coaching classes in the hostels for low achievers.
- Simplified notes are prepared and circulated to students.

File Description	Document
Upload any additional information	View Document
Past link for additional Information	View Document

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

Response: 5.34

File Description	Document
Any 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:

Our institution incorporates many learning methodologies to make the teaching learning process more effective. The learning is made student-centric by the following methods:

1. Developing communication and presentation skills.
2. Library, Internet facility and Language Lab for value addition.
3. Conduct seminars / Guest lectures / conferences so that the student refers many journals and reference books for additional information.
4. Students are trained and encouraged to participate in Paper Presentations / Seminars and prepare project proposals and thus carry out the extension of their learning.
5. Students are encouraged to contribute technical articles to improve written skills.
6. Assigning mini projects and guiding them in solving.
7. Taking students for Industrial visit and training programs.
8. Add on courses to help in developing special skill.

There is a feed-back mechanism followed in the College, where students are encouraged to assess the performances of their faculty with out any fear. Certain changes are made in the allocation of faculty to the classes based on the feedback.

Experiential Learning:

Students are made to have experiential learning as they go through their practical sessions in the laboratories as a part of their curriculum. In addition to the regular laboratories that are prescribed in the curriculum, students are encouraged to form groups and do mini projects. These projects may be related to

the subjects that they are currently studying or they could be connected to any other area of their interest. The mini projects are presented by the students to their peers. In addition value added courses and industry oriented workshops are arranged to give hands on training and exposure to the latest cutting edge technologies. Every semester Industrial visits are arranged for the students to get an exposure to industrial practices.

Participative Learning:

Student centric participative learning methods include periodic endowment lectures, seminars and group discussions on latest technologies. Industry experts and alumni are invited to deliver lectures at the end of which a question and answer session, is opened up. During this time students are encouraged to actively participate and get their doubts clarified. To enhance student participation in diverse activities our institution has various professional societies such as ISTE, EDC, CSI, ISOI, ICTACT etc. Through these societies the students can participate in project contests, paper presentations, coding contests, project expos, workshops, symposia, conferences etc. In addition students participate as a team in National level competitions such as Smart India Hackathons and Google Summer of Code.

Problem Solving Methodologies:

The problem solving capability of the students can be stimulated by making them work on case studies during the internal assessment examinations. Students of various postgraduate and some undergraduate programmes undergo internship programmes as part of the curriculum. Some of the students also take up NPTEL and Coursera online courses to gain knowledge in various subjects in addition to the regular academic curriculum. Industry experts also share problems that can be assigned as final year projects to the students. Analytical subjects in the curriculum are allotted tutorial hours. During these hours problems related to the subject are solved.

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

2.3.2 Teachers use ICT enabled tools for effective teaching-learning process.

Response:

Information and Communications Technology (ICT) can impact student learning when teachers are digitally literate and understand how to integrate it into the academic curriculum. ICT supports, enhances and optimizes the delivery of content. Students who are continuously exposed to ICT have better exposure, presentation skills, innovative capabilities and are ready to take more efforts into learning as compared to their counterparts. Smart classrooms pave a way for learning and understanding the curriculum with ease.

Each department has two or more smart classrooms, provided with LCD projector, system with internet connection and whiteboard. Workshops and guest lectures can be conducted here for effective learning. Staff members use the smart class room to take lectures with the help of photos, maps, graphs, flowcharts and animated videos. This makes learning more attractive, interesting and easy to understand. The presentations are directly shared with all the participants. The students are encouraged to take seminars which include application oriented and technically upcoming topics. NPTEL Video lectures and many other renowned educational websites are available offline in the college laboratories and could be accessed by the students. This will allow them to think and learn practically rather than just grabbing theoretical facts. Google Classroom is to streamline the process of sharing files between teachers and students, which makes learning much more interactive when compared to other common methods. The students submit assignments through the app which can be graded by the course handling faculty.

Our institution makes use of the Google Classroom to share study materials, video lectures of faculty members, question bank and assignment topics with students. Students are asked to submit their assignments within the mentioned deadline. Faculty also form groups with the students of the class (through mobile apps like Whatsapp) and share the necessary course material like course lecture notes, assignment topics, course schedules, question bank etc. This also forms a very convenient, interactive and fast method of communication. Students can also ping the faculty individually and clarify their doubts. Students are encouraged to attend Technical webinars, to gain more knowledge in subjects. E-journals can be accessed in our digital library, which boosts the confidence of the students in publishing and presenting a paper in intra and inter level symposiums, and also in National/International conferences. The placement cell is ICT enabled by means of which students can be given placement training programs by the industrial experts.

File Description	Document
Upload any additional information	View Document
Provide link for webpage describing the ICT enabled tools for effective teaching-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: 5.34

2.3.3.1 Number of mentors

Response: 173

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll.	View Document
mentor/mentee ratio	View Document
Circulars pertaining to assigning mentors to mentees	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 5years(Data Template)	View Document
List of the faculty members authenticated by the Head of HEI	View Document
Any additional information	View Document

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

Response: 8.46

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

2020-21	2019-20	2018-19	2017-18	2016-17
15	14	13	20	20

File Description	Document
List of number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. and number of full time teachers for 5 years (Data Template)	View Document
Any 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: 6.64

2.4.3.1 Total experience of full-time teachers

Response: 1148

File Description	Document
List of Teachers including their PAN, designation, dept and experience details(Data Template)	View Document
Any additional information	View Document

2.5 Evaluation Process and Reforms

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

Response:

The college has an exclusive Examination Cell headed by a Faculty (Exam cell coordinator) for overseeing the conduct of all the internal and external examinations. The exam cell coordinator is assisted by a team consisting of one faculty from each department (Department Exam cell in-charge) and supporting staff members.

The department Exam-cell in-charge is responsible for circulating the internal assessment time table and collecting two sets of question papers from the course handling faculty (with validation and approval), preparing and displaying the seating plan and invigilation duties for the faculty.

Students are evaluated based on their performance in the Internal Assessment Test (IAT). The college academic schedule is prepared based on the affiliating Anna University schedule, which provides information on the examination dates for continuous internal assessment and the same is circulated among students so that students can plan their course of action accordingly.

Adaptation of Outcome Based Education (OBE) Framework:

Question papers are set in line with the requirements of OBE (Blooms Taxonomy pyramid). The questions are also mapped with relevant Course Outcomes (COs) stated for the respective courses.

The faculty evaluates the answer-scripts and the evaluated answer scripts are randomly verified by the senior faculty members / HOD and distributed to the students within two days of the conduct of examination. The faculty members will enter the marks in the given format. The entries made in the mark sheets are cross verified by the year in-charges/counselors while doing their result analysis. The consolidated mark statements is prepared and kept it in the respective file for further process. The IAT performance of the students can be communicated to the parents through post or call.

The internal marks for each course based on the assessments is computed and entered in the Anna University web portal as per the schedule given by the university. The students have the provision to view

their marks in the portal using their login credentials.

The obtained IAT mark (out of 100) is scaled down to 20 marks. The external evaluation of theory courses is conducted by the schedule of Anna University for all the 5 units for a total of 100 marks which is scaled down to 80 marks. The final mark obtained is the sum of the above two scaled down marks.

For practical courses, the performance of students is assessed based upon their performance in the regular practical sessions and model practical examination.

For project work (Final year, Eighth semester) the performance of students is assessed based on subsequent reviews such as Zeroth Review, Project Review-I, Project Review-II and Model Viva Voce examination.

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

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

Response:

The institution has an Examination cell to deal with all examination related activities. The internal assessment examinations timetable is prepared as per the academic calendar provided by the Institution. The schedule and the time table are circulated to all the departments and students prior to the commencement of examination. The timetable is also displayed on the notice board of the respective classrooms. The key answers for the question papers are prepared by the faculty. This will be circulated to the students after all the examinations are over. During the assessments a squad team is formed comprising of the Heads of the Departments. The squad will be on rounds, to monitor whether the exams are conducted smoothly and in an orderly manner.

After the test papers have been evaluated, the papers are returned to the students. The faculty will give a feedback to the class on their test performance. If any student has any grievance that a question has not been evaluated or there are totaling mistakes he/she can take it up with the course handling faculty and the issue is resolved immediately. In case the student is not satisfied he/she can approach the HOD or the Exam Cell. The HOD will deploy a senior course expert to look into the grievance. Scrutiny of answer scripts is done by the senior faculty and HOD to ensure fairness and transparency of the correction.

Assessment marks are entered in the marksheet format given and the entries are cross verified by the year in charges for corrections.

If a student is absent for a test for genuine reasons, he/she is given a chance to take up the test later on, but this is at the discretion of the HOD. If a student happens to be On Duty on the day of the test or examination, he / she is given an opportunity to take up a retest on a later date with a different question paper.

The end semester examinations are conducted and controlled by the Affiliating University and if students have any grievances, the Principal communicates it to the Controller of Examinations of the University. End semester question paper feedback is given to the University through the proper channel, for the out of syllabus questions and discrepancies by the concerned faculty members.

The grievances of the students in external examination at university level are addressed as per university procedures, by obtaining photocopies of the evaluated answer scripts, re-evaluation and challenge valuation by paying a prescribed university fee.

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:

The Vision and Mission statements of the departments, programme educational objectives, programme outcomes, and programme specific outcomes are published in:

- Website of the Institute (<https://www.jec.ac.in/>)
- HOD's Room, Faculty Rooms, Class Room, Seminar Hall and Department Laboratories
- Display Boards on the floors
- Laboratory Manuals
- Communicated in class committee meeting
- Communicated to alumni association

The Course Outcomes of all the Courses in all the Programmes are published in:

- Course Delivery Plans
- List of Experiments Chart at Lab
- Laboratory Manuals
- Course outcomes of each courses are formed by the department faculty mapping with PSO and PO.
- PO, PSO & Cos are displayed in the website department wise.
- PO and PSO are displayed in the Departments and Laboratories.
- COs are given to the students and explained on the commencement of classes in each semester.
- Anna University Programme outcome is followed.
- The entire course structure approved by the Anna University is uploaded in the College website.
- At the beginning of every semester, the Faculty of each Department share and discuss with the students about the course structure through orientation class.
- Copies of the entire syllabi are also kept in the individual department staff rooms for the student's

reference and also made available on the College Website.

File Description	Document
Upload COs for all Programmes (exemplars from Glossary)	View Document
Upload any additional information	View Document
Past link for Additional information	View Document

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

Response:

- The evaluation of attainment of course outcome is carried out based on the performance of the students in continuous assessment tests / assignments and final examinations.
- All the questions used in assessments point to significant course outcomes and the performance of students is a measure of the achievement of course outcomes. These outcomes are available in the course plans.
- Laboratory classes also measure outcomes through the preparations of the students for demonstration and carrying out of experiments and reporting of significant findings.
- Thus, internal assessments contribute to the evaluation of achievement of COs tested through various modes.

Measuring COs attained through End Semester Examinations

The number of students graduating in the stipulated time is an indicator of the attainment of COs of various courses. Attainment of CO is measured using the number of students (as a percentage) who score grade points set for various courses in the Examinations in a given course

Measuring CO attainment

- Target may be stated in terms of percentage of students getting more than class average marks or set by the programme in each of the associated COs in the assessment instruments (term tests, model examinations, assignments, mini projects, reports and presentations as mapped with the COs).
- COs of a particular course are said to be attained through Cumulative Internal assessments and end semester Examinations, if target % of the students scoring more than or equal to a set value of the maximum marks.

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

2.6.3 Average pass percentage of Students during last five years**Response:** 86.48**2.6.3.1 Number of final year students who passed the university examination year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
387	488	431	558	622

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

2020-21	2019-20	2018-19	2017-18	2016-17
401	513	591	677	728

File Description	Document
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View Document
Upload any additional information	View Document
Paste link for the annual report	View Document

2.7 Student Satisfaction Survey**2.7.1 Online student satisfaction survey regarding teaching learning process****Response:** 3.63

File Description	Document
Upload database of all currently enrolled students (Data Template)	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

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

Response: 3.03

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

2020-21	2019-20	2018-19	2017-18	2016-17
1.10	0.62	0.54	0.47	0.30

File Description	Document
List of endowments / projects with details of grants	View Document
e-copies of the grant award letters for sponsored research projects / endowments	View Document
Any additional information	View Document

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

Response: 1.16

3.1.2.1 Number of teachers recognized as research guides

Response: 2

3.1.3 Percentage of departments having Research projects funded by government and non government agencies during the last five years

Response: 29.09

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

2020-21	2019-20	2018-19	2017-18	2016-17
3	3	4	4	2

3.1.3.2 Number of departments offering academic programmes

2020-21	2019-20	2018-19	2017-18	2016-17
11	11	11	11	11

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

3.2 Innovation Ecosystem**3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge****Response:**

Jaya Engineering College(JEC), established MHRDs Institution Innovation Council (IIC) to systematically foster the culture of Innovation among the students across various departments inside the Institute. The focus of IIC is to encourage, inspire and nurture students by supporting them to work with new ideas and transform them into prototypes.

Innovation , Research & Development (R&D) Cell is performing the following activities

- Motivating the importance of research amongst faculty members and students.
- Motivating the research collaborations with industries.
- Motivating the faculty members and students for higher education.
- Organizing the workshops, seminars, invited lectures, webinars and conference
- Encouraging the faculty members for doctoral programme.
- Encouraging the faculty member to enhance the paper publications.

The roles and responsibilities

- To support the faculty members to conduct various technical events such as workshops, training Programs, seminars, conference and symposia.
- Take up appropriate problems of the industry for finding solutions through R&D projects assigned to faculty and students.
- To accelerate the research few each department, SEED Fund Support for departments was provided by the management.
- To facilitate the students and faculty to work on In-House projects and publications.

- To initiate and promote MoU with industries and R&D organizations for consultancy, collaborative research, sponsored projects, industry institute interactions etc.
- To arrange brainstorming sessions through talks by eminent personalities from Industry R&D organizations and institutions of repute for the better understanding of research methodology and practices currently followed.
- To keep everyone informed about announcements by various funding agencies like TNSCST, DRDO, ISRO, CSIR, AICTE etc..
- To motivate students and faculty for presenting papers in National and International conference and in reputed journals.
- To motivate and encourage students participation in competitions and exhibitions conducted by HACKATHON, MANTHAN IIT'S, NIT'S, Anna University, and TIMES, SMART to conduct soft skill development program for the final year students to improve their communication skills.

The roles and responsibilities of Entrepreneurial Development Cell (EDC)

ENTREPRENEUR DEVELOPMENT CELL (EDC) have been actively conducting program in entrepreneurship with concreted initiatives to promote entrepreneurship among the students.

The broad objectives of the ED Cell would include:

- To create awareness on entrepreneurship among students,
- To inculcate entrepreneurial spirit and culture among the Science and Engineering graduates and post graduates.
- To conduct programs in entrepreneurship enabling skills.
- To identify and motivate budding entrepreneurs.
- To create a database on industrial information to facilitate entrepreneurs by providing information on entrepreneurial opportunities.
- To guide the prospective entrepreneurs in knowledge based ventures.
- To help entrepreneurs to acquire necessary skills to run the industry effectively.
- To bridge the gap between Industries and Institutions by carrying out the research activities for the industries.
- To provide need-based consultancy services of industries.

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

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

Response: 15

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

2020-21	2019-20	2018-19	2017-18	2016-17
4	4	2	3	2

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

3.3 Research Publications and Awards

3.3.1 Number of Ph.Ds registered per eligible teacher during the last five years

Response: 0

3.3.1.1 How many Ph.Ds registered per eligible teacher within last five years

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

Response: 2

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	View Document

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

Response: 0.14

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

2020-21	2019-20	2018-19	2017-18	2016-17
3	5	6	8	5

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

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

Response: 0.13

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

2020-21	2019-20	2018-19	2017-18	2016-17
5	12	4	4	1

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

3.4 Extension Activities

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

Response:

The extension activities in the neighborhood community create a wide impact on students while they sensitizing on social issues and holistic development which are carried out by students who represent National Service Scheme and Youth Red Cross. The Institution has provided the opportunity to individual student to be part of any service according to their choice. National Service Scheme provides diversified opportunities to students in our colleges to develop their personality through community services. Our students have covered several aspects like adoption of villages and Schools for intensive development work, Technology transfer programmes, Technologies for rural development, various technical training programmes for self-help groups and rural youth etc through community services.

Some of the noteworthy neighborhood activities

Rally was carried out by the students and faculty of the Institution on “Tobacco Free India”. To support this, Students distributed hand-outs and covered 10-kms from the Institution. The performance of students on skits and slogans had a good impact on the neighborhood during Rally.

Marathon was carried out by the students and faculty of the Institution on “Go Green Project” which stimulated students and public to avoid the usage of Plastics.

Swatch Bharat-Cleanliness and Hygiene activities reinforced health and wellness to the neighborhood through NSS Volunteers.

NSS Project–Green Avadi, KALAM GO GREEN and Seed Ball Preparation Drive were conducted for the benefit of Public in adopted villages.

Swatch-Bharath-Abiyan-PLOGATHON “Environmental Cleaning Programme” was conducted in two Adopted villages Thirur and Nadukuthagai.

Making India Clean-Swatch Barath Abiyan Campaign was conducted on Gandhi Jayanthi every year at Nemilichery Railway Station to create Awareness among Public.

SWATCHATHON-Environmental Coastal Cleaning Programme Conducted at Marina Beach, Chennai. It had a larger impact on students in reaching out to the population.

Plastic GOTTA-GO-Programme conducted at Forum Mall, Chennai. Objective-To make Paper Bags and spread awareness to avoid plastics.

AZADIKA-HIV/AIDS, TB and Voluntary Blood Donation and Cancer Awareness Campaign were organized to create health consciousness among the Public in the Adopted Villages.

An Eye, Medical and Blood Donation Camps were arranged in collaboration with Government Hospital-Thiruninravur. This free consultation service was welcomed by neighborhood.

Road Safety Programme was organized to explain the dangers of violating traffic rules (not wearing helmets, rash driving, drunken drive etc) which was well received by the audience.

Varadha Cyclone relief aids was initiated with the help of Institution and freebies were collected by NSS volunteers. It helped greatly to the poor and affected population.

Digital India Project Bank Work–Financial Inclusion, Aadhar Seeding of Bank Accounts, Engaging NSS Volunteers for Digital Literacy Programme at SBI-Thiruninravur. It had larger impact on students in reaching out to the public.

NSS Volunteer involved writing and teaching for the Visually Handicapped Students at National Institute for the Visually Handicapped-Karayanchavadi every year.

The Institution also organized various programmes like RASHTRAGAAN, Mass Tree Plantation, Save Turtle Campaigns, COVID Vaccination Awareness, Pulse Polio Immunization, Dengue Fever Awareness, National Voter’s Awareness, Drugs Awareness, International Day of Yoga, Health and Fitness Awareness Programme to the public to bridge our institution with community.

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

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

Response: 17

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

2020-21	2019-20	2018-19	2017-18	2016-17
2	2	6	3	4

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

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

Response: 96

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

2020-21	2019-20	2018-19	2017-18	2016-17
11	18	22	37	8

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

3.4.4 Average percentage of students participating in extension activities at 3.4.3. above during last five years

Response: 86.82

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

2020-21	2019-20	2018-19	2017-18	2016-17
923	1140	1613	2049	800

File Description	Document
Report 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

3.5 Collaboration

3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year

Response: 107

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

2020-21	2019-20	2018-19	2017-18	2016-17
23	22	22	21	19

File Description	Document
e-copies of related Document	View Document
Details of Collaborative activities with institutions/industries for research, Faculty exchange, Student exchange/ internship	View Document

3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years

Response: 12

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

2020-21	2019-20	2018-19	2017-18	2016-17
0	2	4	3	3

File Description	Document
e-Copies of the MoUs with institution/ industry/corporate houses	View Document
Details of functional MoUs with institutions of national, international importance, other universities 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:

Jaya Engineering College includes a well-maintained green campus spread over an area of 27.6 acres ensuring adequate access and efficient use of solid infrastructure to teach learning activities. College building comprises of administrative office, education departments, lecture halls, library, workshops and computer labs. The college purposes is to create and develop infrastructure for the quality teaching environment. The college has extensive links to IT resources for the benefit of students.

The college ensures that all students have the opportunity to acquire and develop personal and flexible skills, such as technical communication and teamwork skills, which are directly relevant to their future studies. The laboratories are well equipped and cautiously maintained. There is enough space for students to do all the prescribed tests and do the project work.

Our college management has a set of goal to creating and uplifting infrastructure that facilitates teaching and learning for students, especially in rural areas. Management has a good way of developing infrastructure resources and provide development funding as needed. Infrastructure is designed to develop an institution that can provide better services for effective teaching and learning processes.

Infrastructure and learning resources are classified as follows:

(a) Learning resources include the necessary resources and infrastructure for the library, laboratories, computer center, classroom teaching, events, symposiums and conferences.

(b) Support services include hostels, canteens, and auditorium.

(c) Consumables include safe drinking water for healthy purpose. Classes are designed to take full advantage of the existing visual infrastructure.

(d) Upgrading of IT infrastructure in the current developments and technological advances to meet teaching and learning needs.

(e) Central library is an integrated resource center and each department has its own library resources. The college continually strives to create and develop infrastructure for both in terms of infrastructure and other resources in order to provide a conducive learning and teaching environment.

Classes:

The college has adequate classrooms with wide passages. The size of each class is in accordance with the procedures specified by AICTE. Each department for the successful implementation of technology in the teaching of standard procedures.

Laboratories:

All laboratories are well equipped with sufficient facilities and accordance with AICTE procedures. The department has its own computer lab with the latest software to meet its educational and research needs. In addition to the general curriculum, students are encouraged to pursue their studies / project work in emerging research areas. College has adequate computers with the latest version of Software updated periodically. Student-to-computer ratio is maintained according to AICTE standards. Students are given individual computers for all laboratory hours and are encouraged to work for academics. These labs are used to conduct classes in accordance with the requirements of the curriculum. Labs have sufficient software and open source tools to cater for industry-based curriculum and teaching needs.

Seminar Hall:

The college ample seminar halls, which often used for conferences and seminars in college. Students are encouraged to take an active part for presenting paper, symposium and group discussions in the above seminar hall.

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, sports, games (indoor, outdoor), gymnasium, yoga centre etc.

Response:

In our college, Students participate in various sports competitions organized on campus and outside the campus. Our college organizes an annual sports competitions for students. Outdoor and indoor sports are encouraged among students to train them in skills such as leadership, team spirit and competition.

Sports: -

Our college has a ample for various sports activities like volleyball, cricket, basketball, Yoga. The games are played under the guidance of a Physical Director. These places of physical activities are regularly used by our students for recreation, practice and performance. The evening scenario in our college is full of enthusiasm, very sporty and all these sports areas are occupied according to the student's specific interests. Some of our staff members get involved in such events with students keeping in mind the health benefits of working out in a nature centered zone and active environment.

Games (indoor, outdoor) Facilities:

In our college, there are sufficient numbers of play grounds for organizing indoor and outdoor sports activities. Sports facilities for students such as volleyball, basketball, cricket and table tennis etc. are available. The students and staff are encouraged and provided with all necessary facilities to participate in inter college and other sports activities.

Yoga Facilities:

In addition to academics, our college performs many cultural and physical activities on a regular basis. "Yoga activities" are designed for a healthy body, mind and soul. Students are trained in an open hall. Our student community gain more physical strength and get rid of all physical difficulties and sicknesses after doing yoga. Our student Mental strength gained in yoga helps students to fight against inconsistencies with increasing self-confidence which looks more powerful. Benefits enjoyed our students in the following four ways like Physical Health Empowerment, Emotional Empowerment, Mental Health Empowerment and Spiritual Empowerment.

Cultural activities:

Our college students regularly encouraged for cultural activities. As cultural activities are an important part of research, students are allowed to participate in a variety of cultural activities within and outside the institution. Our student's personal growth increased after cultural through learning skills, meeting new people and passing on cultural values. The center has an outsized hall, with excellent acoustics and a large number of seating areas for cultural activities. An exercise session for cultural activities such as sports, acting, traditional dance and street games is held in the hall. The programs are designed to provide ethics, public service, environmental protection and patriotism.

In our college, Certificates of eligibility and participation are provided to students on different events. In addition to cultural clubs, the center also has professional career clubs such as a coding club. Our Students join these clubs according to their interests and are encouraged to actively participate and showcase their talents and abilities.

Various clubs and activities are run by the department and provide students with a competitive and encouraging platform for full student development.

File Description	Document
Upload any additional information	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: 39.71**4.1.3.1 Number of classrooms and seminar halls with ICT facilities****Response:** 27

File Description	Document
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)**Response:** 8.97**4.1.4.1 Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
0	97	0	0	0

File Description	Document
Upload Details of budget allocation, excluding salary during the last five years (Data Template)	View Document

4.2 Library as a Learning Resource**4.2.1 Library is automated using Integrated Library Management System (ILMS)****Response:**

The Central Library at Jaya Engineering College in the area of 1251Sq.m with nearly 46,166 books, national journals, e-journals and CD-ROMs in addition to other department Libraries.

It is automated using Integrated Library Management System (ILMS) computerized with Gloind, Technologies and Services. This software is used to perform various operations like circulation of books, student membership creation, books acquisition, periodicals entry, and report generation categorized by title, author, accession number, subject, department, publication etc.

The OPAC (Online Public Access Catalog) system is provided for the users to search the availability and

collection of books, Journals, Projects and the latest library Resources.

System Administration

S.no	Name of the ILMS Software	Name of the ICMS Software Company	Nature of Automation	Version/Year of automation
1	Auto Lib	GLOIND Technology & Services	Fully Automated	V2.0/2009

USER MODULES

Check your status: In this module the users can know about the details of Resources borrowed in the library.

Books: In this module the availability of the Resources can be searched through title, author, accession number, master no, title and author, subject and publisher wise.

ADMIN MODULES:

1, Master module

This module is used by librarians, this module consists of various master entries like, users entry, barcode creation, books acquisition, periodicals entry, department ,courses, special circulation entry and non-book material details etc.

1. Users module

In this module the details of the students and staff members are uploaded.

- 1.Barcode generation: this module is used to generate the barcode of users and printed using the barcode printer.
- 2.Acquisition module: this module is used to update the new arrivals of books.
- 3.Periodical module: this module is used to upload the journals and magazine details.
- 4.Departments and courses available master entry.

2. Circulation Module:

This module is used to check-out, check-in, reservation, and special circulation of the library resources.

3. Report Generation Module:

This module is designed to generate and print different kinds of reports such as books circulation report, books and periodicals reports categorized by accession number, author, subject, title, department, text, reference, overdue, publishers, vendors etc.

Library buildings have provision for both individual and group studies. We have specialized books like encyclopedias, handbooks, competitive books and expensive reference books to improve the knowledge of students and faculties.

- Adequate space is provided for reading and refer the library resources.
- Our library has a separate periodical section for accessing the journals, magazines etc.
- Library has a reading hall with seating capacity of 150 members, e-resources can be accessed in our digital library which has nearly 10 pcs. Wi-Fi facility is also provided in the library.

The central Library has a collection of 46,166 volumes with 17,881 titles, 2,554 back volumes and 3,158 project reports.

Our college library follows an open access system and the reference section follows a closed access system. Books are classified according to department wise and subject wise and are placed on the stacks. The books are being lend for 15 days to UG and PG students. Faculty members are lend for one semester.

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

4.2.2 The institution has subscription for the following e-resources

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases
- 6.Remote access to e-resources

Response: B. Any 3 of the above

File Description	Document
Upload any additional information	View Document
Details of subscriptions like e-journals, e-ShodhSindhu, Shodhganga Membership , Remote access to library resources, Web interface etc (Data Template)	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: 1.04

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)

2020-21	2019-20	2018-19	2017-18	2016-17
1.005	0.702	0.835	1.655	1.015

File Description	Document
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the last five years (Data Template)	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: 10.49

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

Response: 115

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 frequently updates its IT facilities including Wi-Fi

Response:

Our College upgrades its IT infrastructure regularly to meet the current technical requirements. The college has very strong IT infrastructure and fulfills the norms of AICTE and Anna University. The College was formerly availing internet service from Airtel with 30 Mbps band width provided by Airtel.

Wi-Fi connectivity of 30 Mbps is provided in the administrative and academic areas through Wi-Fi router from M/s. Airtel. Additionally Ethernet ports are provided all over the campus for laptops/devices in need of internet connectivity. V-LAN network facility is implemented to connect all the systems with internet.

There are a total of 920 computers available in the college premises. The staff are provided with LAN or Wi-Fi facility to enrich the teaching - learning process. Wi-Fi facility is also provided for both boys and girls hostels for enhancing their skills through online courses, projects and for downloading extra study materials.

Sonic firewall is available as a next-generation firewall. It offers stateful and deep packet inspection over the network, application and user identity-based security. It protects the organization from DoS, DDoS and IP spoofing attacks. It is provided to prevent unauthorized internet users from/to accessing private networks connected to the internet, especially intranets.

The college plans towards the usage of Information and Communication Technology at all levels of interactions with the stakeholders by a adequate software system. This system helps the college to collect, store and manage data effectively from various departments and units. A professional network system administrator takes care of the IT related needs of the campus such as hardware and networking.

The institution has adequate operating system software and required number of application software, which are used to continuously facilitate the operations of the various departments. All laboratories are continuously updated with latest version of computers.

The college has well established language laboratory to enhance communication skills of students. Window servers are available for smooth conduct of various activities such as online examinations, hands on training, online competitive exams, etc. For uninterrupted computing, UPS is available in all computer laboratories.

Up gradations in IT Facilities are mentioned below.

Wi-Fi Facility : M/s. Airtel

Name of the Internet provider : M/s. Airtel

Available Bandwidth : 30 Mbps

Wi-Fi Availability : Available in administrative and academic blocks
Security arrangements: Firewall enabled in server

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: 2.05

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: B. 30 MBPS – 50 MBPS

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

4.4 Maintenance of Campus Infrastructure

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

Response: 11.13

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

2020-21	2019-20	2018-19	2017-18	2016-17
5.45	22.12	24.54	36.12	34.12

File Description	Document
Upload any additional information	View Document
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	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:

Introduction:

JEC has a structured system for maintenance and utilization of class rooms, computers and laboratories in the campus to ensure effective usage of the existing infrastructure facilities. The physical facilities are maintained by the Maintenance Team, which comprises skilled faculty for supervision and Lab technician for service all departments. The maintenance team is responsible for the uninterrupted power supply, maintenance of equipment like general lighting, power distribution system, water pumps, etc.

The Maintenance Team members monitor the maintenance and cleanliness of the buildings, classrooms, labs, furniture, campus ground, sports facilities, staff lounge, students amenity areas, cafeteria and hostel buildings. Housekeeping services are maintained by the in-house team and available during day time in all working days. Cleaning of vehicles, air filing and small repairs are undertaken by the transport department inside the college. The college has appropriate systems and procedures for maintaining and utilizing physical, academic and support facilities.

The request for maintenance is initiated through the service request form available, through which the particulars about the nature of maintenance is informed to the authorities for corrective action. After getting approval for the request, the maintenance team will attend, diagnose the fault and rectify it or else suggest for external services from suppliers or other service providers.

Maintenance of Network Infrastructure & IT Support:

Routine computer maintenance, software installations, networking issues are handled by the System support staff. Maintenance of computing facilities, other IT support, LCD projectors maintenance etc is also carried out by team of technical staff under system admin.

Students & faculty can register their complain/request related to lab equipment's in the laboratory which are attended on priority basis.

The equipment with major repair, are repaired by outside agency. After receiving quotation for maintenance and repair charges, necessary approval from college authorities and management is taken. Thereafter the, equipment is sent for repairing by issuing gate pass and the status of repair work is tracked. Respective head of the departments also monitor the effective utilization of the laboratories.

Maintenance of Buildings and Infrastructure:

Maintenance of buildings and related areas are undertaken by the Admin department. Maintenance staff consists of Electricians, Carpenters, Plumbers and other service personnel. Admin office and his team are involved in the monitoring & maintenance of infrastructure facilities. This team looks after the regular maintenance of civil works such as furniture repairs, masonry and plaster works, painting, carpentry, plumbing and house- keeping.

Adequate in - house staff is employed to meticulously maintain hygiene, cleanliness and infrastructure on the campus so as to provide a congenial learning environment. Classrooms, Staffrooms, Seminar halls and Laboratories, etc are cleaned and maintained regularly by Non - teaching staff assigned for each floor.

Wash rooms and rest rooms are well maintained. Dustbins are placed in every floor. Physical resources like Class rooms, labs, seminar halls, auditorium, hostels etc come under daily maintenance. The Admin department takes rounds of all the class rooms and auditorium properly maintained periodically. The institution has a structured system for maintenance and utilization of class rooms, computers and laboratories in the campus to ensure effective usage of the existing infrastructure facilities.

Maintenance of computer facilities

The Computer Science department and Maintenance Team members maintain the computers, printers and servers. The annual maintenance includes the required software installation, antivirus and up gradation is undertaken by the team of technicians coordinated by the system administrator. To minimize-waste, electronic gadgets like projectors, computers, printers, photocopiers are serviced and reused.

Maintenance of laboratories equipment

The respective faculty members, lab assistants and other service personnel are given responsibility to maintain the equipment's under their purview. Stock registers, maintenance registers and log books are maintained in the respective laboratories to report entries and defects arising for rectification. The lab assistants are provided training to maintain the equipment by the HoDs time to time enhancing their technical skills.

Library Maintenance:

The library need to be maintenance on routine basis. It has computer terminals with internet facility and large reading spaces. A regular update on new additions is provided by the library. The librarian is the in charge for handling all the maintenance works required in the library through maintenance staff. He takes care of utilization of books, computers and other learning materials in the library. The support staff regularly monitors the library to ensure and maintain all text books, reference books, articles, competitive examination books, magazines, journals, e-magazines, e-books and e-journals. Regular swabbing of the library sections, regular cleaning of the racks, up keeping the quality of the books with needed binding are in place

Sports and Games:

The Sports officer takes responsibility for all repairs pertaining to sports equipment and courts. He has to maintain courts properly on daily basis with the help of the maintenance staff.

He maintains sports facilities through regular monitoring of the equipment for indoor games and outdoor sports. The institution has a well maintained infrastructure for sports like cricket, basketball, volleyball, badminton, football etc.

Electrical Facilities:

Electricians are available round the clock to address power breakdown. Admin department monitors the services of electricians. They perform regular checks in classrooms and in the campus to ensure that all electrical fittings are in excellent condition.

Maintenance of other amenities: RO consumables, membranes, filter and chemical which are to be replaced /recharged is covered within the annual maintenance contract made with the company. Cleaning of the tank is done once in three months to prevent fouling smell and deterioration/impairment in the taste of the water. The campus is equipped with 24/7 safe and adequate drinking water supply using water purifiers under maintenance of supplier and in-house technicians. Regular maintenance of water coolers and air conditioners are done by the in house team and major repairs are attended from external service providers. The tanks of the water coolers, filters and outdoor units of air conditioners are cleaned periodically.

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: 6.15

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)

2020-21	2019-20	2018-19	2017-18	2016-17
106	72	40	114	115

File Description	Document
upload self attested letter with the list of students sanctioned scholarship	View Document
Upload any additional information Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years (Data Template)	View Document

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

Response: 2.48

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)

2020-21	2019-20	2018-19	2017-18	2016-17
40	36	31	31	34

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

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

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

Response: E. None of the above

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

5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years

Response: 0

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

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

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

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

Response: A. All of the above

File Description	Document
Upload 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: 50.68

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

2020-21	2019-20	2018-19	2017-18	2016-17
170	247	316	375	393

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

5.2.2 Average percentage of students progressing to higher education during the last five years

Response: 28.43

5.2.2.1 Number of outgoing student progression to higher education during last five years

Response: 114

File Description	Document
Upload supporting data for student/alumni	View Document
Details of student progression to higher education (Data Template)	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: 10

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

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	3	0

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

2020-21	2019-20	2018-19	2017-18	2016-17
8	3	5	6	4

File Description	Document
Upload supporting data for the same	View Document
Number of students qualifying in state/ national/ international level examinations during the last five years (Data Template)	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: 14

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

2020-21	2019-20	2018-19	2017-18	2016-17
0	1	1	5	7

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

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

Response:

The Institution motivates student participation in many of its administrative activities. The authorities strongly believe that an effective outcome could be achieved only with the proper feedback system wherein, the major stakeholders are involved in the process, formulating the procedure and focusing on more responsibilities for its actions. This creates leadership qualities, team spirit and experiential learning capacity. The students form part of the following committees.

We do not have an overall student council but we have the following committees that have student representatives to attend meeting and to participate an open chance to express their needs and inconveniences for remedial action.

Class Committee :

The aim of a Class Committee is to ensure that all curricular and extra-curricular activities of the class are carried out smoothly to focus the class as a whole. Class Representatives make sure that student's views on academic matters are observed which creates an ambiance for desirable learning

Cultural Committee:

Accumulate the information needed for the college magazine. Publish Newsletter every month and update all information in the website.

Sports Committee:

Conduct sports events. Make students participate in the sports activities in the university level.

Women Committee:

Women welfare committee is established to nurture a good platform to enable their skills in different area and has been constituted to safeguard the well-being of all the women employees and girl students. The main function of this committee is to prevent sexual harassment and create awareness about women's welfare.

Discipline Committee:

Monitor the latecomers. The main focus on this committee is to educate the student to follow moral activities. Monitor the dress code of students. Ensure students discipline inside the college campus.

Anti Ragging Committee:

Ensure the implementation of guidelines / order issued by AICTE / UGC / UNIVERSITY / GOVT. In order to prevent ragging inside the college campus.

Student Support Committee:

Perform admission related activities. Publish the list of scholarship students. Support education loan.

Hostel mess Committee:

Monitor the internet facility in the hostel. Monitor the students during study hour. Monitoring the activities of the hostel students. Maintain the cleanliness in hostel. Maintenance of common facilities. Interact with student on regular basis.

Transport Committee:

Arranging transport facility for students and staff.

NSS Student Volunteers Committee:

Conduct NSS activities for the college.

CO- CURRICULAR ACTIVITIES:

The Co-curricular activities develop teamwork, knowledge, positive attitudes and effective human relation skills. The students themselves deliberately involved in various technical events such as Mini Project, Project Presentation, Symposium, Poster Presentation, Workshop, Quiz Competition, Ethical Hacking.

EXTRA CURRICULAR ACTIVITIES:

Students are actively involved in Cultural and Sports activities such as Wenonix, Plugins, Sintacs's, Vidiyal-Inter Colligate Program Ethiraj College- Face Painting, Swach Baharat Abiyan Programme-Essay Competition, Marathon Race-Anna University.

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 in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 4.6

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

2020-21	2019-20	2018-19	2017-18	2016-17
4	5	4	5	5

File Description	Document
Upload any additional information	View Document
Number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions (Data Template)	View Document

5.4 Alumni Engagement

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

Response:

Jaya Engineering College Alumni Association is well known for its progressive contribution in imparting knowledge and helping fresh graduates to face the global challenges. Jaya Engineering College Alumni Association also plays a vital role in providing job opportunities and paves a perfect platform for students to develop their qualities.

Jaya Engineering College Alumni Association being the backbone of the college is extending their continuous contribution in many ways for years in binding the beneficial relationship between the college

and its alumni.

CONTRIBUTIONS

PLACEMENT

The Jaya Engineering College Alumni Association plays an important role in this area because they recruit or help students to get placed in their respective field of study. The Alumni of the Jaya Engineering College are always ready to show concern for their college students in recommending and recruiting candidates in their work place and in their work circle.

INTERNSHIP / IMPLANT TRAINING

Most of our alumni are placed in a well reputed company. So they extend their hand when final year students are in need of availing internship program and implant training. The Alumni of Jaya Engineering College also easily fix the students in their respective domain.

CAREER GUIDANCE

Alumni are a massive talent team whose guidance is always beneficial to Jaya Engineering College. Periodical online seminar is conducted by the Alumni of Jaya Engineering College to impart the knowledge to the students. The college often conducts webinar by inviting the alumni from abroad to have interaction session with students to develop the students' skills in their respective area. Many of our Alumni working in various reputed firms turn up to their respective departments regularly to guide their department students and give awareness about the recent trends in their respective area of study.

SEMINAR /SYMPOSIUM

The happy note about the Jaya Engineering College Alumni Association is to provide needful resource in the time of seminar /symposium.

They do-

- Conduct training/ seminars to students on various topics to enhance their skills.
- Bringing influential resource person to inspire students to enhance their skills and ambition as well. Moreover, once in 3 months, the Jaya Engineering College Alumni Association brings alumnus to have direct contact with students to share and impart their knowledge in their respective field or domain.

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

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

Response: C. 3 Lakhs - 4 Lakhs		
File Description	Document	
Upload any additional information	View Document	
Link for any additional information	View Document	

NAAC

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

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

Response:

In our college the nature of governance, perspective plans and participation of the teachers in the decision making bodies:

The Board of Management, Governing Council and Academic Council including of eminent academicians, industrialists, scientists, affiliating university representatives and government higher education representatives meet regularly and initiate the activities of the institution. In tune with the Vision and Mission of the institution, society and stakeholders, initiatives are planned. Every effort with admiration to the commencement of new programs, development of infrastructure, invention and spreading of strategy follow the bottom to top approach. The implementation process is further discussed with the Principal and Heads of the departments for execution.

The perspective plans are organized by the Principal in consultation with Department Heads of Core Engineering, Science and Humanities and Functional Heads of Various committees, bodies and cells. Our college ensures quality standards in teaching learning process, evaluation system and other related activities through good distributed systematically.

The Principal assisted by HODs, Administrative head, In-charges and Coordinators of various cells/committees conducts numerous quality upgradation programmes in our college. HOD's set up the effective arrangement for their departments with the accord of the Principal. Faculty and staff are assigned with the roles and responsibility to work in a pleasant environment with complete transparency. HODs conduct periodic meeting in the department. The suggestions given by the faculty members, students and other stake holders are incorporated as minutes and discussed with the Principal. The Principal gathers the important issues from all the department HODs and frame the agenda for Academic Council Meeting and Governing Council Meeting. Affirmed decisions are circulated among the stakeholders for execution. The management ensures a smooth flow of information top down and bottom up concrete way for good cooperation among the stakeholders.

The Head of the Department in turn distributes duties like Counseling, mentors, Lab-in-Charge among the faculty. The college deputed the faculty members from all departments to conduct conferences, seminars, workshop, orientation programme, short term training programmes to strengthen their leadership qualities. A judicious mix of junior and senior members in various committees enables the junior members to absorb the work culture of the senior members. During the conduct of seminar/ workshop, symposium at department level, committees are formed with staff and students for discharging the allotted assignments. When functions are held at the college level such as College Day, Sports Day, Hostel Day etc., the entire teaching and non-teaching staff are deployed in different committees for the successful conduct of the functions.

The institution provides the faculties different roles in various committees like Academic Council, Placement, , Grievance Redressal , Sports , Anti ragging, Cells like Internal Quality Assurance, Anti-

Sexual Harassment , Student Development , Entrepreneurship Development to develop themselves. The faculty members also contribute in various forums like Computer Society of India, IEEEs. The outcome of the discussions in the committee/cell/bodies are noted and forwarded to the Head of the Institution who in turn discusses appropriate matters with Hods and if required submits to the Academic Council and Governing Council for Ratification.

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

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

Response:

In our college cheers and stimulates the culture of decentralization and participative management. The faculty members involve themselves in administrative roles and manage responsibilities by taking the roles such as Heads of the Departments, Wardens, Faculty in-charges etc. They associate themselves with various committees namely Alumni cell ,Purchase committee, Academic Discipline committee, R&D cell, Class Committee, Entrepreneur Development Cell and many more. The faculty members are vigorously involved in driving a change through the Mission of the Institution in order to identify and design the road map to attain the Vision of the Institution.

Case study: Purchase of Laboratory Requirements

The laboratories are upgraded to enhance the students' practical knowledge and to make them compete with the standard of the industry. The hardware and software equipment, consumables and spare parts are bought with the help of the purchase committee. The meeting with the budget committee is conducted every academic year during the first week of April in all departments. It assists to frame the budget based on the requirements for upgradation and the maintenance of the lab for the following academic year. The annual budget is prepared by the Head of the Department and the same is approved by the Management.

The Lab-in-charge and the Faculty of the particular laboratory request the requirements to the Head of the Department prior to the commencement of the semester. The Head of the Department organizes the purchase meeting with the faculty members of the concerned department who are aware of the requirements of the equipment in the laboratory. The Head of the Department prepares the budget for the semester by taking the reference of the quotations. The Principal forwards the budget requisition given by the Heads of the Department to the management for approval. The process of approval takes place every year.

Once the approval is approved by the Management, the same will be communicated to the Heads of Department through the Principal. The Purchase committee verifies the sorted quotations that are submitted by the department based on the requirements of the upcoming semester. Finally, they will approach the vendor to place the order. It is apparent that the process of purchasing the lab requirements is

initiated by the Lab Assistant concerned in consultation with the Lab Faculty In-charge. Thereby, the Faculty In-charge of the Laboratory consults with the Head of the Department and decides on the specification and the make/model of various equipment. There is no interference whatsoever from any of the authorities above the Head of the Department.

The quotations are received from vendors decided by the department and comparative statements are presented to the purchase committee. Without compromising on quality and standard desired by the departments, the purchase committee will negotiate and place orders for the requirements. The management ratifies the decision taken by the purchase committee which shows the participation of the management at the appropriate level.

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

6.2 Strategy Development and Deployment

6.2.1 The institutional Strategic / Perspective plan is effectively deployed

Response:

The Institution has strategic plan for Institutional evolution and improving teaching and learning process, promotion of research among faculty members and students. It also provides more faculty development program, improving entrepreneurship development cell, enhance the industry institution collaboration, placement and training activities, enhancement of infrastructure and extracurricular activities.

Strategy#1: To establish better academic practices and procedures.

Strategy#2: To be a choice for good quality students and competent faculty.

Strategy#3: To produce technically competent and ethically strong graduates.

Strategy#4: To encourage Research & Consultancy.

Strategy#5: To develop a smart campus.

The tasks involved for this strategy are

1. Revision of curriculum & academic regulations:
2. Revision of examination regulations & procedures

3. Introduction of best practices

4. MoUs with industries and research institutions

5. Self and Collaborative Learning Initiatives

The institute is to introduce new courses such as Skill Development Courses: Communication skills, Soft skills and Technical skills and also Human Values and Professional Ethics courses and Co-curricular (CCA) and Extra-curricular Activities (ECA) in a structured manner. The introduction of the courses and the activities helped in improving communication and technical skills of the students and in turn their placement opportunities and preparing them for higher studies.

The academic and non-academic reforms are a continuous process under autonomy and are being implemented progressively. The pattern of question paper for continuous internal evaluation was revised incorporating Blooms Taxonomy levels. All these changes were made to place more emphasis on Paper presentations; Mini projects have been introduced in the curriculum to improve the experiential learning of students.

Further the eligibility and promotion rules for the students have also been revised. The details are given in the additional information. MOUs have been entered into with various industries for the purpose of internships, guest lecturers for students, faculty training, consultancy and research. It is now made compulsory for the award of degree for the students to register for online course and acquire certification from agencies such as NPTEL. Self-learning initiatives have been introduced through teaching learning methodology.

Successfully Implemented:

The Placement Department providing various training modules related to the students specialization and to render the perspective career and higher education. The Industry experts are providing continuous mentoring in order to appraise the demand of industry relevant skill set. Training in technical domains shall be provided by the core department.

- Organization of special training and awareness for entrepreneurs.
- Placement department provided TASK through technical domain training.
- Organizing in house summer training.
- Providing student internship through Internshala (Online Portal for Internship) and department of placement.

File Description	Document
Upload any additional information	View Document
strategic Plan and deployment documents on the website	View Document
Paste 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:

Board of Management: Board of Management are the pillar of our college. The board of management hold the authority and responsibility to ensure the fulfilment of an institution's mission. They are also ultimately responsible for the fiscal health, policies of the institution.

Governing Council (GC): The Composition of Governing Council includes one nominated member from BOM, Distinguished Academicians, Industry Representatives, Principal of the Institution and Heads of the Department. The Governing council is responsible for framing the policies, rules & regulations to be implemented by the institution. The Governing council is responsible for strategic planning and development of the institution .The GC approves the proposed budget, expenditure for articulating the relationship between the budget and the department's strategic plan. The GC meeting is organised once in a year before the start of the academic session. They ratify the decisions taken by the principal in consultation with the HODs regarding faculty requirements , Staff requirements, Laboratory requirements , Library requirements , Value added Programs, Disciplinary action and other suggestions related to academic activities, co-curricular activities and extra-curricular activities.

Principal: The Principal is responsible for the co-ordination of all the Academic activities, Co-curricular and Extra-curricular activities in accordance with the norms and standards prescribed by AICTE, Anna University and the Government of Tamil Nadu. Organize appointments of Faculty Member according to the norms of the AICTE and affiliating university. Monitors admission, regular class works, placement activities, etc

Head of the Department: Responsible for all the academic activities, co-curricular and extra-curricular activities of the concerned department. The HOD will give a brief introduction of the department and will introduce the new incumbent to all the teaching and non-teaching members of his team. o He will also take him/her on a tour of the campus, explaining the various codes of conduct observed in availing the facilities in the college. o The HOD will also ensure all the registration formalities, including submission of joining report, User Id for secured internet accessing facility, Identity card application etc., by obtaining the assistance of the HR team. The HOD will assign the subject for the new faculty member immediately.

Administrative Officer: Responsible for tuition fees, transport fees and student scholarships The AO is responsible for maintaining the details of faculty members, non-teaching and supporting staff members.

Placement Officer: The placement officer is responsible for all the activities relating to the students placement like training programmes, interacting with various companies, industries and corporate and

organising drives.

Library in charge: The Librarian maintains the documentations of books, journals, newspapers, magazines & library materials. Librarian prepares a periodical requirement of books and journals based on the input from various departments and report to the Principal for any discrepancy.

Exam-Cell In charge: Responsible for all registers and records concerning the examinations. Responsible for the conduct of examinations for theory and practical courses.

Physical Director: In charge of sports and extracurricular activities in the college. Responsible for conduct of sports events in the institution Students Development Cell Coordinator Addresses the needs of the student and staffs community, by continually assessing and improving the programs and services, both inside and outside the college community.

File Description	Document
Upload any additional information	View Document
Link to Organogram of the Institution webpage	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: C. 2 of the above

File Description	Document
Screen shots of user interfaces	View Document
Details of implementation of e-governance in areas of operation, Administration etc	View Document

6.3 Faculty Empowerment Strategies

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

Response:

- The Faculty and the Staff are the most vital components of any organization. Their well-being, satisfaction and motivation propel any organization to its peak. The role of teaching and non-teaching staff plays a significant role in the establishment and development of the Institution. The Institution minds about the welfare of teaching and non-teaching staff as it is important for effective functioning of the Institution. Hence, the college understands their necessities and gives importance

to the fruitfulness of the staff.

- Academic leave (limited) with full pay for pursuing higher studies.
- Registration fee, Dearness allowance, travel grants for teaching and non-teaching staff for attending various conferences, workshops and skill development courses.
- Support is provided for the faculty members to present technical papers in international conferences through international travel grant, and dearness allowances etc.
- Send money grant for pursuing minor research activities and supporting for experimental setup to pursue PhD. This was incorporated in the policy of incentives to the faculty.
- Faculties are provided incentives for publications of textbooks, for publishing professional/academic/technical articles in relevant engineering discipline.
- Financial support is provided to the faculty for obtaining the patents in their relevant fields. Support/ incentive to the faculty on completion of Massive Open Online Courses like NPTEL, etc.
- Faculties are encouraged to take up consultancy activities by providing sharing of revenue in consultancy projects.
- Permission to faculty to deliver guest lectures at other institutes Visits to industry and higher learning institutes for knowledge acquisition / sharing Creating facilities to pursue research activities with modern facilities.
- **Transport Facility:** All teaching and non-teaching staffs are eligible for transport on the college bus. For other official purpose, the staff concerned should inform the Transport coordinator and admin in advance, so that he can retain the driver and ensure that vehicle is kept ready.
- **Canteen Facility:** The Institute offers canteen and cafeteria facility to provide quality foods to all its faculties.
- A separate dining space is arranged for the staff in the canteen.
- **Hostel Facility:** providing hostel facilities for Teaching and Non-Teaching.
- **Empowering teachers with personal computation facility:** The Institute provides Desktops and Wi-Fi facilities to every faculty/staff member and encourages them to use modern teaching aids.
- Orientation programs are conducted for the newly recruited faculty members once in a year to enhance their teaching ability.

The faculty members are eligible for availing Casual Leave, Vacation leave for both teaching and non-teaching every semester. Performance of each member of the faculty as well as the non-teaching staff is evaluated by the institution through performance appraisal system Enabling staff to make use of the latest equipment through awareness programs. All staff rooms are equipped with sufficient number of chairs, tables, electric fans, tube lights and internet accessible computers. Encouragement to acquire computer operating skills Festival advance for both Teaching & non-teaching staff. Training to library staff.

File Description	Document
Upload any additional information	View Document
Paste 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: 5.3**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**

2020-21	2019-20	2018-19	2017-18	2016-17
12	9	10	9	10

File Description	Document
Upload any additional information	View Document
Details of teachers provided with financial support to attend conference, workshops etc during the last five years	View Document

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years**Response: 4.2****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**

2020-21	2019-20	2018-19	2017-18	2016-17
4	3	5	4	5

File Description	Document
Upload any additional information	View Document
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff	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: 8.2****6.3.4.1 Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
16	8	15	23	18

File Description	Document
Upload any additional information	View Document
Details of teachers attending professional development programmes during the last five years	View Document

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

Response:

An appraisal System is an effective way of improving the performance of the individuals and managements helps to achieve their aims and desired targets successfully. Institution provides structural performance appraisal system to evaluate the exact performance for guaranteeing the quality of training from teaching and non-teaching staff. Our college follows Academic Performance Indicators (API) based On Performance Based Appraisal System as Per UGC Regulations, 2010

The institution has the practice of evaluating the performance of the faculty members by Faculty Performance Appraisal System.

The performance appraisal system has the following components

Teaching performance for all subjects

Result percentage produced in the University Examinations

Feedback from students and HoD/Principal

Journal Publications

Conference Presentations / Publications

Workshop/Seminar Participation and organized

Guest Lecture to be delivered

Participation in FDPs /SDP organized in other Institutions

Motivation to be given to Students for paper presentation/Project Proposals to be submitted for grants from funding agencies

Visits to Industries for collaboration Industrial Visit along with students

The faculty will submit the self-appraisal form to the Head of the Department with all the relevant supporting materials/documents Head of the Department will award scores for all the criteria and will submit to the Head of the Institute with all the recommendations. Head of the Institute will assess the scores awarded for the criteria and submit to the management with all the recommendations.

The Strength and Weakness of the faculty member in all the criteria are analyzed by the Head of the Department and the Head of the Institute and the same will be conveyed to the faculty member for further improvements. HoD observes the preparedness and involvement of the faculty in multiple activities throughout the year. A feedback taken from the students gives further inputs regarding the effectiveness of the teaching learning methodologies used. Heads will administer the feedback questionnaire to students for academic programmes and any other training programme of similar type through the learning management system. The self appraisal scores with the recommendations of the Head of the Department and the Head of the Institute will be considered by the management for career advancements

Performance appraisal system for non-teaching staff

Experience and Work Discipline. Feedback from HoD and Principal.

Participation in Community services. Active participation in teamwork, Skill up-gradation through Orientation Programs, Refresher Course, Short Term Courses and Faculty Development Programs

Higher Studies Outstanding Achievements in their studies

File Description	Document
Upload any additional information	View Document
Paste 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:

Internal Audit is performed by officials deputed from Trust office periodically and the reports are obtained before conduct of the external audit which is normally done after the closure of the accounts in all respects.

External Audit is organized twice in a year i.e., half –yearly closing and financial year closing by the Statutory Auditors. During the course of Internal Audit, the objections raised are clarified by the concerned member of the institution by providing the appropriate documents, bills, vouchers etc.

All necessary steps are taken to regularize the accounts and to obtain confirmations for the credit balances, to collect documentary evidences wherever inadequate in respect of payments, compliances of T.D.S. and Statutory Formalities and Reconciliation of Unit wise balances with the Control Accounts and Bank Reconciliations.

The copy of the internal audit report covering all matters related to maintenance of accounts is preserved. Subsequently, External Statutory Audit is conducted by the auditors and the final audit report with audit findings are submitted to the Management. The consolidation of the findings of the Institutions with Trust Central office has been completed and the annual returns have been submitted to Income tax Authorities, Registrar of Societies, and Tamil Nadu and to the other relevant authorities concerned.

Internal Audits

1. Purpose: Internal auditing is a managerial control which functions by measuring and evaluating the effectiveness of other financial and managerial controls.

2. Objective and Scope: The objective of internal auditing is to assist the Board of Management and institutional administrators in the effective discharge of their responsibilities by furnishing them with analyses, appraisals, recommendations and pertinent comments concerning the activities reviewed. The attainment of this objective involves such activities as

- a. Reviewing and appraising the soundness, adequacy and application of accounting, administrative and other operating controls, and promoting effective control at reasonable cost.
- b. Ascertaining the extent of compliance with established policies, plans and procedures.
- c. Ascertaining the extent to which assets are accounted for and safeguarded from losses of all kinds.
- d. Ascertaining the reliability of management data developed within the organization .
- e. Conducting special examinations and reviews at the request of the Audit/Compliance and Investment Committee, the Board of Regents or institutional heads.
- f. Evaluating the economy and efficiency with which resources are employed and recommending improvements in operations, including reviews of administrative and support services with the objective of reducing operating costs.

3. Authority. The internal audit staffs are authorized by the BOM to conduct a comprehensive program of internal auditing. To accomplish their objectives, the internal auditors are authorized to have unrestricted access to college functions, records, properties and personnel.

4. Reporting. The internal audit staffs report to the Board's and where appropriate.

External Audit:

This was conducted by a leading chartered accountants firm on regular basis. External auditors may request to discuss financial and audit related issues with the Audit. The Auditor may request the other external auditors to discuss financial and audit related issues with the Committee.

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

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

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)

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

File Description	Document
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the last five years	View Document

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

Response:

Students are admitted as per the Tami Nadu Government prescribed Higher Education norms by admitting students through Anna University Counseling (TNEA) and through Consortium of Self Financing Professional, Arts and Science Colleges in Tamil Nadu. The latter kind are admitted with the Fees higher than Government Quota students.

Government Grants and Sponsorship

Receipts Institute is getting Grants from various Government Bodies i.e. AICTE, NCW, DST, ICSSR, TNSCST, DST-EDI, etc. and the grants are judiciously utilized to meet the recurring and non recurring cost.

Recurring Expenses

Salary to staff, academic activities and payment of bank interest are done with fees collection

Infrastructural development facilities and Building construction works

Management allocates budget to create and upgrade the infrastructural facilities in tune with the modern trends and for construction works. Bank loans and corpus donations received from well wishers and philanthropist are judiciously utilized for the same. The institute gets grants from AICTE for purchase of modern lab equipment's, purchase of up-to-date version software and others. College purchases new vehicles as per student strength, through hire purchase loans from banks and loans are repaid with reduced rates of interest from the reasonable transport charges.

Research and project activities:

In order to inspire the faculty and students, the management sponsors funds for development of research projects with real time application and social relevance. During every year nearly 10% of the income is earmarked for such sponsorships.

Seminars, Conferences and Faculty Development Programme and other co-curricular:

Every department of the institution organizes the seminars, workshops and conferences by way of collecting registration fees from the participants. The excess of income over expenditure is utilized effectively for the development of the department. In case of deficit the management supports by releasing funds.

File Description	Document
Upload any additional information	View Document
Paste 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

Response:

To enhance the quality improvements in the academic process and also as a pre-accreditation exercise Internal Quality Assurance Cell (IQAC) was formed in our institution on 12.06.2017. The IQAC cell is coordinated by a team of faculty members from all the departments. The objective of the cell is to develop a system for conscious, consistent and catalytic improvement in the overall performance of the institution at all levels with the involvement of all stakeholders towards quality enhancement through internalization of quality culture and institutionalization of best practices.

Following are the major contributions of IQAC:

Development of ICT Enabled smart Classrooms for each department

LAN connectivity encompassing the entire college with higher bandwidth of 100 Mbps.

Sensitizing quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders by teaching and non-teaching members, general meetings, notices, college Website and through Alumni meet, parent-teacher meeting.

Enriching the Library through the establishment of tie-ups and subscription.

Evaluation of proposed research projects by Industry Experts:

IQAC has emphasized on the importance of conducting industry-relevant research at our Institutional programme. IQAC Committee advised the faculty members to strengthen the research activities and execute industry projects to bridge the gap between industry- academics. In accordance with the same, experts from various industries were invited to evaluate the proposed research projects at the inception stage so as to provide valuable guidance and make the research projects more beneficial from the industrial perspective.

External Collaborations:

Faculty members were motivated by the IQAC committee to collaborate with various organizations for mutual benefit. This has resulted in an increase in the number of Memorandum of Understanding (MoU) signed between various organizations. These measures have helped students gain hands-on experience about the functioning of the industry and further prepared them for industrial jobs.

Introduction of additional assessments:

Reformation in the internal assessment tests are based on unit wise. The preparation for unit test–III with questions from all five units enables the students to comprehend the complete course and perform better in the university examinations. To ensure uniform paper correction among different batches for the same course, the practice of submitting the question paper along with answer key was also initiated

Significant Activities: IQAC has initiated the steps to Self Analyze the status of MoU, Campus Placement, Teaching Pedagogy, Skill Sets of the students by the way of exercising the following activities among the students and the faculty members

Innovative Teaching Learning Methodology Objectives:

Platform to express the ideas

Improving communication skill working in a group

Team spirit enhancing the higher order thinking skills thereby igniting their minds.

Outcome:

Individual participation of students

Faculty members to find out a new technique

Young teachers come to know about various new models

Online hunt, quiz, group discussion and etc.

File Description	Document
Upload any additional information	View Document
Paste 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:

The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through the following mechanism governed by IQAC.

- 1.Students Feedback through “Student Feedback Questionnaire
- 2.Co-coordinator’s observation
- 3.Principal’s interaction with staff and students on monthly basis

The College communicates its quality assurance policies, mechanisms and outcomes to the internal stakeholder. The IQAC in the planning process considers feedbacks collected from all the stakeholders to prepare perspectives on development. These developmental perspectives are discussed in the respective meetings of Advisory Board and alumni. The reflections of the meetings are incorporated in the plan. The management has developed evaluation tools for stakeholders to record their opinions, suggestions and objections for constructive developments for future.

Reforms in Course planning, execution and delivery every semester

Individual faculty members maintain a Log Book that includes overall planning of lectures, lab experiments, result analysis and all other activities related to teaching and learning. Apart from this, the faculties also have to maintain records of attendance, their performance in internal and end semester exams. Respective course In-charges have to prepare Course file for internal Evaluation which provides details of CO, its mapping with POs and PSOs, assessment methods along with its weightage for each module.

Every department maintaining the task related to attendance management, result analysis of internal exams. It also facilitated keeping mentor records and their progress. Automation of faculty log book and course file eased the process of course planning, execution and delivery, project planning, monitoring of lectures and experiments, planning of remedial lectures and process of checking of log book itself. Everything related to the course under one faculty is available at one place online and also facilitated automatic calculation of course attainment. Every system has undergone minor changes based on the users’ feedback.

All the systems are built in-house by our faculty members and students. This year, we are in the process of integrating all the individual systems in different departments into one single umbrella and it is in the testing phase.

Planning, execution and evaluation of major project

The well documented and standardized procedure adopted for planning, execution of the final year project in our institute is the result of striving towards perfection resulting in continuous improvement over the years

The students are instructed to form a group and select the area of interest/specilization for the final year project. As per the project area, suitable guides are allotted to each group. A seminar is arranged and to facilitate the students to start exploring the literature available in their selected area. Students identify the research gaps and finalize the problem statement in consultation with their guides.

Faculties along with students maintain a project log book for each group throughout the final year till they complete their project. The record book contains the list of objectives to be met for project I and project II, weightage assigned to each of the objectives and their mapping to POs and PSOs. It also contains the weekly attendance report, milestones achieved and planning for the next week. It records all the activities done related to project such as publications, IPR, poster presentation, etc

Project review committees are formed and Periodic reviews are scheduled to assess timely progress of the project work. To standardize the review process, a well-defined rubric is designed.

File Description	Document
Paste 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 intitatives with other institution(s)
- 3.Participation in NIRF
- 4.any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

Response: B. 3 of the above

File Description	Document
Upload details of Quality assurance initiatives of the institution	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:

As more girl students pursue higher education, the Jaya Engineering College organize number of gender equity promotion Programs. Sports activities are conducted by physical education department then and there. Institution level sports day is celebrated every year. The institute conduct various activities for girls.

Women empowerment Cell at JEC College is a vibrant and incessantly active collaboration of students, faculty, and staff; endeavoring to create a more inclusive, tolerant and gender sensitized community within campus as well as in society. It believes in strengthening students by creating awareness about socio-political, cultural, and legal perspectives through talks, workshops and symposia.

Our past few program and events primarily aim at creating awareness about issues mentioned above still prevailing in our society.

International Women's Day is a global day celebrating the social, economic, cultural and political achievements of women..

To facilitate more girl students in higher education, Jaya Engineering College offers free transport facility for girl students. From Nemilicheery Railway station to College in morning and from college to Nemilicheery Railway station in evening.

By making the sessions light and interactive, the student counselor creates a conducive environment for the students to facilitate effective communication. Counseling helps the students concentrate better on their studies without getting emotionally drained by other issues.

Gender sensitivity is an inherent value in the cultural ethos of the institute and its neighbouring community, as is evident by the following facilities

(a) Safety and Security

- Well-trained and vigilant women security guards stationed across the campus.
- Security checkpoints at all campus entries and exits.
- Rotational duty by all faculty members for discipline and security.
- The Discipline Committee includes female members at institute as well as faculty level.
- Night Patrols by Security persons..
- Strict implementation of Anti-Ragging..
- Awareness campaigns on women safety and gender sensitivity through various programs by NSS..

- Separate hostels for men and women with dedicated wardens.
- The Institute is the preferred destination of parents for education of their female wards as evidenced by the Stakeholder Feedback.
- Eco-friendly forwards of institute staff with dedicated staff and faculty supervisors.

(b) Counseling

- Formal and informal avenues for counseling male and female students and staff for academic and other issues/problems.
- Class and Discipline Committees are available for counseling of both male and female' students.
- Grievance Redressal Committees for staff and students

(c) Common Rooms

- In our institution, common rooms have been allocated for men and women, which also facilitate discussions among them.

(d) Medical camps

We regularly conduct medical camps for general public in and around Chennai, Our students are encouraged to organize and participate in such camps.

(e) Vishaka committee

We regularly conduct meetings through Vishaka committee. It creates confidence among them.

(f) CCTV cameras

CCTV cameras are installed in the campus it is very easy to trace if anything happens inside the campus. A few sample CCTV photos are shown in supporting documents

File Description	Document
Link for 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
Link for annual gender sensitization action plan	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: B. 3 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:

JAYA ENGINEERING COLLEGE,

Thiruninravur , Chennai

The Efforts for Waste Management in the campus

Waste management is the collection, transport, processing, recycling, and/or disposal of waste materials produced by human activity.

Waste management reduces the effect of waste on the environment, health, and so on. It can also help reuse or recycle resources, such as; paper, cans, glass, and so on. There is various type of waste management that include the disposal of solid, liquid, gaseous, or hazardous substances.

There are many things that need to be taken into consideration when discussing waste management, such as disposal methods, recycling methods, avoidance and reduction methods, and transportation of waste.

- Solid waste management
- Liquid waste management

- E-waste management

SOLID WASTE MANAGEMENT

Jaya Engineering College has taken many initiatives towards waste management.

The vegetable waste from the hostel mess are arranged to be disposed regularly to keep the campus clean.

The food waste from the mess is being taken to pig farm . The person from the farm regularly visits the campus to collect the food wastages.

Being an educational institution, the college does not generate any hazardous waste. The institution's key operations has very less impact on the environment as the college is very conscious of generating less waste. However, waste is generated by all sorts of routine activities carried out in the College that includes paper, plastics, foods, etc. The college believes its utmost responsibility to remove all waste not only for the safety of the students but also for the harm it causes to the environment.

Adequate number of dust bins are placed all over the campus. The collected waste is disposed with the help of Thiruninravur Town Panchayat on a daily basis.

Our college promotes minimal plastic usage.

Various awareness campaigns are organized on waste management .To sustain eco-friendly and green enabled campus, various NSS programs like Swachh Bharat, Clean and Green activities and plantation in campus are regularly conducted.

LIQUID WASTE MANAGEMENT

In our Institution all the buildings are designed taking into account for maximum utilization of natural resources. Liquid waste(The sludge from sewage waste generated by the Institution is utilized for the production of biogas. Waste Water from the RO plant is used for gardening purpose.

E-WASTE MANAGEMENT

The e-waste includes a wide range of electronic and electrical items such as computers, printers, keyboards etc. Electronic equipments and goods are put to optimum use. The institute takes efforts to minimize e-waste by repairing the computer peripheral and electronic components.

E-waste generated from various departments which cannot be reused or recycled is being disposed off centrally through certified eco-friendly vendors. Any damages or reductions in capacity are set right by repairs. In addition, the college has emphasis on minimum paper usage to save carbon emission in printers.

The non-working computer spare parts and other non-working equipment are safely disposed

outside.

The cartridge of laser/ Inkjet printers is refilled outside the college campus for our regular use.

UPS Batteries are recharged / repaired / exchanged by the suppliers.

File Description	Document
Any other relevant information	View Document
Link for Geotagged photographs of the facilities	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
Link for any other relevant 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: C. 2 of the above

File Description	Document
Various policy documents / decisions circulated for implementation	View Document
Geotagged photos / videos of the facilities	View Document
Link for any other relevant information	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: C. 2 of the above

File Description	Document
Certificates of the awards received	View Document
Link for 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
Geotagged photographs / videos of the facilities	View Document
Link for 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:

Jaya engineering College is always at the forefront of inviting diversity, eradicate stereotypes, enhance self-esteem, encourage students to have a voice and demand educational achievement.

Our College believes in equality of all cultures and traditions as is evident from the fact that students belonging to different caste, religion, regions are studying without any discrimination. Though the institution has diverse socio-cultural background and different linguistic, we do not have any intolerance towards cultural, regional, linguistic, communal socio economic and other diversities.

To achieve these objectives, courses like Constitution of India, Essence of Indian Traditional Knowledge, three weeks Orientation Program are incorporated as a small step to imbibe and inculcate these traits among the students.

Teachers deliver lectures with an acceptance and appreciation for different ideas, opinions, and learning styles of the students and make an earnest effort to understand the racial and cultural characteristics of students.

Along with curriculum, additional communication and soft skills classes are conducted to make the students from different backgrounds communicate effectively.

Women empowerment cell, Anti-ragging and Grievance Re-dressal cell and Vishaka Committee aims at social protection, ensuring tolerance and harmony, reducing vulnerability, building human capital, empowering women and girls, cultural, regional inclusion.

Industrial visits expose students to the practical challenges and also make the students from different backgrounds adapt to one another to create a tolerance and harmony in the organization.

During national festivals and other events of the college, eminent personalities are invited to emphasize the importance of tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities.

NSS and YRC activities of our institution mitigate the socioeconomic diversities and progress them towards leading to a tolerant and harmonious living.

Cultural committee organizes plays, skits, competitions and invited lectures, educates the students and makes them aware of their social responsibilities and understand the implications of their actions. In cultural programs, traditions of various regions are respected.

Students are involved and encouraged to participate in various co-curricular and extracurricular activities to make them mingle with one another and share their opinions and disagreements in a harmonious manner.

With great fervor the national festivals, birth anniversaries and memorials of great Indian personalities like Mahatma Gandhi, Pandit Jawaharlal Nehru, Sarvepalli Radhakrishnan and Dr.A.P.J.Abdul Kalam.

The institute provides poor and merit scholarships as financial support and conducts aptitude and general knowledge classes for the interested students to help them for their competitive exams.

Central Library has a facility to issue books from Book Bank to students belonging to SC/ST communities supplied by the social welfare department for upliftment of the SC/ST students. We have SC/ST cell to take care of the grievance of the students.

Tamilnadu state Government sanctioned scholarships for SC and ST students of Rs.10810000/- in the year 2020-2021 to empower the SC and ST students in education and as well as in society. In 2019-2020 the amount is Rs.10810000/- and it is Rs.14225000/-, Rs.14705000/-, Rs.14680000/- for the years 2018-2019, 2017-2018, 2016-2017 respectively.

There is a separate committee in the name of Students Support & Ethics to look after the availing student scholarships and education loans. The regular class committee were conducted to address the grievance of the students to redress their issues on regular manner.

File Description	Document
Link for supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	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:

India is a vast country with many languages, subcultures, religions and ethnic diversities governed and guided by the Constitution irrespective of caste, religion, race sex. During the first year orientation programme, we conduct awareness program on Indian constitution and Human Values.

Jaya Engineering College sensitizes the students and the employees of the institution to the constitutional obligations about values, rights, duties and responsibilities of citizens which enables them to conduct as a responsible citizen.

Our college intends to develop integrated manpower with right attitude, possessing knowledge and skills, required to make an honourable living and contribute to the socioeconomic development and welfare of the society. These elements are inculcated in the value system of the college community.

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

The students are inspired by conducting various programs on culture, traditions, values, duties and responsibilities by inviting eminent people from various sectors. Competitions are conducted among students for Rangoli, dancing, singing etc.

The personality development of the citizen in the aspects intellectual, mental, physical and spiritual is a rich heritage of our composite culture and is a panacea for all social ills. As an initiative of this, the college conducts yoga practice classes.

The college establishes policies that reflect core values. Code of conduct is prepared for students and staff

and every one should obey the conduct rules. The college encourages participation of students in Sports and Games, YRC and NSS at District level to strengthen district wide bond and relation.

The college curriculum (Anna University) is included with mandatory courses like Professional ethics and human values, Constitution of India, Essence of Indian Traditional Knowledge.

Our College conducts one week Orientation(induction) Program as a small step to inculcate constitutional obligations among the students.

Our College regularly conducts awareness programmes through NSS cell like International Voters Day Awareness, Water Conservation, YOGA Awareness Programme, Polio Immunisation Programme , Fire & Safety Programme, Go Green Awareness Rally Programme, Awareness Programme on AIDS and Awareness Programme on Eco Systems to sensitize the future leaders to inherit human values coping with the constitutional obligations.

Our college honors Tamilnadu Police Department personalities at various occasions to pay respect to them and they deliver speech on ethics, values, duties and responsibilities and on saving environment.

Our College organized a symposium program on "Traffic rules and regulations" and traffic DSP is invited to give guidelines to students on road safety and to emphasize their responsibility of following traffic rules.

Ethical Values, rights, duties and responsibilities of citizens are some of the topics that are enlisted in Elocution, Debates or in English Communication skills lab activities.

NSS and YRC activities of Our College has the affinity for Philanthropic initiatives which include donation of time or resources to government, charities and organizations at local, national levels to help victims during natural disasters.

Our College conducted awareness programs and rallies on ban on plastics, cleanliness, Swachh Survekshan programme etc. involving students.

File Description	Document
Link for details of activities that inculcate values necessary to render students in to responsible citizens	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:**

Jaya Engineering college aims to inculcate values and nationalism in the students by celebrating the national festivals and birth anniversaries of great Indian personalities in the college campus every year. The celebrations include flag-hoisting, Project Exhibitions, Poster Presentations, Walks, Essay Writing, and Elocution. Eminent personalities are invited to motivate staff and students by their inspirational speeches on those days.

Youth Day:

National Youth Day is celebrated on 12th January on the college campus with the aim of motivating the youth through the way of life and ideas of Swami Vivekananda to generate a positive attitude towards the people to provide them with every knowledge about how to behave in a proper way in the society.

National Voters Day:

National Voters Day is celebrated every year on 25th January to spread awareness about the necessity of voting and to encourage young generation towards the voting rights.

Republic Day and Independence Day:

Republic Day and Independence Day are celebrated on January 26 and August 15 respectively to celebrate the Inception of the Constitution of India and freedom of our nation. Indian national flag was hoisted on college campus by our principal at 9.30 A.M. Students and staff salutes the flag and then sang the National Anthem.

Martyrs Day :

Mahatma Gandhi Death Day is commemorated as a Martyrs day on 30th January. On this day all Students and Staff pay homage to the victims who fought for the freedom, welfare and progress of the India and sacrificed their lives.

Women's Day:

Women Empowerment cell and Vishaka Committee organizes Women's Day on 8th March for the girl students and lady staff members in the college and conducts various events and competitions.

International Yoga Day:

International Yoga day is celebrated on 21st June every year in the campus. The sessions include orientation on Yoga, its mental and physical benefits and actual performance of some yoga asanas.

Teachers Day :

On September 5, 2020 Our college celebrates Teacher's Day commemorating the birthday of Dr. Sarvepalli RadhaKrishnan, a great teacher. On that day the Institution felicitates eminent personalities from the educational field.

Gandhi Jayanthi :

On October 2, Gandhi Jayanthi is celebrated in memory of the Father of the Nation, who devoted his whole life preaching Truth and following Ahimsa. The NSS unit organized mass pledge in accordance with the Prime Ministers' urge for 'Swachh Bharat Programme'. Gandhiji moral values explained to students how silence has so much power. Because of non violence moment we got freedom. Aim of Mahatma Gandhi is to develop the villages. By following him, students went to villages, and they provided some essential facilities needed for the village.

Dr. A.P.J.Abdul Kalam's Birth Day:

October 15 of every year is celebrated as World Students' Day in honour of former Indian president APJ Abdul Kalam, who was born on the same day in 1931. The day aims to acknowledge the efforts of Kalam towards education and students.

Children's Day :

Children's Day is celebrated in our college to increase awareness about the rights, education, and welfare of children. It is celebrated on 14 November every year on the birthday of the First Prime Minister of India Jawaharlal Nehru,

File Description	Document
Link for Geotagged photographs of some of the events	View Document
Link for 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:

1. Title of Best Practice - TEACHING – LEARNING PROCESS AND MENTOR SYSTEM

1. Objectives

- To ensure the completion of syllabus according to the academic calendar of College
- To encourage teachers to adapt to advance pedagogical methods including mind mapping and diagrammatic way of expressions of the concepts.
- To improve pass percentage, average marks in each semester and enhance the number of ranks bagged by the college at the university level examinations
- To increase the placement of college as quality of students would be improved
- To minimize dropouts, improve performance and reduce stress of the students through personal counseling and club activities.
- To participate more in co-curricular and extracurricular activities.

1. The context

Teachers may use different methods to teach in class room. They teach at different paces. It was observed that syllabus coverage remains a challenge when there is need of uniformity. The teachers find it difficult to keep pace with the student learners having a good knowledge and understanding of modern technology. There was a need of uniformity and standard setting so that everyone is able to meet the objective of best teaching practices. It has become essential for teachers to adopt to the latest pedagogic styles in class room teaching. The mismatch between the student learner and the teacher in the use and comfort of handling varieties of techniques like mind mapping and other diagrammatic way of teaching learning is used. Mentors are allotted with minimum set of students to help students in all avenues other than regular academics. Counseling is done for needy students to improve their performance. If there is any serious issue, the student is asked to seek assistance from professional councilor.

1. The practice

- Academic calendar is prepared under the supervision of academic coordinator based on the academic calendar of Anna University for affiliated institutions.
- Academic calendar is uploaded on the website for information to students, teachers and others.
- On the basis of that, every faculty prepares the academic planner in the form of course file which is audited by the department head.
- The heads of different departments monitor the pace of coverage of the syllabus and it is reported to the Academic coordinator periodically.

The class attendance of the students is also monitored and if there is any long absence more than 2 days, it is informed to parents to find the reason and proper advice is provided by class councilors and Head of the Department.

- Timely Feedback is obtained from students regarding the content delivery by different teachers through class committee meeting.
 - Slow learners and advanced learners are identified. For slow learners additional coaching is given to improve their performance and for fast learners additional coaching and training is provided to get placement.
- Assignments, Model examinations are conducted at scheduled dates to improve performance in the University examinations.

Model examination progress is also monitored and the same will be communicated to Parents. The University examination results are also communicated to parents. Parents of Students those who have got arrear in more than two courses will be called and discussed the problems and solutions.

We conduct more model examinations with revision classes to enhance the performance of students in university examination.

- Timeline of Assignments, syllabus coverage is monitored by Academic coordinator.
- College has a separate exam cell to conduct model examinations and University examinations in a centralized manner. Model examination evaluation is also done centrally.
 - All class room has Projectors for effective teaching by the faculty members.
 - Mentors will have a meeting at regular intervals.

Our college has various clubs for students. The clubs will conduct events for all sets of students in all avenues so that they are engaged with some creative activity that will enhance their lifestyle and performance in studies.

Our college has basket ball, volley ball courts and cricket ground inside the campus and we have indoor games like table tennis, snooker etc. Our students will practice and participate in the events at various

levels.

1.Evidence of Success

- All teachers have adopted modern pedagogic styles and ICT in their classes.
- Appropriately paced and timely completion of syllabus
- Increased attendance in the classes
- Improvement in results , pass percentage and average mark.
- Every year we have university rank holders.
 - Placement is also improved with available skill set.

1.Problems encountered and Resources required.

This practice requires a close monitoring system which can show the progress and gaps at each point of time. A dedicated professor is in-charge academic activities in the campus. for Gaps has to be filled up. Teachers need to update their knowledge in resources and latest tools. The expenditure towards the maintenance of ground is more. Faculty members need to spend time for preparation of mind mapping and others diagrammatic models used for teaching. More model examination answer scripts need to be evaluated and analyzed.

1.Title of the Practice: Jaya Knowledge Resource Centre (JKRC)

2.Objectives of the Practice:

- Jaya Engineering college always thinks that lifelong learning should be the ideal way to reach the goal. The main objective of the system is to enable the students to learn from hands on training for the growth and benefit of our students.
- Our college always likes to adapt a proactive approach towards all aspects of the institution and accordingly create a good environment for development of the students through technical learning and understanding.

The aim of the Jaya Knowledge Resource Centre (JKRC) is to

- Support the learning process of the students through provision of knowledge/information.
- Meet knowledge/information needs of the students to support their research activities.
- Respond effectively, wherever possible, to the knowledge/information needs of the students/faculty members.
- Provide services and facilities to meet the knowledge requirements.

3.The Context:

Our college offers nine Under Graduate programmes and seven Post Graduate programmes. We have created Jaya Knowledge Resource Centre (JKRC) to improve the project management ability of the student and also JKRC increases the ability to overcome and to survive in challenging fields of projects. To do some good projects and to do some enhancement in existing project, the financial investment of student is more. By working on the existing project, student batch need not to buy the basic component/equipment. They need to invest only on components/equipments used for enhancement of the same. This will enable them to excel and makes constructive implementation and long lasting impact on the career of the students. Given the complexity of activities and diverse nature and needs of the stakeholders, it is essential to support the students for doing good project work. In addition, the institution likes to involve the students in the process of analysis, decision making and planning and also enable them to understand various concepts and technology and challenges associated with the modernization of the projects.

4. The Practice:

In Jaya Engineering college , Institution's Innovation Council (IIC) is established where there is a storage of more than 50 hardware projects and their reports to inherit the projects by junior batches of students of the college. In this centre, students are allowed to modify the existing projects with the written request from the in-charge of centre. Every year, It is Planned to append centre with the best projects from all departments.

Meetings shall be held in line with the regular schedule and minutes of the meeting held shall be submitted on Saturday to the Principal by the respective committee In-charges.

The activities, achievements, challenges and issues faced by the committees are discussed and appropriate steps are taken from an academic point of view to achieve maximum results in future.

Staff members are advised to update the Jaya Knowledge Resource Centre by advising students with more minor and major projects and to motivate them work on hands on projects. The Head of the Institution, along with the HODs, conducts review of the activities going on in JKRC once in three months. Appropriate decisions are taken to improve the infrastructure and maintenance of the facilities to create a better environment.

5.Evidence of success:

The detailed project information of all projects is maintained by JKRC. The Pre Final years students are visiting the JKRC regularly and clarifying doubts for the future enhancements.

After creation of JKRC, From department of Electronics and communication Engineering, One batch done a project in automatic battery charger with analog meters. The batch was trying to convert the same with digital meters. But the charger has two chargers and uses single transformer. It was not possible to convert both meters into digital, they converted one meter digital and left another meter analog. Mechanical Department students made efficient 3.5HP lightweight power tiller. The main working principle of transmission system is based on chain sprocket mechanism to reduce cost. The developed transmission system is provided with a front or rear mounted powered rotary unit for forward movement as well as for tillage operation. The same machine is equipped with cutting tool which may be used for grass cutting, paddy, wheat .

In Electronics and Instrumentation Engineering ,students made a project, Renewable energy based natural disaster detection system Using LoRaWAN. Forest fires response operations are becoming increasingly important but challenging because they are traditionally based on visual observations and decision-makers estimations that are made under the high responsibility conditions in a lack of time. It has the disadvantages of difficulty in long distance communication and low Efficiency. Along with forest fire detection, cutting of forest trees is also monitored for preventing smuggling activities. All these sensor data will be transmitted by the LoRaWAN protocol which is capable of transmitting data over long distance with low power. The use of LoRaWAN is to transfer data on large distance with low power consumption.

After Creation of Cell about 15 students completed their projects with technical assistance from the JKRC.

? There is a Gradual increase of utilization of the centre.

- Students Innovative Projects have been increased through Jaya Knowledge Resource Centre (JKRC) and participated in some competitions held in various Institutions and Organizations.
- Admissions are far better than the other Colleges in the same town and many other institutions in the state.
- Consistent placements achieved by the students in the last four years.

6.Problems Encountered and Resources Required

We are not able to keep some of the hardware projects because it is connected with computer.

- The mobile number and Email Address of project batches need to be updated periodically.
- Most of the students focus only on academics and seldom come forward to costlier hardware projects.
- Encouraging students is a big task for the mentors as well as other faculty members.

File Description	Document
Link for Best practices in the Institutional web site	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:

Giving Back to society and Environment

Count your chick before it hatches says an old Adage. Our **JAYA ENGINEERING COLLEGE** is gearing-up such skills to the budding Engineers. In this wide arena of competition, we would like to enable Engineering aspirants with more calibers and more innovation. This society should sincerely serve the cause of the education needs of the common man of this metropolitan city. This is the message set by our Chairman **Prof.Dr.A.Kanagaraj** and with this spirit of sincerity, we believe in high standards of academic, professional, and societal performance.

We believe that college life is not all about academics, games, friends, and fun. It is also about learning to interact with other people, being aware of social, environmental and gender issues, and inequities in the society. We provide an opportunity to every student to contribute to make the society in which they live a better place and to grow as better individuals. The Jaya Engineering College has committed itself to the task of inculcating social values and responsibilities in its students.

In line with its vision of working towards the socio-economic development of the country, the Jaya Engineering College has taken utmost care to give back to the community. Several student committees are formed to carry out the duties towards society. The one-week long intense induction program gives the

freshmen an insight into the institute's values and vision.

Along with other sports cultural and technical activities, the NSS unit plans activities like tree plantation and field visits to expose the students to the pressing issues in our society.

They also interact regularly with the students through open discussions on various topics. Several activities are undertaken for the first-year students to expose them to the pressing environmental issues that ail us. Higher semester students are taken on field visits to related industries and encouraged to participate in competitions dealing with environmental issues.

As a special thrust, societal development is also instilled on a large scale into the students through the active NSS unit which undertakes various services to inculcate social values. Throughout the year, the NSS unit undertakes a plethora of events ranging from street plays, cleanliness drives, tree plantation drives, donation drives, waste management drives, gender equity, field visits and many more. The NSS unit has also been was also a part of the plastic usage reduction drive and successfully implemented in the campus. It emphasized the reduction in use of plastic inside the campus.

The college ensures that the social values and feeling of giving back to the society is not limited to the NSS unit. In addition to the activities by NSS, many students too come up with ideas to contribute to society too, and at our college, we encourage them to go forward by supporting them in executing the ideas. The Jaya Engineering college trust have distributed 220 number of 5 Kgs Rice bags (1100 Kgs) to the poor and needy people oliving in Nadukuthagai, Parevakkam and Balaji Nagar and Ragendra nagar, Thirumullaivoyal through President of the village toward COVID-19 during the lockdown. Jaya Educational trust have distributed Groceries and vegetables to the downtrodden people of 50 families.

Major Social Services by our trust:

1. Donated Rs.25,00,000/= to the Railway Dept., Govt.of India, for the New Proposal Railway station at Nemilichery.
2. Actively participated in "NNT/SSS" of Tamilnadu Government for the benefit of the public and contributed Rs.36,50,000/=
3. Donated Rs.5,00,000/= to the Prime Minister's Flood Relief Fund.
4. Donated Rs.1,25,000/= to the Tamilnadu Government for Tsunami Relief.
5. Donated Rs.2,00,000/= for award of "PORKIZHI" in Thiruvallur Dist..
6. Donated Rs.2,00,000/= in Chief Minister, Tamilnadu Government for Corona(CIVID 19) Relief.
7. Donated Rs.41,021/- as examination fees to for prisoners in Central Jail, Puzhal
8. Donated Rs.100,000/- to Jaya TV to conduct the programme "Education for all "
9. Provided free computer training programme for Tamilnadu Police officials for twice.
10. Provided free computer training programme for Judicials in District level
11. Donated computer system to the Government school at Kolappanchery, Poonamalle taluk, Chennai.
12. Actively participated in "ANNADHANAM" scheme of Tamilnadu Government for the benefit of the public.
13. Distributed free food packets to the poor and needy people during Vardha cyclone.
14. Donated Rs.25000/- to Tamil Sangham, Newdelhi.

This list continues in pages but due to restriction of words, we are forced to show only a very few.

We also strictly minimise use of thermocol for any creative activities and most of the creative work are done by recycling of old materials.

Those who have the ability to act, have the responsibility to act. Abiding by this principle, Jaya Engineering college has committed itself and taken on priority the task of an inclusive social upliftment and adopted a village Thirur near Sevvapet road, Nadukuthagai just behind Jaya Engineering as the college's social responsibility. We have done temple cleaning, Pond construction, Pond cleaning and renovation.

This adaptation incorporates a set of training programs for the targeted youth that are recognized by and are relevant to the requirements of industries. To begin with, Mobile repair, Electrical fitting, Electrical maintenance and repair, Toilet construction, Embroidery, Candle making, Incense sticks making, paper bag manufacturing, Speed ball making.

All the student clubs also do their bit by organizing several charity events under their banners like Mini Marathon for a social cause, stage plays, charity concerts and many other events. At our college, every student, as individuals and together with faculty members takes part in this endless experience of giving back to the society, and to transform it to make it a better place.

Without volunteers, many of the services and events we enjoy in our society would not be so readily available. Spending time helping out at local villages provides an important service to less fortunate neighbours. Giving back to the place you call home helps to unite the society and bridge some of the social and economic gaps.

File Description	Document
Link for appropriate web in the Institutional website	View Document
Link for any other relevant information	View Document

5. CONCLUSION

Additional Information :

Jaya Engineering college is very much Focussed on Quality Education System. To Motivate the students to participate in Innovation Exhibition and Develop their skills college established a Knowledge Resource Centre. Students can also be motivated to participate in National level and State level CoCurricular and Extracurricular Activities.

Concluding Remarks :

As the Institution wants to impart Quality Education ,even the student enrolment is less in our college for last 5 years ,we never compromised in Quality. Through the dynamic and Experienced Faculty team imparting quality education to Students. In future Institution wants to go for Autonomous Status. We have produced overall 85% of Academic Results and Around 50% of students got placement in reputed Industries even in Recession period.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																									
1.1.3	<p>Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years</p> <p>1. Academic council/BoS of Affiliating university 2. Setting of question papers for UG/PG programs 3. Design and Development of Curriculum for Add on/ certificate/ Diploma Courses 4. Assessment /evaluation process of the affiliating University</p> <p>Answer before DVV Verification : B. Any 3 of the above Answer After DVV Verification: C. Any 2 of the above Remark : DVV has select C. Any 2 of the above as per supporting letters for SL No. 3 and 4.</p>																									
1.4.1	<p><i>Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders</i></p> <p>1) Students 2)Teachers 3)Employers 4)Alumni</p> <p>Answer before DVV Verification : A. All of the above Answer After DVV Verification: B. Any 3 of the above Remark : DVV has select B. Any 3 of the above s per feedback form of SL No. 1, 2 and 4 by HEI.</p>																									
2.1.1	<p>Average Enrolment percentage (Average of last five years)</p> <p>2.1.1.1. Number of students admitted year-wise during last five years Answer before DVV Verification:</p> <table><tr><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td></tr><tr><td>258</td><td>193</td><td>265</td><td>464</td><td>570</td></tr></table> <p>Answer After DVV Verification :</p> <table><tr><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td></tr><tr><td>255</td><td>190</td><td>262</td><td>460</td><td>563</td></tr></table> <p>2.1.1.2. Number of sanctioned seats year wise during last five years Answer before DVV Verification:</p> <table><tr><td></td><td></td><td></td><td></td><td></td></tr></table>	2020-21	2019-20	2018-19	2017-18	2016-17	258	193	265	464	570	2020-21	2019-20	2018-19	2017-18	2016-17	255	190	262	460	563					
2020-21	2019-20	2018-19	2017-18	2016-17																						
258	193	265	464	570																						
2020-21	2019-20	2018-19	2017-18	2016-17																						
255	190	262	460	563																						

2020-21	2019-20	2018-19	2017-18	2016-17
901	910	910	910	910

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
901	910	910	910	910

Remark : DVV has made the changes as per shared approved students report by HEI.

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)

2.4.3.1. Total experience of full-time teachers

Answer before DVV Verification : 1154

Answer after DVV Verification: 1148

Remark : DVV has made the changes as per experience of all full time teachers shared by HEI.

3.1.3 Percentage of departments having Research projects funded by government and non government agencies during the last five years

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

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
4	4	5	4	2

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
3	3	4	4	2

3.1.3.2. Number of departments offering academic programmes

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
11	11	11	11	11

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
11	11	11	11	11

Remark : DVV has made the changes as per supporting e-copies of departments having Research projects .

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

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

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
3	10	17	19	12

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
3	5	6	8	5

Remark : DVV has considering only the journals having ISSN numbers and which are listed in UGC-CARE, SCOPUS.

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

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

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
10	23	6	6	2

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
5	12	4	4	1

Remark : DVV has only considered books and chapters with ISBN numbers.

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

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

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
2	4	13	8	9

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
2	2	6	3	4

Remark : DVV has not considered Appreciation and Participation Certificate.

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

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

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
19	34	59	75	69

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
11	18	22	37	8

Remark : DVV has not consider days activities shared by HEI. DVV has only considered activities conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc.

3.4.4 Average percentage of students participating in extension activities at 3.4.3. above during last five years

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

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
1654	2868	4315	4311	4207

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
923	1140	1613	2049	800

Remark : As per shared documents, students participated is more than total enrolled students. DVV has given the input as per EP 2.1.

3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year

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

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
52	40	40	37	38

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
23	22	22	21	19

Remark : DVV has made the changes as per pro-rata basis of shared collaboration documents.

3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years

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

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
19	18	19	17	16

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
0	2	4	3	3

Remark : DVV has made the changes as per considering MoUs apart from lifetime.

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

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

Answer before DVV Verification : 312

Answer after DVV Verification: 115

Remark : DVV has made the changes as per log book entries of users using library.

4.4.1

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

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

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
8.82	30.71	31.58	57.94	51.98

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
5.45	22.12	24.54	36.12	34.12

Remark : DVV has made the changes as per expense of repair and Maintenance and other Maintenance duly signed by CA.

5.1.1

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

5.1.1.1. Number of students benefitted 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)

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
529	829	1040	1272	1280

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
106	72	40	114	115

Remark : DVV has made the changes as per shared sanctioned letters for students benefitted by scholarships and free ships provided by the institution, Government.

5.1.2

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

5.1.2.1. Number of students benefitted 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)

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
133	149	161	181	184

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
40	36	31	31	34

Remark : DVV has made the changes as per letters for students benefited by scholarships and free ships .

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

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

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: E. None of the above

Remark : DVV has shared relevant documents for Capacity building and skills enhancement initiatives.

5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years

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

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
776	1094	1521	1915	2235

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

Remark : DVV has not considered Communication Skill - First Year Aptitude Training - Second Year Technical Training - Third year Placement Training Program - Fourth Year. Supporting document for career counselling has not shared by HEI.

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

5.3.3.1. Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
12	36	73	68	60

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
4	5	4	5	5

Remark : DVV has made the changes as per pro-rata basis of report and certificates for sports and cultural events/competitions shared by HEI.

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

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

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
19	15	15	14	14

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
12	9	10	9	10

Remark : DVV has made the changes as per pro-rata basis of relevant finance support letter or receipt shared by HEI.

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

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

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
53	54	54	52	56

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
4	3	5	4	5

Remark : DVV has not considered workshops and programs duration of less than five days. DVV has given the input as per 6.3.4.

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).

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

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
23	12	22	34	22

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
16	8	15	23	18

Remark : DVV has not considered duration of programs of less than 5 days. DVV has excluded duplicate teachers.

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

Answer before DVV Verification : A. 4 or All of the above

Answer After DVV Verification: B. 3 of the above

Remark : DVV has already select B. 3 of the above as per supporting documents of SL No. 1, 4 and 5 shared by HEI.

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

	<p>4. Waste water recycling</p> <p>5. Maintenance of water bodies and distribution system in the campus</p> <p>Answer before DVV Verification : A. Any 4 or all of the above</p> <p>Answer After DVV Verification: B. 3 of the above</p> <p>Remark : DVV has already select B. 3 of the above as per supporting documents of SL No. 1, 2 and 5 shared by HEI.</p>
7.1.5	<p>Green campus initiatives include:</p> <ol style="list-style-type: none"> 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 <p>Answer before DVV Verification : A. Any 4 or All of the above</p> <p>Answer After DVV Verification: C. 2 of the above</p> <p>Remark : DVV has already select C. 2 of the above as per supporting documents of SL No. 1 and 2 shared by HEI.</p>
7.1.7	<p>The Institution has disabled-friendly, barrier free environment</p> <ol style="list-style-type: none"> 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 <p>Answer before DVV Verification : A. Any 4 or all of the above</p> <p>Answer After DVV Verification: C. 2 of the above</p> <p>Remark : DVV has select C. 2 of the above as per shared documents for SI No. 3 and 4.</p>
7.1.10	<p>The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.</p> <ol style="list-style-type: none"> 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 <p>Answer before DVV Verification : A. All of the above</p> <p>Answer After DVV Verification: C. 2 of the above</p> <p>Remark : DVV has considered C. 2 of the above as per shared report by HEI.</p>

2.Extended Profile Deviations

ID	Extended Questions				
1.1	Number of courses offered by the Institution across all programs during the last five years				
	Answer before DVV Verification:				
	2020-21	2019-20	2018-19	2017-18	2016-17
	777	772	788	794	772
	Answer After DVV Verification:				
	2020-21	2019-20	2018-19	2017-18	2016-17
	450	418	370	370	350
2.1	Number of students year-wise during last five years				
	Answer before DVV Verification:				
	2020-21	2019-20	2018-19	2017-18	2016-17
	924	1141	1614	2050	2347
	Answer After DVV Verification:				
	2020-21	2019-20	2018-19	2017-18	2016-17
	923	1140	1613	2049	2346
3.2	Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)				
	Answer before DVV Verification:				
	2020-21	2019-20	2018-19	2017-18	2016-17
	179.448	317.61	469.98	382.94	388.83
	Answer After DVV Verification:				
	2020-21	2019-20	2018-19	2017-18	2016-17
	86.22	216.32	351.12	224.45	213.23
3.3	Number of Computers				
	Answer before DVV Verification : 920				
	Answer after DVV Verification : 450				