



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

JEPPIAAR ENGINEERING COLLEGE

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600119

www.jeppiaarcollege.org

SSR SUBMITTED DATE: 20-03-2020

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

March 2020

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

EXECUTIVE SUMMARY

INTRODUCTORY NOTES

Jeppiaar Engineering College is one of the professional premier institutions founded by the late. Col. Dr. Jeppiaar M.A., B.L., Ph.D., on 15th August 2001, under the aegis of Jeppiaar Educational Trust (JET). It is registered as a Christian minority institution, affiliated to Anna University, Chennai, and approved by AICTE. The campus is beautifully landscaped in a 120-acre land at Semmencherry, Jeppiaar Nagar, Rajiv Gandhi Salai on the Old Mahabalipuram Road (OMR), the IT Corridor of Chennai.

Way back in the eighties, Founder-Chairman Dr. Jeppiaar felt the need for technical institutions that offer engineering programs and set up engineering colleges towards achieving the founder's vision of imparting quality education in the fields of Engineering and Management. The visionary Dr. Jeppiaar strived consistently to uphold his axiom, "Entry is not important but exit is".

The Institution offers nine under-graduate and six post-graduate programmes. The nine under-graduate programmes (B.E. / B.Tech) are Aeronautical Engineering, Biotechnology, Civil Engineering, Computer Science Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering, Electronics and Instrumentation Engineering, Mechanical Engineering and Information Technology. The six post-graduate programmes are M.Tech. Biotechnology, M.E. Computer Science Engineering, M.E Power Electronics, M.E. Mechatronics, M.E. VLSI and Masters in Business Administration (MBA).

Under the able guidance of Dr. Regeena Jeppiaar, Chairman and Managing Director, who has been directly mentored by Dr. Jeppiaar and with the technical coordination of the Principal and all the heads of departments, the Institution strives to generate graduates who would think innovatively, communicate effectively, act ethically and participate meaningfully in a rapidly changing world of Science and Technology and cater to the growing needs of technocratic industries. Towards this, the Institution creates an environment conducive to effective teaching and active learning. The Institution's core philosophy is firmly rooted in the belief, which is "education, beyond imparting knowledge must nurture the holistic development of the entire personality of every student". Today, Jeppiaar Engineering College, with the support of a team of experienced faculty members, serves as an ideal institution for thousands of aspirants, for a world-wide professional career.

Vision

VISION

To build Jeppiaar Engineering College as an institution of academic excellence in science and technology and management education as well, aspiring to become a world class university

Mission

MISSION

- To excel in teaching and learning, research and innovation by promoting the principles of scientific analysis and creative thinking
- To participate in the production, development and dissemination of knowledge and interact with national and international communities
- To equip students with values, ethics and life skills needed to enrich their lives, enabling them to contribute for the progress of science and society
- To prepare students for higher studies and lifelong learning, enrich them with the practical skills necessary to excel as future professionals and entrepreneurs for the benefit of nation's economy

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

Institutional Strength

Jeppiaar Engineering College is managed by highly qualified academicians, who are committed to improve the quality of technical education and imbibe professionalism. In addition, the Institution possesses:-

- ? Excellent Infrastructure
- ? Good Management Support
- ? More than adequate Laboratory facilities
- ? Highly qualified and motivated teachers
- ? Students who bag Anna University Ranks and Medals consistently
- ? Ability to have Student-centric practices
- ? Good Placement record
- ? Capacity to impart holistic education
- ? System motivating students on entrepreneurial skills
- ? Bodies developing leadership skills of the students through annual Youth India' Conference (YI), Rotract Club, Professional Bodies and other regular activities (NCC, NSS, YRC etc)

? Encouraging students to organize and participate in technical events such as symposia, conferences, guest lectures, workshops, etc.

? Mentors counseling students interested in pursuing higher education through Higher Education Cell

? Centre of academic partnership with Bosch in Mechanical engineering, established in 2013.

? WIPRO Certification centre (Talent Next) for conduct of professional coding trainings for students, established in 2010.

? INFOSYS Certification centre (infyTQ) for conduct of professional coding trainings for students, established in 2010.

? Research grants from AICTE / TNSCST / SERB-DST / MSME / NCW /IMPRESS

? Institutional Awards received for Best Innovation In Science Teaching Award (IAA), Innovative Academic Science Research consecutively for five years.

? Faculty award such as Physicist Award (Innovative Scientific Research Professional Malaysia), Dr. Apj Abdul Kalam Award For Teaching Excellence, Interscience Young Investigator Award (IRNET), AICTE-ECI-ISTE Chhatra Vishwakarma Awards (AICTE) consecutively for three years

? Prizes won by the students in technical competitions namely Go-Kart, Smart India Hackathon and in sports/cultural events at the national/international level

Institutional Weakness

Institutional Weakness

- A relatively less number of core companies coming forward to recruit the aspiring and enthusiastic students
- Difficulty in overcoming the inertia of slow learner's and students from rural background
- Low profile in getting research grants from external funding agencies and filing of patents
- Lack of industrial experience for faculty members

Institutional Opportunity

Institutional Opportunity

? Proximity to major IT companies is a great opportunity. The Institution is located on the Old Mahabalipuram Road (OMR) also known as the IT corridor of Chennai. The IT companies that are on the OMR have been facilitating industry-institute interactions and motivating students.

? Scope for Industry Institute Interaction

? Possibility for Autonomy

- ? Increasing the number of PG programmes offered
- ? Opportunity for faculty and students internship
- ? Creating Technology Business Incubators
- ? Establishing more Research Centers
- ? More active Alumni Engagement

Institutional Challenge

Institutional Challenge

- ? Enrolments for engineering programmes have descended because of the huge supply of graduates more than the demand.
- ? Attracting aspiring students to engineering programmes is a big challenge.
- ? Lack of motivation or higher rate of gadget distractions among current generation of students is of great concern; motivating them to achieve success and excel in engineering continues to be a Himalayan challenge.
- ? Being an affiliated Institution, imparting value added courses on niche technologies to bridge the curricular gaps and student exchange programmes with International Universities have always been a challenge.
- ? Meeting the industry demands and expectations in terms of emerging technologies still continues to be a challenge since the pace at which technology advancements takes place in various fields is rapid for a higher education institution to catch up in terms of expert faculty and infrastructural facilities
- ? While there has been a general inflationary trend, the cost of operation is one of the major challenges.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

CURRICULAR ASPECTS

The Institution follows the curriculum and syllabi prescribed by Anna University. It has formulated the following strategies for the effective delivery of the prescribed curriculum.

- The Vision, Mission, PEO, PO, PSO, and CO statements of the Institution are well-defined and OBE (Outcome Based Education) is followed.
- Every department has a Department Advisory Board (DAB) with various stakeholders (Representatives from

Faculty, Alumni, Industries, R&D Organizations, Professional Bodies, and Students). DAB meets every year to review and offer suggestions for improvement. Through the Academic Council of the Institution the suggestions are conveyed to Anna University.

- Department Advisory Board (DAB) comprising of senior faculty members and students monitors the academic activities.
- Academic schedule is planned in compliance with the schedule of the affiliating university.
- All Programmes offered by the Institution follow choice based credit system.
- Time-table is prepared well in advance which includes hours allocated for value-added courses, placement training and library.
- Any gap in the curriculum is addressed through demonstrating experiments that are beyond the syllabus and conducting tutorial classes, value-added courses, seminars, and conferences.
- Class Committee Meetings and the Online Course End Survey are conducted every semester to monitor the students' feedback about the courses.
- Centralized Internal Assessment tests are conducted by setting two sets of question papers and evaluating the answer scripts using an evaluation scheme.
- Remedial Classes are conducted for slow learners and special attention is given to advanced learners
- Students and the faculty members are encouraged to participate in conferences, industrial trainings, undertake internships and publish their research work in reputed conferences and journals. Various Industries and Research Laboratories are involved to nurture and nourish the students with research interest and acumen.
- Importance of maintaining pollution-free environment and holding professional ethics and human values is inculcated by offering courses and seminars in the relevant fields.
- Undergoing Value Added Course (VAC) is made mandatory for all the students on all semesters. All the VAC's are certified either by Industries or Skill Development Organizations.

Teaching-learning and Evaluation

TEACHING-LEARNING AND EVALUATION

- The Institution admits students, who meet the eligibility criteria formulated by the affiliating university and the average enrollment percentage is **85.5%**
- The average percentage of seats filled as against the reservation policy is **90.9%**.
- The Student to Full-time teacher ratio is **12.54 : 1** has been maintained consistently since its inception though there were changes in the stipulation of statutory bodies.
- Each mentor has approximately **16** students under his/her care for academic counseling. A full-time professional student-counselor is also available in the Institution premises.
- Average percentage of full-time teachers against **sanctioned posts is 100%**

- The average percentage of full-time teachers with Ph.D. is 26%
- The average teaching experience of full-time teachers is 8 years
- Teachers and students of all programmes are made well aware of POs, PSOs, and COs. Student-Centric Methods such as experiential learning, participative learning, and various problem-solving methods are adopted for enhancing learning experiences. The assessment system is transparent and robust in terms of periodicity and variety. The mechanism to deal with examination-related grievances is also transparent, time-bound and efficient
- The Institution evaluates the attainment of COs, POs, and PSOs.
- The average pass percentage of students is 82.2%.
- The vision, mission, PEO, PO, PSO, and CO statements are displayed in prominent places and are disseminated among various stakeholders

Research, Innovations and Extension

RESEARCH, INNOVATIONS AND EXTENSION

The Institution encourages both teachers and students to contribute to research. Faculty members are motivated to conduct research and publish their research work, file patents, and guide the aspiring research scholars to carry out innovative as well as socially relevant projects.

The details of research, innovation and extension activities during the last five years are:

- Regular upgradation of faculty skills is done by enabling the faculty members to attend industrial training and FDPs in reputed institutions.
- Received research grants to the extent of Rs.102.04 lakhs from the government and non-government sources to carry out research projects.
- 24 faculty members are recognized research supervisors of various Universities.
- 67 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 is 93.
- The Institution uses Urkund, a software recommended by Anna University to check plagiarism.
- The faculty members are encouraged to carry out research and incentives are awarded to those who receive State, National and International recognition
- 10 scholars have completed Ph.D. degree from the departments of Biotechnology and Computer Science Engineering.
- 1132 research papers have been published in reputed journals.
- 876 books / chapters in edited volumes / books and papers in national / international conference proceedings have been published.
- Extension activities are regularly conducted by NSS / YRC / NCC and professionals to sensitize students to social issues and concerns.

- Received **49** awards from the government / recognized bodies.
- **68** extension and outreach programmes have been conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC and other various Clubs. **72.4%** of students have participated in extension activities;
- **153** linkages for faculty and student development, internship, on-the-job training, and research are available
- **102** functional MoU's for ongoing activities like guest lectures, Internships, training for faculty and students, field trips, on the job training and FDPs are in vogue.

Infrastructure and Learning Resources

INFRASTRUCTURE AND LEARNING RESOURCES

The college has adequate infrastructure and resources catering to the needs of the students growing professionally. The details of the infrastructure and learning resources that are available are:

- 68 classrooms (61 with LCD facilities), 50 classrooms with Wi-Fi/LAN facilities and 11 seminar halls with ICT facilities
- All Laboratories are equipped with state of art facilities housing the latest equipment required to perform experiments covered in the curriculum and also beyond syllabus.
- Dual Core and i3 processor (1120 No.) are provided for computing purposes for students and faculty.
- WiFi connectivity in the administrative and academic areas; leased line internet connectivity with a bandwidth of 100Mbps
- Surplus Ethernet ports throughout the campus for internet connectivity
- Centers for Research (CSE and Biotech) and Advanced Laboratory facilities (Bosch) in specific areas to nurture practical learning habits among the student community.
- Well-equipped gymnasium (In Gents hostel and Ladies Hostel)
- Yoga halls with sufficient amenities are provided for the benefit of students and faculty.
- Adequate facilities for outdoor and indoor games
- Transactions of Library are carried out using Integrated Library Management System (ILMS) named INSPRO PLUS Software, version 6.9. The Library has a total collection of 19585 books, 159366 back volumes, 4500 project reports, 579 on-line journals, 26 magazines, 9 different newspapers and 1152 multimedia packages in CDs and DVDs
- Subscriptions to various e-journals, e-books, and other databases (Delnet, IEEE)
- Established systems and procedures for maintaining and utilizing physical, academic and support facilities (ERP system) are made available.
- The students' orchestra and dance troop carry out their regular practices in the dance halls equipped with musical instruments and sound systems.
- Every year budgets are earmarked for augmentation of physical facilities, infrastructure, library, IT infrastructure and maintenance.

Student Support and Progression

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 45.3%.
- Average percentage of students who receive fee waiver in tuition fee is 3.4%.
- 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 guidance for competitive examinations and career counseling offered by the Institution is 88%.
- Average percentage of students benefited by the value added 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 63.38%.
- Average percentage of passing out students pursuing higher studies is 34.97%.
- Received 228 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 chapters activities.
- Average percentage of students who have participated in sports and cultural activities is 38%.
- 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

GOVERNANCE, LEADERSHIP AND MANAGEMENT

The Institution'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.
- The Dean (Academics) supports the Principal and HoDs 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 address the grievances amicably and professionally.

- Average percentage of teachers provided with financial support to attend conferences/workshops and membership fee of professional bodies is 47.36%.
- Total number of professional development programs organized by the Institution is 38 and Average percentage of teachers attended is 75.57 %.
- 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. The B.Tech programme in Biotechnology is accredited by the National Board of Accreditation (NBA) for a period of three years.
- The Institution has been certified by ISO 9001:2008 standards (DNV) from 2005 till 2017.

Institutional Values and Best Practices

INSTITUTIONAL VALUES AND BEST PRACTICES

The Institution 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 a 50kW Solar Power Plant and practices energy-efficient lighting.
- Percentage of the annual power requirement has been met by renewable energy is 5% and LED bulbs is 8%.
- The Institution has invested in green initiatives such as Rain Water Harvesting, Organic Farming, 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	JEPPIAAR ENGINEERING COLLEGE
Address	Jeppiaar Nagar, Rajiv Gandhi Salai,
City	Chennai
State	Tamil Nadu
Pin	600119
Website	www.jeppiaarcollege.org

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	V. NATRAJAN	044-24502429	9840292031	044-24502820	dean@jeppiaarcollege.org
Professor	SHALEESH A A. STANLEY	044-24502818	9840644740	044-24502819	principal@jeppiaarcollege.org

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	Yes Minority certificate.pdf
If Yes, Specify minority status	
Religious	CHRISTIAN
Linguistic	
Any Other	

Establishment Details				
Date of establishment of the college	15-08-2001			
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	29-04-2019	12	

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

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

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Jeppiaar Nagar, Rajiv Gandhi Salai,	Urban	120	110972

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,Aeronautical Engineering	48	XII	English	60	43
UG	BTech,Biotechnology	48	XII	English	60	52
UG	BE,Civil Engineering	48	XII	English	120	42
UG	BE,Computer Science Engineering	48	XII	English	120	111
UG	BE,Electrical And Electronics Engineering	48	XII	English	120	74
UG	BE,Electrical And Instrumentation Engineering	48	XII	English	60	29

UG	BTech,Information Technology	48	XII	English	120	107
UG	BE,Mechanical Engineering	48	XII	English	180	180
UG	BE,Electronics And Communication Engineering	48	XII	English	120	106
PG	Mtech,Biotechnology	24	UG	English	18	9
PG	ME,Computer Science Engineering	24	UG	English	18	7
PG	ME,Electrical And Electronics Engineering	24	UG	English	18	6
PG	ME,Mechanical Engineering	24	UG	English	18	6
PG	ME,Electronics And Communication Engineering	24	UG	English	18	7
PG	MBA,Masters In Business Administration	24	UG	English	120	96
Doctoral (Ph.D)	PhD or DPhil,Biotechnology	36	PG	English	3	0
Doctoral (Ph.D)	PhD or DPhil,Computer Science Engineering	36	PG	English	3	0

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	27				27				245			
Recruited	14	13	0	27	15	12	0	27	141	104	0	245
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	27				27				245			
Recruited	14	13	0	27	15	12	0	27	141	104	0	245
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				149
Recruited	124	25	0	149
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				149
Recruited	124	25	0	149
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				24
Recruited	14	10	0	24
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				24
Recruited	14	10	0	24
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	12	13	0	10	6	0	36	12	0	89
M.Phil.	1	0	0	0	1	0	8	16	0	26
PG	0	0	0	6	5	0	95	78	0	184

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

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

Details of Visting/Guest Faculties					
Number of Visiting/Guest Faculty engaged with the college?	Male		Female		Total
	0	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
Doctoral (Ph.D)	Male	0	0	0	0	0
	Female	0	0	0	0	0
	Others	0	0	0	0	0
UG	Male	2311	21	0	0	2332
	Female	1171	7	0	0	1178
	Others	0	0	0	0	0
PG	Male	101	3	0	0	104
	Female	132	3	0	0	135
	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	58	70	64	71
	Female	42	59	50	58
	Others	0	0	0	0
ST	Male	1	3	2	1
	Female	0	0	1	0
	Others	0	0	0	0
OBC	Male	476	585	570	546
	Female	274	316	338	410
	Others	0	0	0	0
General	Male	38	44	73	74
	Female	28	33	51	46
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		917	1110	1149	1206

3. Extended Profile

3.1 Program

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

2018-19	2017-18	2016-17	2015-16	2014-15
520	519	515	535	529
File Description			Document	
Institutional data prescribed format			View Document	

Number of programs offered year-wise for last five years?

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

3.2 Students

Number of students year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
3749	4000	4010	4007	3957
File Description			Document	
Institutional data in prescribed format			View Document	

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

2018-19	2017-18	2016-17	2015-16	2014-15
387	429	429	429	429
File Description			Document	
Institutional data in prescribed format			View Document	

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

2018-19	2017-18	2016-17	2015-16	2014-15
1081	1191	1026	1181	1186
File Description		Document		
Institutional data in prescribed format		View Document		

3.3 Teachers

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

2018-19	2017-18	2016-17	2015-16	2014-15
299	303	295	287	279
File Description		Document		
Institutional data in prescribed format		View Document		

Number of sanctioned posts year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
299	303	295	287	279
File Description		Document		
Institutional data in prescribed format		View Document		

3.4 Institution

Total number of classrooms and seminar halls

Response: 73

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

2018-19	2017-18	2016-17	2015-16	2014-15
479.77	530.42	479.93	318.81	362.29

Number of Computers

Response: 1120

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:

Curriculum is delivered to the students using holistic approach through Outcome Based Education.

Program Educational Objectives and Program Specific Outcomes are well prepared towards the Vision and Mission of the Institution. The Institution enlightens the students about the POs and PSOs through Course outcomes and strives to achieve the goals through focus on quality delivery.

Academic Calendar is prepared and working days are planned in accordance with the Academic Schedule provided by the University.

The Department Advisory Board (DAB) comprising Head of the Institute, Head of the department, Senior professors, Parents, Alumni and Employers meets every semester to discuss on the curriculum gaps, introduction of new courses and assessment examinations. The recommendations of the DAB are forwarded to the Academic Council which meets prior to every academic year. Based on the deliberations and decisions of the academic council, elective courses, guest lectures, industrial visits and value added programs are decided and implemented by the department.

Time table is prepared accommodating requisite hours for library, training and placement. Value added courses are offered every year during a specified period decided in accordance with the convenience of the departments.

Courses are allotted to faculty members based on their specialization, interest and also their competency. Also before the start of each course, faculty members are encouraged to attend Faculty Development Programs to enrich their knowledge in planned courses.

Before the commencement of every semester, faculty members prepare / update Course plan, Notes of lessons, Question Bank and Lab manuals. Lab manuals are also appended along with a content that is beyond syllabus to bridge the gap between the syllabus and extant industry requirement. IQAC ensures that these preparations are in unison throughout the Institution.

Curriculum gaps are identified based on the CO-PO mapping prepared in consultation with the internal and external experts in the subjects and are bridged with Guest Lectures and seminars. Industrial visits are appropriately selected based on the courses that are being delivered during the semester and the same are organized for students to get practical exposure about the courses.

Students are provided with text books and relevant learning materials at the start of every semester. Advanced learners are identified and encouraged to participate in paper presentations and take add-on courses such as NPTEL.

Meanwhile slow learners are identified and provided with special classes after working hours by faculty on turn basis to mentor and encourage them. Irrespective of their capabilities, students are encouraged to participate in professional society chapters such as IEEE, CSI, ISTE, AeSI and SAE.

After the completion of semester examinations, students are facilitated to attend internships during their vacation. Final year students are encouraged to take on company projects that give them an exposure about corporate and industry.

Course End Survey is taken from students to assess the attainment of COs, POs and PSOs.

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:

As the Institution is affiliated to Anna University Chennai, the academic calendar prescribed by the university is followed with respect of theory and practical classes and the schedule for continuous evaluation. Additionally days are year marked for organising co-curricular activities such as seminar, guest lectures, conferences etc over and above the number of working days given by the university.

The academic schedule is provided by the Anna University, Chennai for UG and PG programmes every semester. It renders information about the date of commencement of classes, last working day, commencement of practical examinations and end semester examinations. In case, there is lack in the number of classes due to various curricular / co-curricular activities of the department / college, substantial instructions are given in the schedule to conduct classes on Saturdays if necessary.

There are several Skill Development Courses, Short-Term Value-Added Courses / Diploma Courses / Certificate courses have been designed and introduced by the college in order to fill the gap between the industry and the curriculum. Although, each of these courses is conducted under the purview of the student career. A unique strength of these courses is that, the students can opt for any course and not just the one(s) in their own specialization. Furthermore, the courses meet the goal of instilling entrepreneurial skills in the students. Each of these courses is coordinated by the respective department coordinator who looks into the day-to-day logistics of the course. The In-House faculties, experts in the field, and resource persons from relevant industries are invited to conduct workshops/sessions. Each specialization offers at least one value-added course relevant to the specialization every academic year. The total number of value-added courses implemented differs from year to year.

Additionally, 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. The report period is split into a four week slot meant for attendance and internal marks entry. The entry of the same has to be carried out once in every

four weeks. The assessment test is conducted on the fourth week of the month and immediately the marks are entered at the end of the assessment test in the Anna University portal.

The Centralized Assessment Exams are carried out as planned in the academic calendar. The Question papers are set for Internal Assessment Exams with the mapping of Course Outcomes and Blooms Taxonomy to assess the calibre of students. The question papers are evaluated by the Program Assessment and Evaluation Committee. The Centralized Valuation is carried out and the marks are uploaded in ERP portal, where both the students and the parents can login and check the marks.

The Class Committee Meetings are held twice in a semester regularly before the commencement of Internal Assessment Exam to ensure syllabus completion and effectiveness of course delivery.

File Description	Document
Upload 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

E. None of the above

D. Any 1 of the above

C. Any 2 of the above

B. Any 3 of the above

Response: A. All 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: 15

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

1.2.2 Number of Add on /Certificate programs offered during the last five years**Response:** 15249**1.2.2.1 How many Add on /Certificate programs are added within the last 5 years.**

2018-19	2017-18	2016-17	2015-16	2014-15
2979	3112	3084	3060	3014

File Description	Document
List of Add on /Certificate programs	View Document
Brochure or any other document relating to Add on /Certificate programs	View Document
Any 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:** 77.34**1.2.3.1 Number of students enrolled in value added courses (beyond the curriculum) offered year-wise during last five years.**

2018-19	2017-18	2016-17	2015-16	2014-15
2979	3112	3084	3060	3014

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:

Gender

Being a co-education institution, there is no gender discrimination. Both genders are given equal opportunities in curricular, co-curricular and extracurricular activities.

IEEE Women in Engineering Affinity Group of Jeppiaar Engineering College organized events like Spark, Imprint, Capture-It and W-Meme where Women Empowerment is the main focus.

Rotaract Club of Jeppiaar Engineering College organized Glitzz 2017 in Ethiraj College for Women, Chennai to enhance sanitation.

Every year Women's day is celebrated in the Institution in a grand manner where all students and faculty members participate in the event.

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. The students learn about their responsibilities and rights as engineers. The students of MBA are members of Madras Management Association (MMA) to enhance their standard of management education.

Anti-Ragging is strictly enforced in the campus and a cordial environment is maintained for the students.

The NSS conducts Annual Special Camp at the adopted village (Manamathi) for a period of 7 days organizing awareness programs focusing on sanitation, hygiene, female infanticide, education and empowerment program for women to abolish social evil practices.

The National Cadet Corps (N.C.C) Naval Wing has 50 cadets, including 36 % Girl Cadets. Every year 20 Parades are conducted with each parade going on for 4 hours. Petty officers from Tamil Nadu Naval Tech Unit train and infuse great enthusiasm in our cadets.

The Rotaract Club of the Institution celebrates WORLD SENIOR CITIZEN DAY at various old age homes regularly.

The Institution sponsors Rotaract Club of Chennai for a project titled “Kids Payanam” in Vandaloor Zoo for the benefit of 750 children from orphanage.

The Youth Red Cross (YRC) Unit of the Institution regularly organizes “Blood Donation Camp” twice a year. A minimum of 200 student and staff actively participate and donate blood. The YRC Unit has received “**Dr.Sivaraj Rolling Trophy**”, **8 times** consecutively for maximum blood donated among Tamil Nadu Engineering Colleges.

The activities of the Entrepreneur Development Cell, Google Groups, Student Development Cell, Tamil Club, Jeppiaar Rotaract Club, and events of the Annual Cultural Fest are conducted every year which focus on the current environmental and social issues.

The Workshops on Ethical Hacking and Cyber Security are periodically conducted to cultivate ethical approaches in the work environment.

Environment and Sustainability

A course on Environmental Science and Engineering is offered in the curriculum to educate students to safe guard the ecosystem.

Jeppiaar Rotaract Club & NSS unit conducts events like tree plantations and Go Green Projects to inculcate the idea of environmental preservation and pollution free atmosphere among students. Madras Rotary Club and Jeppiaar Rotaract Club planted around 1500 trees at Gumdipoondi & Thindivanam and similar events are carried out every year.

Most of the communications are done through emails, SMS and posting in web portal to ensure a paper-less environment.

The Institution has a Solar Power Panel with 1.2kW capacity in EEE Block which motivates students in designing projects involving solar power.

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
Any additional information	View Document

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

Response: 30.03

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

2018-19	2017-18	2016-17	2015-16	2014-15
148	161	160	159	158

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
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	View Document

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

Response: 73.7

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

Response: 2763

File Description	Document
List of programmes and number of students undertaking project work/field work/ /internships	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

E. None of the above

D. Any 1 of the above

C. Any 2 of the above

B. Any 3 of the above

Response: A. All 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

E. Feedback not collected

D. Feedback collected

C. Feedback collected and analysed

B. Feedback collected, analysed and action has been taken

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: 85.5

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

2018-19	2017-18	2016-17	2015-16	2014-15
883	911	1104	1137	1178

2.1.1.2 Number of sanctioned seats year wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
1170	1230	1230	1230	1230

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

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

Response: 90.9

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

2018-19	2017-18	2016-17	2015-16	2014-15
330	374	403	405	402

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:

Once the admission process is over, an orientation program is organized for the newly inducted students. During this program the affiliating University regulations are explained to them. The core subjects and the available electives, the credit system, (criteria for internal mark calculation) and the prospects of Choice Based Credit System (CBCS) are explained in detail. An introduction about the department is given and the students are taken around the campus to visit all the laboratories of all the departments. The new students are gradually inducted over a period of one week by conducting games, yoga, dance and other cultural activities, with limited focus on academics.

During this period the students belonging to non-English medium are also identified. To improve their language skills a spoken language course called STEP is arranged in tie up with “The Hindu” (a reputed publishing house). The sessions of this course are handled by trainers from The Hindu. This training will enable the students to confidently speak, write and interact. Basic computer knowledge is given for the biology students. Bridge courses in Mathematics are also organized for the students who have not performed well in their qualifying examinations.

After the completion of 1.5 to 2 units, assessments are conducted internally, based on the schedule circulated by the exam cell. On the day prior to the test, the concerned subject handling faculty will conduct coaching class for all the students. On the same day after college hours, special coaching is given for the hostellers. After the assessments the students who have not performed well in their qualifying examinations are categorized as slow learners. Special time table is framed and coaching classes are conducted for the slow learners and the lateral entry students (diploma students who join in the second year). Study materials and question bank are circulated to all students.

The slow learners are mentored and motivated to do better in the forthcoming exams. Each class is generally allotted two mentors who monitor the attendance and performance of the students on a regular day to day basis.

The advanced learners are encouraged and motivated, not only to excel in their academics but also to do projects, present papers and participate in extracurricular activities. Student chapters like IEEE, GOOGLE club and societies like CSI, SAE etc. enrich students to innovate and participate in various competitive events. Project expos are conducted to bring out the creativity of the students. Workshops, seminars and guest lectures are conducted periodically for the students by prominent experts from the Academia and the Industry to make the students industry ready. The advanced learners are also encouraged to take up competitive examinations like UPSC, GATE, GRE and TOEFL.

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: 12.54

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.

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 IEEE, IEEE-CS, EDC, CSI, Google Club, SAE 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 AICTE Chathra Viswakarma awards.

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 mandatory internship programmes as part of the curriculum. Some of the students also take up NPTEL 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. Students are also given problems as assignments to supplement and enhance the regular teaching learning process. Laboratories are well equipped with internet facility which enables students to self-learn and widen their learning skills.

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 one smart classroom, 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 Edmodo network 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.

Our institution has ERP software for managing the functions of the college in a centralized manner. Each student is provided with a unique ERP login where they can access the study materials, lecture notes, question bank etc.

The placement cell is ICT enabled by means of which students can be given placement training programs by the industrial experts. Online exams such as InfyTq, TCS Commune and CodeChef are conducted which help to equip the students for placements.

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

Response: 15.95

2.3.3.1 Number of mentors

Response: 235

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: 26.01

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

2018-19	2017-18	2016-17	2015-16	2014-15
89	77	77	70	68

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: 8.03

2.4.3.1 Total experience of full-time teachers

Response: 2401

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 Professor (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 ERP portal. The entries made in the portal are cross verified by the year in-charges/counselors while doing their result analysis. The consolidated mark statements pertaining to the class is displayed in the class notice board. The user name and password for the student login of the ERP portal is provided to each student at the time of joining the institution. Both parents and students can view the performance in IAT.

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 internal evaluation of theory courses is planned in the following way:

INTERNAL ASSESSMENT TEST (IAT)	PORTIONS	EVALUATION PROCESS	MAXIMUM MARKS
IAT-1	UNIT I & II	Internal evaluation	60 (Converted to 100)
IAT-2	UNIT III & IV		60 (Converted to 100)
MODEL EXAM	ALL 5 UNITS	Internal evaluation	100

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 ERP portal 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:

Jeppiaar Engineering college offers 9 Under Graduate Programmes and 6 Post Graduate Programmes. The Programmes offered are listed below:

UG PROGRAMMES

Programme Name
Aeronautical Engineering
Bio -Technology
Civil Engineering
Computer Science and Engineering
Electronics and Communication Engineering
Electrical and Electronics Engineering
Electronics and Instrumentation Engineering
Information Technology
Mechanical Engineering

PG PROGRAMMES

Programme Name
M.Tech – Bio Technology
M,E – Computer Science and Engineering
M.E – Mechatronics Engineering
M.E – Power Electronics and Drives
M.E- VLSI Design
MBA - Master of Business Administration

DISSEMINATION:

The programme outcomes (POs), programme specific outcomes (PSOs) and course outcomes (COs) of all the programmes are displayed and disseminated through the following modes

- College website
- Department link of College website
- Library
- HOD room
- Faculty rooms
- Class room notice boards
- Laboratories

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:****Attainment of Course Outcomes (CO)**

- 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:** 82.2**2.6.3.1 Number of final year students who passed the university examination year-wise during the last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
852	990	886	1017	967

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

2018-19	2017-18	2016-17	2015-16	2014-15
1085	1177	1035	1179	1170

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:

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: 102.04

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)

2018-19	2017-18	2016-17	2015-16	2014-15
17.225	10.11	24.29	22.51	27.90

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: 8.03

3.1.2.1 Number of teachers recognized as research guides

Response: 24

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

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

Response: 74

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

2018-19	2017-18	2016-17	2015-16	2014-15
8	9	8	8	4

3.1.3.2 Number of departments offering academic programmes

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

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

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Response:

Jeppiaar Engineering College, in the year 2006, established an innovation cell with an objective to promote technology based activities in the areas of engineering, electronic products, mechanical innovations and eco-friendly techniques in bio-technology, using the core strengths of the students, faculty and Institution.

To accelerate the research few each department, SEED Fund Support for departments was provided by the management. This facilitated the students and faculty to work on In-House projects and publications that lead to several patents filed in the name of the stakeholder and Jeppiaar Engineering College. In addition to this few departments with Centre for Research facility has procured research grants of around 102 Lakhs from various funding agencies to carry out basic and applied Research. The external stakeholders of the start-up ecosystem namely students as Accelerators and Industries and Research Organizations as benefiteres have signed Memorandum of Understanding (MoU) for mentoring the students and training them in the latest technological fields of engineering.

Jeppiaar Engineering College has Bosch Training Academy, Infosys – Campus Connect, Wipro Training Initiatives, MSME Incubation Projects, and Centre for Research-For Incubating ideas towards product development and formation. NSIC, NIWE and MHRD Institution Innovation Council (MHRD

-IIC) were also developed for encouraging the students towards sustainable growth and revolutionizing their focus towards research and development.

With the existing Innovation Ecosystem various research work and project reports were created, which is sent to funding agencies for their approval. The reports of investigative research works were presented in National and International conferences by the faculty and students of our Institution. The best project motivation awards were won by various departments in conferences and the reports are published in National & International Journals. The reports generated were presented in Local Newspapers and in Media for recognition throughout the educational sectors. All the projects reports were collected and stored in the Digital library for further references and continuation of future applied research work. College conducts regular Webinar programs for few departments through CII to promote and bridge the gap for the Industry- Institute interactions. Faculty members regularly interact with the industry to understand functional challenges through applied research or student projects. Project conceived by the students are used as case study in few industry and the same is applied to government organizations like TNSCST for funding. The students choose ideas to take up problems faced by industries by providing solutions to them, for an Environmental and Societal cause. Professional Society chapters by IEEE from the department of EEE, SAE from the department of Mechanical and CSI from the department of Computer Science and Information Technology have created a greater impact for the students to work on leading Innovative Technologies.

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: 93

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

2018-19	2017-18	2016-17	2015-16	2014-15
46	17	12	10	8

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: 2.17

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

Response: 52

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

Response: 24

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

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

Response: 3.87

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

2018-19	2017-18	2016-17	2015-16	2014-15
405	137	234	226	130

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: 2.99

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

2018-19	2017-18	2016-17	2015-16	2014-15
496	278	71	24	7

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 neighbourhood community that create a wide impact on students while sensitizing students on social issues and holistic development are carried out by volunteers of faculty and students. The students represent National Service Scheme (NSS), National cadet corps (N.C.C), Youth Red Cross Unit and Rotaract Club. The Institution has provided the opportunity to individual student to be part of any service according to their choice. Needless to mention, one of the mission statements of the college is to equip students with values, ethics and life skills to enrich their lives and enable them to contribute for the progress of Society.

Some of the noteworthy neighbourhood activities carried out by the students include

- A WALKTHON was carried out by the students, faculty and management of the Institution on the theme, 'SAVE WATER, PROTECT FARMER AND AGRICULTURE'. This walkathon was planned with a plan to sensitize students on agriculture and protection of farmers. This motivated students to prepare hand-outs in native (Tamil) language and distribute them, covering 20 kms from the Institution. The students performed skits and shouted slogans during walkathon and this activity had a good impact on the neighbourhood.
- Cancer Awareness & Mobile Screening Campaign for Women was organized to create health consciousness among the women living in and around the college. A mobile van was arranged in collaboration with Pennalam (NGO) Trust to screen for mammary cancer and uterine cancer. This service was welcomed by neighbourhood women as it had a gynaecologist free consultation.
- Cleanliness and Hygiene were taken as a theme for Swatch Bharat activity to reinforce health and wellness to the neighbourhood. Students from NSS, NCC and Rotaract prepared posters and banners and had demonstration activity in and around the college surroundings.

- Keeping in mind the safety and road ground rules, 'Road Safety Show' was organized by the Institution and the students went on a cycle rally with special posters and demonstrated skits and lectures for small groups. This was well received by the local population as they explained the dangers of violating traffic rules, not wearing safety helmets, rash driving, drunken drive etc.
- Flood relief aids were initiated with the help of Rotaract club and freebies were collected by NSS and NCC volunteers from resources inside the college and from corporate companies as part of Swatch Bharat Activity. This program had a larger impact on students in reaching out to the poor and affected population.

The Institution had also organised various programs such as Tree Plantation, Organ Donation Awareness, Turtle Nest construction, Dengue Fever Awareness Programme, National Voter's Day Awareness Programme, Drugs Awareness Programme, International Day of Yoga, Health and Fitness Awareness Programme to the public at Marina to bridge our institution with community. Through Rotaract Club, the Institution organised several Eye Donation Awareness Campaign, Head Injury Awareness program, free distribution of Spectacles, Tree Plantations in around the vicinity of the Institution.

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: 49

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.

2018-19	2017-18	2016-17	2015-16	2014-15
24	16	5	2	2

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 Programmes conducted by the institution through NSS/

NCC/ Red Cross/ YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc.) and / or those organised in collaboration with industry, community and NGOs during the last five years.

Response: 68

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

2018-19	2017-18	2016-17	2015-16	2014-15
30	14	10	9	5

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: 72.4

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

2018-19	2017-18	2016-17	2015-16	2014-15
3725	3700	2990	2456	1356

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: 152

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

2018-19	2017-18	2016-17	2015-16	2014-15
87	34	13	12	6

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
Any additional information	View Document

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

Response: 102

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

2018-19	2017-18	2016-17	2015-16	2014-15
28	30	25	13	6

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

NAAC

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:

Jeppiaar Engineering College campus is spread across 120 acres of lush green land with total built-up area of 1,10,972m² encompassing state of art infrastructural facilities like adequate classrooms, laboratories, computing equipments, HOD cabins, staff rooms, auditorium, conference halls, seminar halls, reading room, project labs, central library, common rooms, hostels, medical room and ramps for the physically challenged students. The college has excellent classrooms to conduct regular classes in the twelve different building blocks. A separate block is maintained to conduct semester examinations. Placement training programmes are carried out in an exclusive well equipped laboratory. Spacious interview cabins are available for placement activities. Medical facilities are provided by qualified medical professionals. The college premises have an Indian Bank branch which is easily accessible by students and faculty. The college maintains an updated website which provides detailed information about the institution and various events happening in the college. The institution maintains zero percentage deficiency for the last five years as per the standards set by the Anna University for faculty, laboratories and library.

Classrooms:

The college has 68 well-lit and ventilated classrooms with wide corridors. The size of each classroom is as per the norms specified by AICTE. Each department has ICT enabled class rooms with LCD projector and Wi-Fi connectivity for successful incorporation of technology in teaching with regular practices.

Laboratories and computing equipment:

There are 58 fully equipped with advanced equipments laboratories in the college. Each department has its own computing facility with the latest software to meet their own requirements for carrying out academic and research work. In addition to the regular curriculum, students are encouraged to pursue their studies/project work in the emerging areas of research. The college has 1120 computers with latest version such as *core 2 Duo*, *Dual core* and *i3*. Software are updated periodically. Student to computer ratio is maintained as per AICTE norms. Students are provided individual computer in all laboratory sessions and encouraged to work after the working hours. Computers are also provided in staff rooms and library. The central library is equipped with a digital laboratory having a capacity to hold 80 students simultaneously to access the e-resources.

Incubation Centre, Research & Development and Online Course facilities :

The college has well established incubation centre, which provides firsthand experience in entrepreneurship and promotes innovation driven activities. The college has signed Memorandum of Understanding with MSME and encourages students and faculty to apply for proposals. The college has research centers in the departments of bio-technology and computer science engineering, which are recognized by Anna University to enable the faculty and PG scholars to pursue Ph.D. programme. The college provides all possible support to faculty to undertake various research activities and get funding for

projects from various government and non governmental agencies. An ICT enabled hall is made available to facilitate the students and faculty to pursue various online courses provided by SWAYAM NPTEL.

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 etc.

Response:

Sports facilities:

The department of physical education has been equipped with field area of 32,626m², which provides excellent sports facilities for the overall development of students. Talented and deserving sports persons are motivated by providing incentives like 100% tuition fee waiver, free hostel accommodation, sports kit, travelling allowance etc. “Jeppiaar Sports Academy” identifies talented, potential students among the under privileged and grooms them into professional footballers.

Games (indoor, outdoor) Facilities:

There are sufficient numbers of play grounds for organizing indoor and outdoor sports activities with the field area of 1,346m² and 31,280m² respectively. Sports facilities for students such as football ground and courts for volleyball, hand ball, throw ball, basketball, table tennis etc. are available. The sports zone is open to both students and staff after working hours. The students and staff are encouraged and provided with all necessary facilities to participate in inter university, intra university and other sports tournaments.

Gymnasium Facilities:

A fully equipped two gymnasiums with a total area of 330m² separately for boys and girls are available in the campus. It includes cardiac training equipment such as treadmill, elliptical machine, cycling and rowing machine. It also has weight training equipment like cross pulley machine, smith machine, multi chest press, bench press and lat pull down machine. Students are encouraged to use it in the early morning and in the evening after working hours.

Yoga Facilities:

In addition to academics, our college conducts many cultural and physical activities regularly. “Yoga Activities” are conducted for a healthy body, mind and soul. The students are trained in a spacious hall on SKY (Simplified Kundalini Yoga) Systems by a qualified trainer.

Cultural Facilities:

The institute has a spacious auditorium, with excellent acoustics and a massive seating capacity that is available for cultural activities. Practice session of cultural activities such as plays, mimes, folk dance and street plays are performed in the auditorium. Programs are planned to impart professional ethics, societal service, environmental protection and patriotism. The college also conducts intra-college cultural competitions. Cash prizes and merit certificates are distributed to the students on the college day.

Dance Room:

The college has a troupe of professional dancers named “**18 degrees**”, which performs in the college programs and participates in various inter college competitions. The college provides all the needed facilities like a separate room with the mirror and music systems for the troupe to practice for their performance.

Music Room:

Talented students are identified and encouraged to practice regularly. They are made a part of college owned orchestra troupe “**FRETS**”. The college provides an acoustically equipped room with all needed musical instruments for the troupe to practice for their performance.

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: 83.56

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 61

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: 43.2

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

2018-19	2017-18	2016-17	2015-16	2014-15
230.28	212.16	191.97	143.47	155.78

File Description	Document
Upload Details of budget allocation, excluding salary during the last five years (Data Template)	View Document
Upload audited utilization statements	View Document
Upload any additional information	View Document

4.2 Library as a Learning Resource

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

Response:

About ILMS - Library Automation Software

The campus has a spacious central library with an area of 5316m². The central library has various text books, reference books, eBooks, journals, magazines, e-Journals, project reports and NPTEL video related to engineering and allied subjects. It has a total of 19585 titles, 159366 volumes, 579 online journals, 26 magazines, 1152 non book material CDs, 9 different newspapers and more than 4500 project reports. The library is fully automated through Integrated Library Management System (ILMS) named Inspro Plus software, version-6.9 (updated 2019) and the year of automation was 2014. Previous to this Auto Lib software was in vogue. The software is web enabled for intranet and internet environments. The Inspro Plus software is developed by M/s.Palpap Ichinichi Software International Ltd, Chennai. It is developed using DOT NET as front end tool and SQL server as back end databases. The Library Management System consists of modules such as master, operation and report management. The software displays photograph and other details of students and faculty while issuing books. Book reservation facility and the status of a book such as withdrawn / write-off /damaged/lost are easily located. Facilities like database backup restore and book bank are available in the library.

Master Module

The master module consists of rack master creation, periodical master entry, supplier/publisher, member, library card creation, book details, book updation, book bank, and non-book materials details. All the data entered can be edited and updated, which get stored in the corresponding table.

Operation Module

This module is designed to do operations such as user in and out entry. It helps in searching all the databases using simple and advanced query search options.

Report Management Module

This module is designed to generate and print a large number of reports such as utilization report, books issued and return report, bibliography reports, book reports categorized by accession number, author, subject, department, supplier and publisher, title, availability etc. It also generates book unique title report, missing number report and member reports.

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

E. None of the above

D. Any 1 of the above

C. Any 2 of the above

B. Any 3 of the above

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: 31.6

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)

2018-19	2017-18	2016-17	2015-16	2014-15
26.00	30.22	42.23	27.26	32.28

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
Any additional information	View Document

4.2.4 Percentage per day usage of library by teachers and students during the last completed academic year

Response: 19.94

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

Response: 807

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:

Jeppiaar Engineering 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 previously availing internet service from Airtel with 71Mbps band width and currently it is upgraded to 100 Mbps band width leased line provided by M/s.Hathway Telecom Systems Pvt. Ltd. Wi-Fi connectivity of 100 Mbps is maintained annually.

Wi-Fi connectivity of 100 Mbps is provided in the administrative and academic areas through Wi-Fi router from M/s. Telecom Systems Pvt. Ltd. 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 1120 computers available in the college premises. The staff rooms are either provided with LAN or Wi-Fi facility to enhance 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.

Cyberoam 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 well-established Enterprise Resource Planning (ERP) 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. An ERP software, Inspro Plus which has 15 modules facilitate computerized process for student admission, attendance and academics monitoring, exam result analysis report, parent-teacher communication, transfer of educational certificates, financial and administrative operations.

The institution has six 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 such as *core 2 Duo*, *Dual core* and *i3*.

The college has well established language laboratory to enhance communication skills of students. High end IBM Xeon 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.Hathway Telecom Systems Pvt. Ltd, Chennai

Name of the Internet provider : M/s.Hathway Telecom Systems Pvt. Ltd, Chennai

Available Bandwidth : 100 Mbps

Wi-Fi Availability : Available in administrative and academic blocks

Internet access in laboratories,library, classrooms,other administrative blocks : 1120 Nodes

Security arrangements : Firewall enabled network and Kaspersky antivirus

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: 3.35

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

4.3.3 Bandwidth of internet connection in the Institution

E. < 05 MBPS

D. 05 MBPS – 10 MBPS

C. 10 MBPS – 30 MBPS

B. 30 MBPS – 50 MBPS

Response: A. 750 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: 34.93

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)

2018-19	2017-18	2016-17	2015-16	2014-15
146.5	166.04	133.79	114.55	177.58

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:

Utilization and Maintenance of Physical, Sports Complex and Support Facilities

The campus holds well established standard systems and procedures for maintaining the physical, academic and support facilities such as maintenance of buildings, laboratories, classrooms, library, sports complex, computers, etc. The Estate manager is responsible for maintaining facilities such as buildings, transport, electrical, housekeeping, gardening etc. The Estate Manager is ably assisted by civil maintenance officer, electrical maintenance in-charge, A/C mechanic, transport in-charge and housekeeping in-charge.

- Regular cleaning of college floors, classrooms, laboratories, equipment and restrooms are being done by the housekeeping team. Stock verification of all laboratories and other facilities is done at the end of every year by the staff members from other department and the report is submitted to the Principal.
- Separate complaint registers are maintained for various services and are attended to on a daily basis.

Maintenance of laboratory equipment

Periodical check-up of equipment is carried out as per schedule by the laboratory in-charge. The measuring instruments are calibrated regularly. In addition, maintenance is being done weekly, monthly and yearly and the respective registers are maintained in the laboratories. As per the requirement, minor repairs are carried out by the laboratory in-charge or faculty member.

Major repairs for all laboratory equipment are outsourced by following the procedure:

1. The service request is forwarded to the Head of the Department through laboratory in-charge and Head of the Department reports it to the Principal.
2. After approval, Quotation for service is called for and the recommended service provider is identified and forwarded to the Principal.
3. After approval, the service is carried out in the presence of laboratory in-charge.

4. After service, the work completion statement and bills are submitted to the accounts department.

Maintenance of Computer Laboratories

- Maintenance of computers is taken care by an in-house IT admin team. Preventive maintenance and breakdown maintenance procedure are followed. Installation of antivirus and firewall ensures that the software and system are secured. A weekly status check on the hardware and software condition of the machines is undertaken and the same is noted in a maintenance register. Any failure due to SMPS problem or boot loop is recorded in a complaint register. If the problem is minor, the technical support staff of the laboratory will rectify it. For major failures, support from the vendor is taken. Periodic maintenance is done by regular cleaning of the laboratories, software updates, and antivirus updates.

Library maintenance

Library maintenance involves continuous monitoring and verification of the stock, displaying of new material on the display racks and arrangement of the books on the racks. The book materials are cleaned at periodic intervals to reduce the damage caused by dust, insects and pest infestation.

Sports infrastructure maintenance

Indoor and outdoor sports infrastructure facilities are properly maintained by the markers throughout the year. Playfield and gym equipment are also maintained regularly.

Gymnasium and Sports complex maintenance

Separate open ground for badminton, football, volleyball, basketball and cricket are made available for all the students and well equipped gymnasium is maintained for hostel students. The maintenance of sports equipment and playgrounds are maintained by a physical director and his team members.

Air-conditioner maintenance

The regular maintenance of filters and gas filling for air conditioners and water coolers in the campus are serviced periodically or whenever required by the in-house maintenance team.

Housekeeping maintenance

Cleaning and mopping of classrooms, laboratories, library, seminar halls, auditorium, mess halls, hostels, administrative block and placement block are carried out by housekeeping team of the college.

Telecom maintenance

Checking of intercom lines is carried out regularly and upon the complaints and feedback from heads of the departments and is recorded in maintenance register.

CCTV, RO plant and Sewage Treatment Plant maintenance

The optimum working condition of CCTV cameras, Reverse Osmosis plant and Sewage Treatment Plant

are ensured by Skilled workers of our college. RO Plant with capacity of 3000LPH and Sewage Treatment Plant of one lakh liters per day with the capacity of 100 kVA are maintained in-house by the professional team.

Civil Work maintenance

Maintenance department for civil work has qualified and skilled manpower for regular upkeep of the infrastructure such as general repairs of buildings, up keeping of buildings, painting, masonry and plaster work, carpentry and plumbing work periodically and the status is reported to Head of the Institution.

Electrical maintenance

The electrical maintenance team of the college has well trained certified electricians to carry out maintenance of generators, public addressing system. Annual Maintenance Contract (AMC) is entered into for the UPS (5kVA to 25kVA) with M/s.Vareton. Generators, each with capacities of 625 kVA, 500 kVA, 320 kVA and 180 kVA are maintained in-house by the Skilled electricians.

Transport maintenance

The college owns a fleet of buses which is provided to all students and faculty. It connects all the areas in and around Chennai to facilitate the students and faculty for their convenience. Buses are regularly cleaned by the cleaners. Roadside assistance, Vehicle fitting, Vehicle body and paint repairs are carried out by the qualified transport team. **The institution has its own bunk** to meet its fuel requirements.

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: 45.32

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

2018-19	2017-18	2016-17	2015-16	2014-15
1615	1803	1795	1852	1879

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: 3.39

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

2018-19	2017-18	2016-17	2015-16	2014-15
165	169	139	103	91

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

E. None of the above

D. 1 of the above

C. 2 of the above

B. 3 of the above

Response: A. All 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: 88.03

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

2018-19	2017-18	2016-17	2015-16	2014-15
3330	3578	3478	3390	3582

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

E. None of the above

D. 1 of the above

C. 2 of the above

B. 3 of the above

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: 65.58

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

2018-19	2017-18	2016-17	2015-16	2014-15
724	771	697	768	750

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

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

Response: 34.97

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

Response: 378

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

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

Response: 74.25

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

2018-19	2017-18	2016-17	2015-16	2014-15
13	16	20	19	22

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

2018-19	2017-18	2016-17	2015-16	2014-15
21	22	26	22	30

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
Any additional information	View Document

5.3 Student Participation and Activities**5.3.1 Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as one) during the last five years.****Response:** 228**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.**

2018-19	2017-18	2016-17	2015-16	2014-15
29	60	34	46	59

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
Any additional information	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 encourages student participation in many of its administrative activities. The authorities staunchly 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 taking responsibilities for its actions. This develops leadership qualities, team spirit and experiential learning capacity. The students form part of the following committees.

Class Committee

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

Hostel and Mess Committee

This committee comprises of members both from ladies and gents hostel. They act as a bridge between the administration, caterers, hostel authorities and the students. There is a Mess student committee which is responsible for the smooth functioning of the mess facilities.

Transport Committee

There is a student representative who assists faculty in charges of the bus and helps to maintain discipline and avoid any other misconduct which may distract the driver.

Placement Committee

The full-fledged Placement cell of our college continuously monitors the employment opportunities available in various domains and arranges the campus interviews for the eligible students. There is a student placement coordinator who provides students with their contact information for placement, to act as a liaison between the student, college and the facility for placement.

Grievance Redressal, Anti Ragging and Sexual Harassment Cell

A Grievance Redressal Cell has been constituted for the redressal of the problems reported by the Student to the student member of the cell. These cells have been established to prevent all academic related issues, ragging and sexual related issues solved by the committee.

Co-curricular Activities**Student Development Cell**

The main objective of the SDC is to identify the potential of each student and to facilitate them in achieving their academic goals through various clubs. It organizes a variety of events such as Workshops, Skill development courses, Power Lecture Series, Value Added Courses and Seminars. Student coordinator forward activities that are related to academics and career development.

Professional Societies

College has association with Professional Societies of various disciplines and conducts Seminars, Technical Talks, Workshops, etc. The IEEE Student Branch Comprises of The Chairman, The Vice Chairman, The Secretary And The Treasurer. The IEEE Students Organize Events Like Quiz SPARK', Technical Talk, IMPRINT, etc every Year. The CSI Comprises of The President, The Secretary and The Treasurer. Every year students conduct Induction Programs, Workshops, Seminars, Project Expos, etc., SAE hold posts such as The Chairman, The Secretary and The Treasurer. Every year students organize SAE national go-kart championship, trek, workshop etc.

Extracurricular Activities

Sports and Cultural

A student leader takes up the responsibility of obtaining permission to hold sports events for Intra or Inter-college events. A Cultural Secretary, coordinates all the activities through various clubs and he takes up responsibility in conducting inter collegiate events.

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: 37.6

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

2018-19	2017-18	2016-17	2015-16	2014-15
35	49	29	28	47

File Description	Document
Upload any additional information	View Document
Report of the event	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:

The prestige and pride of our college is the great marvelous contribution by our Alumni through the JEC Alumni Association. The JEC Alumni Association was formed in the year 2009 with a wide vision for connecting the fresh emerging engineers with the Alumni's. The Alumni Association of Jeppiaar Engineering College organizes Alumni meet "*MUNNODI KOODAL*" every year during last Saturday of June, a program to facilitate, consolidate and coordinate Alumni Activities at Jeppiaar Engineering College. JEC Alumni Association President is Mrs. Madhurikkha. S, Secretary is Ms. R. Revathi and the Treasurer is Mr. Dilip Singh J

JEC Alumni Association acts as the linking bridge between the past and the present, endeavoring to build a better future. It connects a community of novel, motivated, inquisitive, talented and development-oriented alumni making their mark across different sectors. Alumni Association provides a platform for the alumni to network and interact with the students; faculty members and the management, thereby enhancing the educational experience at the institute and promoting brand Jeppiaarites in the business world environment.

Alumni Association aims at creating and sustaining a mutually beneficial relationship between the institute and its alumni network. The team intends to increase alumni engagement in various academic, placements, cultural and social activities at the institute and beyond to ensure interaction between them and the students. Alumni provide all assistance and cooperation to the institute in its placement initiatives for the growth and development of student career. This would help students to get a first-hand insight into the corporate world and the alumni to network with their batch mates, friends and teachers. The established and esteemed alumni provide placement referrals from time to time. Alumni of the college make the current students up-to-date with various job opportunities and corporate requirements.

Invitations to the alumni as trainers, guest lecturers, project evaluators, speakers at orientation of new batch and other similar activities, which enable to strengthen the bond between the past and present for brighter future. Many alumni also have recommended the Institute to their siblings, friends during admissions. The alumni are also invited to connect to national conference arranged by the institute in the form of Chairs and members of organizing committee to give a platform for networking and knowledge sharing to the Alumni and present students. With the alumni being the part of IQAC, it acts as a facilitator for quality improvement and assurance. Alumni Association calls upon our honored alumni to come forward and connect to their alma mater. The Alumni Association thereby provides a platform not to just merely give back, but get back to their institution. Management tries to maintain a life-long good relation between the institute and its alumni to support the current students for their overall development.

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)**E. <1 Lakhs****D. 1 Lakhs - 3 Lakhs****C. 3 Lakhs - 4 Lakhs****B. 4 Lakhs - 5 Lakhs****Response: E. <1 Lakhs**

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

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

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

Response:

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 comprising of eminent academicians, industrialists and scientists drive the operations of the institution. In tune with the Vision and Mission of the institution, society and stakeholders, initiatives are planned. Every effort with respect to the beginning of new programs, expansion of infrastructure, formulation and promulgating 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 prepared by the Principal in consultation with Department Heads of Core Engineering, Science and Humanities and Functional Heads of Various committees, bodies and cells. The institution ensures quality standards in teaching learning process, evaluation system and other related activities. The Principal assisted by HODs, Administrative head, In-charges and Coordinators of various cells/committees conducts various quality upgradation programmes in the institution.

HOD's set up the operational arrangement for their departments with the concurrence of the Principal. Faculty and staff are assigned with the roles and responsibility to work in a harmonious 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 paving way for good cooperation among the stakeholders.

The Head of the Department in turn distributes duties like Counseling, Year in-charge, 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 , Program Assessment, Placement, Advisory Bureau Higher Studies, 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, IEEE, and Society of Automobile Engineers. The outcome of the discussions in the committee/cell/bodies are noted and forwarded to the Head of the Institution who in turn discusses relevant 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:

The Institution encourages and motivates 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 Purchase committee, Academic Discipline committee, R&D cell, Class Committee, Entrepreneur Development Cell and many more. The faculty members are actively 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 granted 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

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 growth 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.

Enhancement of infrastructure for providing better learning environment for the students The strategic plan with respect to enhancement of infrastructure was to create self sufficient department facilities including classroom, laboratories, seminar halls, green initiatives, etc, though it is not mandatory as per requirement of the statutory bodies like AICTE, Anna University. The college provides advanced teaching facilities and excellent placement. The college infrastructure buildings are represented through a modern architecture by giving a dynamic and vibrant atmosphere. The enhanced and separate facilities like class rooms, laboratories , seminar halls, smart class rooms, common rooms for each department in order to conduct programs simultaneously and without any delay.

The infrastructure also includes a state of art air-conditioned computer laboratory with servers and internet facilities. The Placement block within the campus can accommodate 100 students at a time in its computer laboratory. The block is also equipped with 10 individual interview cabins where eligible students are interviewed by the human resource officers from various companies. Just above the placement floor in the examination cell which connects of internet connected office room and 4 halls with a capacity of 725 seats in these halls, external examinations are conducted. Department of biotechnology and computer science and engineering has been recognized centre for research by Anna University, where research scholars can complete their Ph.D by either fulltime or part time modes. The labs in their departments are well equipped with all facilities for doctoral program

Apart from this, each department has its own thrust areas-based laboratories for study and research.

The other facilities include separate hostels for boys and girls, extensive libraries, Auditorium , common seminar halls, reading halls , outdoor and indoor sports grounds, medical room and dining halls for Staff, Students and visitors. The college offers excellent transport facilities to all the students who commute from different parts of the city. The college mess provides homely, healthy, vegetarian and non-vegetarian food to all.

Enhancing the infrastructure facilities by means of construction of new blocks for each department, classrooms, air-conditioned computer laboratory, extensive libraries, seminar halls and auditorium have been on agenda of the continuous process. Though the needed facilities are in place as per the requirements and the recommendations of the affiliating university, they are enriched with the aim of fulfilling the goals in the strategic plans which go beyond the norms and standards prescribed by the statutory bodies, as well as to make the students fraternity not only thorough professionals, but also responsible citizens who can contribute for the development of the society and the nation.

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 and service rules, procedures, etc.

Response:

Board of management: Board of Management are the backbone 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,

Dean Academics: Develops a vibrant organizational culture by promoting academic excellence, ensuring minimal disparity between the various levels of pedagogy, brought about by establishing purposeful mentor-mentee relationship and encouraging academic activities. Preparation of the academic calendar, monitoring the progress of class work and directing student activity programs.

Head of the Department: Responsible for all the academic activities, co-curricular and extra-curricular activities of the concerned department.

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.

Estate Manager : Responsible for supervising the gardening and domestic team on the estate to obtain maximum productivity and service adhering to budget and required criteria.

File Description	Document
Upload any additional information	View Document
Link to Organogram of the Institution webpage	View Document
Paste link for additional information	View Document

6.2.3 Implementation of e-governance in areas of operation

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

E. None of the above

D. 1 of the above

C. 2 of the above

B. 3 of the above

Response: A. All of the above

File Description	Document
Screen shots of user interfaces	View Document
ERP (Enterprise Resource Planning) Document	View Document
Details of implementation of e-governance in areas of operation, Administration etc	View Document
Any additional information	View Document

6.3 Faculty Empowerment Strategies**6.3.1 The institution has effective welfare measures for teaching and non-teaching staff**

Response:

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. Accordingly, the Institution is executing many effective schemes for the same. A new and innovative initiative has been taken by the Institution by providing a crèche facility for the children of staff. In the view of the future safety of employees, the Institution contributes specific amount towards PF of an employee as per PF rules. Gratuity is applicable to every staff after five year of permanent service. As per Government Rules, the Institution provides 180 days full paid maternity leaves to all female employees. The financial support is provided to staff in the form of fees concession to their wards and to the faculty members for presenting their research papers. The food and transportation for the staff are provided at the subsidized cost. The staff can avail special leaves on religious festivals which enhances the work life

balance of the employee. During the summer and winter season, Vacation has been sanctioned for the teaching as well as non-teaching staff members. In order to appreciate the hard work of the faculty members, cash prize and certificate is awarded to them on the Teacher's Day Celebration. Every year two sets of uniform are provided for the non-teaching staff and free accommodation for the requested staff members are provided in the hostel.

The list given below indicates the effective welfare schemes:

Teaching Staff :

1. Casual Leaves and Medical leaves are given as per government rules
2. Free Transportation and food .
3. Paid Marriage Leave
4. Maternity leave with full salary.
5. On-duty to pursue Ph.D
6. Travelling allowances and registration fees for attending conferences/workshops/FDPs.
7. Providing professional body membership fees
8. Financial support to present research papers in national and international conferences.
9. Employee Provident Fund
10. Restricted Holidays for religious festivals.
11. Vacation holidays during winter and summer season.
12. Medical facilities available for all staff on campus.
13. Appreciation during teacher's day celebration
14. Gratuity scheme implemented
15. Crèche facility is made available for all employees

Non Teaching Staff :

1. Casual Leaves and Medical leaves are given as per government norms
2. Educational support to their wards
3. Vacation Leave
4. Two sets of uniform given every year
5. Marriage gift for staff and their dependents with leave.
6. Maternity leave with full salary.
7. Medical facility available on campus for all staff.
8. Employee Provident Fund
9. Restricted Holidays for religion festivals
10. Vacation holidays during winter and summer seasons.
11. Free accommodation for requested staff
12. Waiver of tuition fees in the Institution to the wards
13. Free transport and mess facilities
14. Gratuity scheme implemented
15. Crèche facility is made available for all employees

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: 47.36

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

2018-19	2017-18	2016-17	2015-16	2014-15
143	144	140	135	131

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: 7.6

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

2018-19	2017-18	2016-17	2015-16	2014-15
6	9	13	5	5

File Description	Document
Upload any additional information	View Document
Reports of Academic Staff College or similar centers	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: 75.57

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

2018-19	2017-18	2016-17	2015-16	2014-15
227	232	224	217	206

File Description	Document
Upload any additional information	View Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View Document
IQAC report summary	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. The teaching staff performance appraisal system consists of three Parts: Principal appraisal, HOD appraisal and self appraisal.

Principal appraisal:

The Head of the Institution is the Administrative and Academic head of the Institution who liaise with the top management, staff and students of the institution. HOI appraises the HOD and faculties with various parameters like

HOD Evaluation

- Department academic & non academic achievements
- Leadership capability
- Coordination ability
- Involvement in college administrative activities.
- Department Research /Publication/Patent achievements
- Staff teaching ability
- Staff support/involvement for college activities
- Work attitude
- Involvement in research & publications activities
- Support in Managerial activities

Teaching

Head of the Department(HOD) appraisal:

HOD provides the details of staff appraisal system by using Google form for evaluating the performance of staff members. It is a value based assessment by collecting the values of each performance and making calculations to publish their results. HOD assesses the performance of the teaching faculty members by,

1. Staff teaching ability
2. Research Practices
3. subject Knowledge
4. Communication Skills Level
5. Work regularity and quality
6. Delivery of content
7. Motivation for weak Students
8. Involvement in College activities

Self Appraisal

It's mandatory for all the faculty members to complete their prescribed format of self appraisal every year by using JEC Self Appraisal Google form. It provides the involvement of faculty members and their effective presence in the department/college level. Self appraisal is prepared on the basis of these facts.

1. Subject Skills
2. Students feedback report from HOD
3. University Examination results
4. Counseling and interacting with the students
5. Participation in FDP / Seminar / workshop
6. Journal publication
7. Fund Received or applied for Research work/ Patents / Workshops
8. Quality of Projects

9. Any Extra-curricular Activities

Non – Teaching Staff

The Support of Non-teaching staffs is the backbone of all the basic activities in training process. The responsibilities of the non teaching staff are also assessed. Non-Technical staff performances are evaluated by filling their JEC Self appraisal form for Non-Teaching staff. It is a value based assessment by collecting the values of each performance. The parameters for assessment are as follow:

1. Training Support
2. Involvement in Higher Studies
3. Skills development
4. Housekeeping and adapting safety practices
5. Dress Code & Neatness
6. Active participation in the team work
7. Counselling Activities

The annual appraisal forms are consolidated and are required to be presented before the committee of experts who will then categorize the performance levels. The Good Performers are rewarded with additional increments. The Moderate Performers are given a feedback to improve in certain areas while the poor performers are counselled by the concerned HOD and Principal and given an opportunity to show an improvement.

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. Internal Audit is conducted once in 3 months. 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:** 3.37

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

2018-19	2017-18	2016-17	2015-16	2014-15
1.1	1.77	0.25	0.25	0

File Description	Document
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the last five years	View Document
Any additional information	View Document
Annual statements of accounts	View Document

6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources**Response:****Fees Collections**

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.

Term Loan and Hire Purchase Loans

Institute is getting above Loans from Banks with reduced rate of interest by maintaining the liquidity, DSCR and Debt Equity Ratios which are sound and the Loans are availed through Jeppiaar Educational Trust.

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.

Non Government Bodies and Sponsorship Receipts

Donations are received from well wishers (alumni and others), industries, individuals and philanthropists for institutional activities.

Corpus Donation of Trust and Trust Contribution

The College is functioning under the Jeppiaar Educational Trust at Chennai

The Trust gets corpus donations from well wishers, corporate and philanthropists.

Optimal Utilization : 1. 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 equipments, purchase of latest 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 motivate 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 ear-marked 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.

Extra-curricular activities:

During every academic year, funds are ear-marked for the conduct of sports and cultural activities to enable overall development of students.

Green Atmosphere : Enough care is taken to maintain cleanliness in the campus which coexists with godliness and fund is judiciously utilized.

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:

The College strives to fulfil the vision and mission objectives through periodic advisory from the management and the Governing Council members of the college. The College invests generously both on infrastructural development and human resources. The quality assurance strategies and processes follow the governing council recommendations and also Quality Management System implemented through ISO. In this regard, IQAC is constituted recently in 2019 for continuing the quality assurance strategies and processes. Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

IQAC has contributed significantly in the following areas:

Response : 1 VALUE ADDED COURSES

To enhance the quality in academic and administrative domains, various IQAC/ISO strategies are institutionalized so as to keep in pace with the expectations of stakeholders like students, industry and society. Skills and knowledge inculcated beyond curriculum education is necessary to succeed in today's world. Our college believes in nurturing the students into a wholesome professional and hence our students are encouraged to undergo.

Value Added Courses and workshops.

These courses develop in them an urge to keep them updated on the latest trends and improve their technical skills further. These courses offer our students an edge over the others and have the following advantages:

To inculcate and to add value in the life of not only the students but also all types of stakeholders like Institutions, industry and society, various IQAC strategies are mandatory. This will also enhance the quality of life of every individual not only in their academic domain but also in their day to day administrative domains.

Today's world is much competitive and to bloom among the competition along with the curriculum of regular studies knowledge and skill are more vital and hence our college with the aim of delivering responsible citizens to our mother nation inculcates Value added courses to the budding students .

We strongly believe that these courses will increase the thirst to acquire knowledge and skill level. They will be kept updated on the emerging trends by attending the workshops arranged by our college.

Value added Programs are now being made part of our academic delivery which have improved the career opportunities of our students

Response : 2 Students Publications in Conference /Seminars /Journals

To inculcate the culture of research, innovation and creativity among students, they are motivated to present and publish papers based on the latest trends in technology and survey based projects. Strategies include:

1. To build self confidence among the students
2. To focus on Technical Know –how
3. To have a Practical Orientation in the learning process
4. To bridge the gap between Academics and Industry
5. To motivate students to bring creativity & innovation while handling the projects

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:

Response 1 :Example 1: Final Year project:

Final year project is a challenging work for every student. In order to work on final year project students need to do lot of research and analysis about their project. So whenever necessary, students get the right kind of assistance from their guides and mentors as they can provide a solution very quickly and guide properly whenever they face a problem. Final year engineering projects help students to explore and strengthen the understanding of fundamentals through the practical application of theoretical concepts. It is a platform where engineers can showcase their talent by doing innovative projects that strengthen their profile and increases the chance of employability in core fields. Hence in order to bring out more innovative, socially responsible, real time projects the evaluation methods have been revised. The project selection and evaluation process is explained below:

Analyse the current trends: Before selecting the final year project topic, as guided by the mentor, students browse online for the latest technological trends.

To focus on any social issue: Students are guided to do their final year projects focusing on any social issue, which leaves a good impression on people who interview them for core jobs or higher studies admissions.

Get expert's assistance whenever possible: Before starting the final year project, various technologies that will be involved in implementing the project will be identified. Since it is not possible for students to learn all the technologies from basics, they need to look out for potential mentors who can help with some of the technologies.

EVALUATION REFORMATION :

As there are no clear cut guidelines given by the affiliating University, Project work of Final Semester Students were being evaluated for the parameters namely, Subject Knowledge, Ability to answer questions, presentation skills, etc., Now after the institutional reviews, senior faculty members have revised the framework of evaluation by taking into consideration aspects such as Innovation, Creativity, Social Relevance and Real time application in addition to the existing parameters. The Rubrics have been reframed accordingly as given in attachment.

RESPONSE 2 : Example 2 : FACULTY INTERNSHIP

Our college strongly believes that our faculty members play vital role in the teaching-learning process. An educator is not only a transmitter of knowledge but also a facilitator of learning. Thus our college has made sure that the faculty members undergo a sound professional training for the qualitative improvement of education. Our Professors look out for ways to stay current and connected with the help of companies, who see the value of offering such programs in the latter's organizations. Thus, similar to students' internship program the faculty members also play the role of interns. The Faculty Internship Program motivates them to learn new skills and supplement knowledge so that it becomes easier to inculcate our students with the strategies of integrating the theoretical aspects into the practical world. This professional experience is shared with our students thus making the placement process much easier.

The Main objectives of faculty internship includes the following

- 1.To assist the student's development of employer-valued skills such as teamwork, communications and attention to detail.
- 2.To expose the student to the environment and expectations of performance on the part of the respective subject in professional way.
- 3.To Enhance and expand the student's knowledge of a particular area(s) of respective subject
- 4.To expose the student to professional role models or mentors who will provide the student with support in the early stages of the internship and provide an example of the behaviours expected in the workplace.

The internship undergone by our faculty focus on the following aspects

- 1.To Provide training and experiential learning opportunities for the development of skills in counselling, assessment, crisis intervention, consultation, outreach, and provision of supervision.

- 2.To Provide an open and supportive environment conducive to the development of multicultural competence and sensitivity to individual differences and to provide experiential learning opportunities to integrate developing knowledge base into work with diverse populations.
- 3.To Provide a professional working environment that encourages and gives space to professional identity development and the development of professional competence. our faculty have undergone internships in Revature, Bosch and Infosys to strengthen their knowledge and application of latest technology to cater the needs of the students and requirements of the university to bridge the gap between industry and institution.

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

E. None of the above

D. 1 of the above

C. 2 of the above

B. 3 of the above

Response: B. 3 of the above

File Description	Document
Upload e-copies of the accreditations and certifications	View Document
Upload details of Quality assurance initiatives of the institution	View Document
Upload any additional information	View Document
Paste web link of Annual reports of 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:

Our college undertake a lot of initiatives for gender equity & sensitization inside our campus for the benefit of students and faculty members.

Safety and Security:

1. CCTV Cameras are fixed for safety in required places. The footage will be monitored and screened for unlawful activities everyday and the report on the same will be given to the Principal.
2. Good lighting and security measures with securities are ensured at every gate.
3. The security guards and attenders will be patrolling the college regularly in order to ensure security for girl students when they stay back for coaching after class hours.

Counseling:

1. Every student will be assigned with a faculty as class counselors. Girls will be assigned with a lady faculty.
2. A team of faculty is available for mentoring students apart from regular academic counseling.
3. A regular professional lady counselor is available for counseling the students inside the campus.
4. Grievances Box and Online Feedback provision is available to share the student's grievances in a privileged way.
5. Special programs related to women's health and building self confidence are being organized.

Common Rooms:

1. Separate Common Rooms with an area of 9.3 Sq.mt. are available for boys and girls in each department.
2. It is provided with good ventilation and beds to take rest.
3. First-Aid boxes are available in the common rooms.

Day Care:

The Institution provides day care facilities for teaching, nonteaching, supporting staff members at free of cost. The Day Care runs as per college timings.

Any other relevant information

1. Transport facilities are available for both boys and girls to their nearest point of bus stops to home.
2. The hostels for Girls and Boys are posted with 24 hours security.
3. Grievance Committee is available to solve any grievances.
4. Medical and Clinic facilities with trained nurses and basic medical amenities with adequate beds

are available.

1. Women Enrolment in NCC, NSS and Rotaract Cells.
2. Many girls participate in cultural program where a dance band “18 degree’s” is formed for girls and they had won many competitions.
3. Graduate of our college, Sub Lieutenant Roopa Alagirisamy inducted to All men branch of Navy among men for the first time in history of India.
4. E-Cell to motivate girls to come out with innovate ideas and begin start-ups.
5. Women Student President for Rotaract club.
6. Separate Self Defence Training for Women.
7. Cancer awareness & mammogram screening for ladies staffs.
8. Guest lectures on secret hidden camera & stress management.
9. Yoga sessions organized in girls and boys hostel
10. Sponsored Seminar like “Role of women in unpaid care work” is organised.
11. Awareness on legal & social aspects of sexual harassment against women
12. International women’s day celebration
13. Awareness session on “Women Health”
14. Cultural & Hostel Day celebration organized every year.
15. Women in Administrative Positions (Leadership):
 - Chairman & Managing Director
 - Dean – Academics
 - HOD –BIO-Tech, EEE, ECE, S&H
 - IQAC – Coordinator

File Description	Document
Link for annual gender sensitization action plan	View 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

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

E. None of the above

D. 1 of the above

C. 2 of the above

B. 3 of the above

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:

Our Management focuses on maintaining an eco-friendly campus, therefore a lot of initiatives had been taken to retain the Green environment and pollution free campus status. The monitoring and assessing of the green environment on the campus are done regularly. All possibilities of enriching environment are constantly explored and implemented in a planned way.

Solid Waste Management:

Jeppiaar Engineering College does solid waste management through vermicomposting plant. In vermicomposting [vermiculture] plant, worms are used to decompose food waste and vegetable wastages to make nutrient-rich “worm manure”. The college has a strong volunteer team to make the campus green and eco-friendly. The coordinators and volunteers of Rotaract Club and NSS team monitors and strive hard to make college and hostel areas completely green and pollution free. Many green environment awareness programs are conducted through student volunteers with the initiatives of the management. Paper wastages are collected frequently and given to the recycling vendors to maintain the campus clean and tidy. Paperless communication [ERP, Whatsapp, and Email] is a regular practice to circulate all academic and non-academic activities. Many branches study a course on Environmental Science & Engineering which helps to keep the environment green and pollution free. All the metal waste, wooden waste and kitchen waste are stored and given to the authorized agents for further processing.

Liquid Waste Management:

Reverse Osmosis (RO) plant is installed in the campus which is used to purify or desalinate

contaminated water. It forces the water through a membrane. The waste water of the plant passes through the underground pipes to the garden. The waste water is utilized to water the plants in the garden and used in wash rooms as well. All the receiving end pipelines are periodically checked for leakages which minimizes the loss of water due to leakage.

E-Waste Management:

All the electronic components like computer peripherals, electronic instruments and batteries are regularly maintained and repaired. The broken materials are being disposed through outside vendors as well.

Waste recycling system

The waste water collected from restrooms is pumped into waste water tank which is recycled again and pumped into garden water tank pipeline. All the pipelines and treatment plant are continuously monitored and maintained regularly.

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**

E. None of the above

D.1 of the above

C. 2 of the above

B. 3 of the above

Response: C. 2 of the above

File Description	Document
Geotagged photographs / videos of the facilities	View Document
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

E. None of the above

D. 1 of the above

C. 2 of the above

B. 3 of the above

Response: Any 4 or All of the above

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

7.1.6 Quality audits on environment and energy regularly undertaken by the Institution

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

E. None of the above

D.1 of the above

C. 2 of the above

B. 3 of the above

Response: C. 2 of the above

File Description	Document
Reports on environment and energy audits submitted by the auditing agency	View Document
Any other relevant information	View Document

7.1.7 The Institution has disabled-friendly, barrier free environment

1. Built environment with ramps/lifts for easy access to classrooms.
2. Disabled-friendly washrooms
3. Signage including tactile path, lights, display boards and signposts
4. Assistive technology and facilities for persons with disabilities (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

E. None of the above

D.1 of the above

C. 2 of the above

B. 3 of the above

Response: A. Any 4 or all of the above

File Description	Document
Geotagged photographs / videos of the facilities	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:

Our college has taken an effort for providing inclusive environment by forming NCC/YRC/NSS/CII-YI/Rotaract wings/clubs inside the campus. The students actively take part in these arms.

Blood Donation Camp

Since the inception of the YRC/NCC they organize blood donation campaigns inside the campus every year. Our students, staff members have participated in these blood donation campaigns. The wings have been awarded as best NCC/YRC wing within districts and the state.

Medical Camp

The Rotaract club has organized number of medical camps for students, faculty and supporting staff regularly. A pair of free spectacles has been distributed based on the medical camp assessment for all the staff members and students.

Eye Donation

Our college has organized the Eye donation camps. These camps emphasized that act of donating the eyes would be the best gift ever for a blind person suffering from corneal blindness.

Mudhiyavargalin Punnagai

Our students organized entertainment activities for old age women by conducting games, events and make the senior citizens happy.

Kalvisindanai

Our Rotaract club students went to various schools for expressing importance of education in life to school students.

Anbudan

This is an event marked for celebrating Christmas with the orphanage children by cutting the cake and makes their day a memorable one.

Flood relief campaign

Our college has organized flood relief programs during flooded seasons for the sufferers with basic amenities like food, rice, cloth, sanitary napkins, candles, medicines, etc.

International Youth Fellowship Meet

The International Youth Fellowship is a pan-global youth organization works towards planting a bright and clean heart in youths, helps students to overcome their limitations, etc.

Tree Plantation

Tree Plantation aids the future generation to inhale pure air. Our NSS volunteers, NCC cadets and Rotaract club students have done a lot of tree saplings plantation inside and outside the campus like in our adopted village Manamathy.

Awareness on Drug among students

Drug awareness program is organized in our college regularly. A Guinness record program was organized on mass awareness session on “Drug Usage” on February 2, 2017. About 2,009 students have gathered for the seminar on drug awareness for 98 minutes and 13 seconds. The **Guinness World Record** has been given for the largest drug awareness session.

Awareness programs on Road Accidents

Our college organizes road accidents awareness sessions explaining the need for wearing helmet, safety rules, driving age, safety precautions.

Cleaning the community

Jeppiaar Engineering College, in association with CII organized Swachh Bharat cleaning activity at nearby beaches. NSS/NCC cleaned the coastal area at Akkarai Beach, Sholinganallur, Chennai.

ICON Awards

Our college organizes Jeppiaar Icon Award every year in recognizing the success and hard work of entrepreneurs from various fronts for the growth and development of our Nation.

Project Masoom

The project creates awareness on child sexual abuse in tie-up with the Child Help Line.

Constructing bridge

As located in low lying area water get stagnant during heavy rain and cyclone period. In order to have unhindered means of commuting a road and a bridge were constructed.

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

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

Response:

The college focuses on overall development of the students by inculcating the sense of patriotism, human values, rights and responsibilities to create responsible citizens. In light of the above, several activities are initiated and implemented as follows.

- **Independence Day Celebrations**

Our college celebrates the auspicious day with great honour and enthusiasm every year. The celebration began with marching by NCC cadets. The chief guest will be invited and the Chairman and Managing director will hoist the flag. NCC cadet will make cultural performances like dance, skit, mime etc and end the program.

- **Republic Day Celebrations**

The republic day is celebrated every year in our campus. Every year, along with Chairman and Managing Director, a chief guest will be invited for the celebration. The republic day will be celebrated with flag hoisting and cake cutting. A bunch of balloons as a symbol of peace will be fled in the sky. This will be followed by the address of the Chairman and Managing Director and the Chief Guest as well. The program will be concluded with National Anthem.

- **Kargil Day Observation**

Kargil Vijay Diwas is observed every year in honour of the Kargil War's Heroes. This day is observed in order to pay homage to the soldiers at Amar Jawan Jyoti.

- **Electoral awareness**

The electoral awareness campaign was organized for the first time voters in our campus by the district election officer. It motivates the students to exercise their right to vote.

- **Legal awareness**

Anti Sexual Harassment cell organizes various program like seminars, guest lectures for the empowerment of girls students and women faculty members and women staff members. A program on “Legal and social aspects of sexual harassment against women” by Mrs. AdiLakshmi Logamoorthy, Advocate-High court, has been organized in order to create awareness on legal provisions related to sexual harassment of the women.

- **Awareness on Child Labour**

Dr Kailash Satyarthi , a Noble Peace Laureate who has been fighting against Child enslavement all over the country through his movement has joined hands with Jeppiaar engineering college, to eradicate Child Slavery and to create awareness about this despicable Act against child labour.

- **Cleaning The Community**

Student members of Rotaract club of our college in association with CII-YI have organized Swachh Bharat Abhiyan, cleaning activity at Pallavakkam beach.

- **Awareness Programs On Road Accidents**

Our college organizes awareness sessions on road accidents explaining the need for wearing helmet, road safety rules, age for driving, safety precautions to all the students.

- **Flood Relief Program**

Our college conducts relief programs for the flood affected regions. People are provided with basic needs like rice, medicine, candle bed sheets, etc.

- **Health awareness**

The Grievance Redressal Cell organized a lecture on “SOUND MIND=SOUND BODY”. This event was organized to wake up and persuade the students to change their habits and attitude towards learning.

- **Tsunami Awareness**

Our students gave awareness session on Tsunami to the local people on “What to do and not to do” during Tsunami.

File Description	Document
Link for details of activities that inculcate values necessary to render students in to responsible citizens	View Document
Link for any other relevant information	View Document

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

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

E. None of the above

D. 1 of the above

C. 2 of the above

B. 3 of the above

Response: A. All 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:

The Institution organizes National festivals and birth anniversaries of great Indian Personalities with ebullience. Our students are on a mission towards better India by breaking the boundaries of religion and caste. Thoughts of great Indian personalities sowed into the young minds through the exhibitions and programs conducted on these days. The Institution practices pluralistic approach towards all religion functions and encourages the students and faculty to showcase the same. The staff and students get to know the importance of national integrity in the country in general and their role in it in particular.

National leaders' Birthday Celebration:

Our college celebrates the following leaders' birthday in the campus.

- **Dr M G Ramachandran**
- **Dr.APJ Abdul Kalam**
- **Dr S. Radhakrishan**

The celebration includes organizing various competitions like speech, drawing, debate, quiz, poem writing, mime etc. The winners will be awarded with prizes.

Festivals

- **Ayudhapooja:** Our College celebrates Ayudha Pooja festival every year. On this occasion, all the laboratories, staff rooms and office were cleaned and redecorated.
- **Deepavali:** Our College celebrates the festival as a significance of triumph of good over evil after Krishna's Victory over Narakasura with full enjoyment by lighting sparklers in the campus.
- **Christmas:** Christmas is celebrated every year as a sacred religious occasion. A special mass for the students and faculty members is arranged.
- **Pongal** It is a multi-day Hindu harvest festival of south India, particularly in the Tamil community. On this occasion, the students and staff cook and celebrate 'Pongal' wearing the traditional dress.

Events

- **New Year Celebration**

Our college celebrates the New Year every year with all staff members of groups of institutions

- **Chennai Day**

Our college celebrates Chennai Day in the month of August every year. It is being the widely agreed memory of the purchase of Madraspatnam village.

- **International Women's Day**

Our college celebrates the International Women's Day every year to honor the women. Women, from various community and business as well as leading educators, inventors, entrepreneurs, and television personalities, are invited to speak at various events on that occasion.

- **Alumni Meet(Munodikoodal)**

Our college organizes the Alumni meet (Munodikoodal) every year which is a gathering of students graduated from the institution and it is a place where the institution feels proud on seeing its successful alumni. During their meet, the alumni community shares their experience in the outside world, which they faced after stepping out of the institution.

- **College cultural and sports day :**

Cultural and Sports are essential for achieving the true education. *Cultural and Sports Day* is celebrated in our college every year. Various competitions will be organized for the students and prizes will be awarded to the winners.

- **Farmers Day :**

Student members of Rotaract club took initiatives to support farmers on the occasion **Farmers Day** and on **Uzhavar Thirunaal** in the month of January.

- **World Senior Citizen Day**

Rotaract Club Jeppiaar Engineering College celebrates **World Senior Citizen Day** “**Mudhiyavargalin Punnagai**” at Vishranti, Palavakkam, Chennai. They entertained old age women by conducting games, events and made the senior citizens happy.

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:

Institutional Best practice: 1

TITLE: Improving academic performance for slow learners

Objective of the Practice:

- To inculcate regular learning practice for slow learners.
- To achieve expected academic performance.
- To enable the slow learners to complete the degree within the stipulated time.
- To enable the slow learners to qualify for placement initiatives

The Context:

In every year around 30% of students were found to be qualified in higher secondary education with below 50% in their aggregate. This affects their academic performance which has an impact on college and individual department academic objectives. Therefore, in every department, the students with below 60% marks in higher secondary education are identified as slow learners. In order to enable the slow learners to cope with the Anna university courses and to perform better, the Institution have initiated special coaching class for slow learners.

The Practice:

- Tutoring and monitoring the slow learners subject wise and understanding of the concepts is discussed in the class.
- Conducting Special Coaching classes for slow learners between 3p.m to 5p.m week days and at 10 a.m to 1.00 pm on Saturdays to improve their performance.
- Conducting periodic tests during 3.00p.m to 5.00p.m on week days
- Assignments are given on topics, which are repeated often in university examination.
- Training on repeated and most expected university questions.
- Informing well in advance the portion for internal assessment test.
- Distributing and discussing answers with slow learners at the end of assessment test.
- Counseling on academic and personal issues

Evidence of Success:

- Our students have showed progress in their academic performance.
- Students have successfully completed their courses in the stipulated time. It can be seen that there is an improvement of 30 % of students have completed their program during the academic year 2018-19.
- The students have learned time management to complete their course.
- The success rate in the final university exam has been improved after the conduct of slow learners' class.

- It is observed that there is considerable improvement in the pass percentage of slow learners from 64% to 68% for the previous five batches.

Problem Encountered and Resources Required:

- The major Challenge is harmonizing their regular academic schedule and slow learners initiatives.
- The other challenges which are met are

1. Parental Expectation.
2. Dealing with stress and anxiety of the slow learners.
3. Motivating and making them to accept and cooperate for initiatives is a challenge.
4. Lack of self confidence among slow learners.

Institutional Best practice 2:

Title of the Practice:

Placement training programs and preparation for competitive examinations

Objectives of the practice:

- To motivate maximum number of students to register in placement cell
- To train the students to get through the placement test and assessment.
- To increase the number of students placed during every academic year.
- To train students to face competitive examinations confidently.

The context:

The expectations set by the employers keep changing day by day. Today's technology world is highly volatile. This is proven in the field of IT where majority of our college placements happen. To address the problem of un-employability, high volatile of technology we need to give more focus on continuous upgradation of skills. The training program that we design and deliver focuses on communication skills, aptitude, soft skills, core competency, programming fundamentals, advanced programming, etc. The effectiveness of the training program measured using various third-party assessments, like AMCAT, CoCubes assessment, etc.,

We have scheduled our placement program as given below, so that all soft & hard skills training are scheduled wisely on all four years of the education.

I yr - British English Council (BEC) courses

II yr - STEP (communication skills)

III yr - Placement training on soft and hard skills

IV yr - Placement

The practice:

The department of training and placement plans and executes training programs, assessments, and other support activities. Here is the list of programs that we deliver to our students.

- Aptitude training program
- Soft-skills training program
- Infosys campus connect program
- Wipro TalentNext J2EE training program(JAVA, DS and Oracle)
- The department-specific technical training program
- Full stack training program(Python, DSA, MongoDB, and Angular)
- InfyTQ certification training program
- AMCAT assessment
- CoCubes assessment
- Gamified Placement Portal

Aptitude training program:

The objective of the training program is to make students competitive in the area of quantitative, logical reasoning and verbal reasoning.

Soft-skills training program:

This program focuses on basic skills like resume building, group discussions and personal interviews.

Infosys Campus Connect:

It is an initiative of Infosys. Through this initiative, we deliver course like Programming Fundamentals, Business English, E-Mail writing, etc.

J2EE Training program:

It is an initiative of Wipro, follows the train-the-trainer model. Our faculty members were trained on J2EE to deliver the same to students. The complete program follows the concept of Project-Based Learning (PBL).

The department-specific technical training program:

It is an intensive program to develop core competency. We are associated with GATE training institutes to deliver this program.

InfyTQ certification training program

It is an Infosys initiative. The courses like programming fundamentals using python, Object-Oriented Programming, Data Structures & Algorithm, and DBMS are available on the InfyTQ platform. Post completion of the course, students can take up an assessment followed by certification. Students who clear the certification will get employment offers from Infosys.

AMCAT assessment

It is one of the leading employability assessments in the job market, which is being used by a lot of companies. Students are assessed on several parameters like aptitude, core competency, English proficiency, etc., It is an adaptive test accepted by leading IT & ITES companies.

CoCubes assessment

It is a linear test. A cocube helps students to understand the potential and help them to get job opportunities.

Gamified Placement Platform

The platform which we use has many features from database maintenance to job posting. It encourages students to take assessments and score marks. It is designed in such a way that students should have taken several assessments and scored nominal to apply for a job.

Evidence of Success

We can witness transformation in the students' skill level post-execution of these practices. We were able to see progress on

- Continuous learning and practice
- Improvement of logical thinking ability
- Quicker problem-solving ability
- Improvement on the confidence level.
- Number of students placed in the reputed organization has shown progress.

Challenges encountered and Resources required:

We have been successful in executing placement support activities but still, we have certain challenges to handle. Finding the right resource persons for the technical training program had always been a challenge. Scheduling programs based on the availability of the right resource persons and scheduling placement training activities with normal academic activities are other big challenges.

File Description	Document
Link for Best practices in the Institutional web site	View Document
Link for any other relevant information	View Document

7.3 Institutional Distinctiveness

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

Response:

In tune with the vision of the institution, Jeppiaar Engineering College strives in achieving academic excellence by developing a culture of curiosity and creativity that will challenge the frontiers of teaching/learning; stimulate research; raise the level of analytical reasoning and inquiry; and enable students to acquire leadership, human relations, communication, and technology skills. This is witnessed by maintaining consistency in achieving more number of university ranks. For the past 5 years, based on the university ranks, our college is within top 2% of Engineering Colleges in TamilNadu. The students face many number of academic challenges in college, including finding time to study, understanding course content and maintaining a high degree of motivation. Along with meeting these challenges, students often struggle to balance academic demands with work, personal responsibilities and social experiences. To combat these issues, our college takes following steps:

- To maintain academic excellence, our college established the objective of achieving 75% result in each department both in internal and university exams.
- To develop a time management system among students, internal assessment exams are conducted periodically where students are trained to manage their time to achieve good scores in university exams. Also, it reduces the burden and tension related to the final examination. In addition to that, it acts as a link which provides data related to student's performance. This gives teachers an opportunity to evaluate the students. Moreover, it helps students in continuous learning.
- Assignment is given to students as it enables the student to research on their own and teach themselves. Periodical assignments are given to enhance the creativity of the students.
- Our college has a plethora of resources to help students achieve success. To motivate toppers in achieving university rank, they will be provided with two extra books per subject in library. Further, to motivate university rank holders, they will be given medal, certificate and gold coins during convocation. Apart from this, students can take books from both central library and departmental library to enhance their knowledge.
- To enhance academic excellence, subject wise question bank with solved answers, focusing on previous year university question paper is prepared by the faculty members and shared among student community. In addition to this, subject wise notes are provided to all students. Apart from this, faculty members prepare Part A, Part B, Part C questions with answers and share it to all students.
- To bridge the gap between the academic and industry need, Value Added Courses (VAC) are conducted regularly in our College. It is important for higher education institutions to supplement the curriculum to make students better prepared to meet industry demands as well as develop their own interests and aptitudes. These courses are conducted by professionals and industry experts and help students stand apart from the rest in the job market by adding further value to their resume.
- One of the best ways to improve your academic performance is to establish a study routine. A time everyday is set aside to read textbooks, review notes, and work on homework assignments. Hence, our college has established study time for hostel students between 6.00 to 8.00 PM. Faculty members will go to hostel and will clarify the doubts in their respective subjects. For day scholars,

to improve academic performance, 3.00 to 5.00 PM are set aside as study time where they will be trained on previous year question paper etc.

- In pursuing the Vision of the college, Achievers day will be conducted every year to motivate the students who have been placed through campus. In Achievers day celebrations, as a token of recognizing the efforts of the students who excelled in various academic competitions and placement, students will be given offer letter, certificate etc.
- To empower students, and the more to get to know about the students on a personal level, students are given counseling during counseling session to make them feel mentally healthy to achieve current academic success and future career success.
- For college students, motivation is a major concern. Thus, to keep the students motivated, “Jeppiaar Power Talk” is conducted by student development cell where eminent personalities from different field will be invited to deliver their thoughts on life.
- Jeppiaar Engineering College has more than 40% of the faculty strength qualifying with doctoral degrees (PhD) whose knowledge is transmitted to students, which helps in achieving academic excellence. Further, our college faculty members completed National Programme on Technology Enhanced Learning (NPTEL) online certification courses approved by AICTE which enabled teachers to take cutting-edge courses such as Block Chain Management, IoT in turn which helps the student community at large.
- A motivated teacher is crucial for a successful class. Jeppiaar Engineering College respects each teacher by valuing their contribution in achieving academic excellence by rewarding them with medal, certificate and cash prize for achieving 100% result in their respective subject.
- Engineering college cut off score is drastically decreasing in the past five years. Our college cut off scores has seen a decreasing trend from 180 to 150 now. Irrespective of the cut off scores of the students who get admitted in our college, students are moulded to achieve academic excellence so that they get university ranks and come out with flying colours which help in achieving the motto of our founder. Late. Col. Dr. Jeppiaar former Chairman “Entry is not important, Exit is important”. Thus, Jeppiaar Engineering College has proved itself in achieving its academic excellence, as the college is listed in top 10 out of 525 Engineering Colleges in TamilNadu since its inception.
- Though the cut off marks at the entry level show a downtrend during the last 5 academic years, the number of university rank holders and the overall pass percentage of students are on the rise which is clearly indicative of most innovative teaching learning methodologies that have been adopted in order to achieve academic excellence.

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 :

The Institution continuously strives for the betterment of students and has signed an agreement with M/s. Letzconnect Technologies an educational networking portal that offers 'knowledge connectivity' to students. This educational networking portal works in Android app and offers recent and advanced courses from Udacity.

The Institution helps the students to define their goals and commits to continuous professional development and helps them to improve their soft skills to face and embrace challenging work environments. To obtain this, business tycoons and successful entrepreneurs, IAS and IPS officers are invited to address the student community and discuss their pathways to success.

The Institution has a sports academy, registered as Jeppiaar Sports Academy to accommodate students from rural areas with full tuition fee waiver and with free accommodation for promoting sports activities.

The Institution is self – supportive and self – sufficient in its resources, operations, governance and execution.

Concluding Remarks :

- Autonomous status to refine curriculum, to satisfy the needs of ever-increasing and demanding industry requirements.
- Intake of quality students with a quest for engineering knowledge, skills and attitude.
- Tie-up with Industries to provide trainings and skill development workshops, enabling the Institution to generate employable engineering graduates
- Exchange programmes for faculty and students to inculcate diversified learning and practices.